UNIVERGE SV9500

DT820C
USER'S GUIDE

Before using this product and document, please read the following document carefully.
Also, please keep this document to the place where you can see any time.

- UNIVERGE SV9300/SV9500 Safety Precautions and Regulatory Notices for DT800/DT400 Series (GVT-034084-001)

The latest version of document can be downloaded from the following URL
https://mind.bcom.nec.co.jp/customernet/safety-info/table_t.html

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For Customers in Australia

Telephone receivers produce magnetic fields that can attract small metallic objects such as pins or staples. To avoid injury, do not place the handset where such objects can be picked up.

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The terms and conditions of SLA are not applied to such third party open source software components.

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1. INTRODUCTION

MODEL LINE UP OF DT820C SERIES

The followings are the model line-up by the types of terminals.

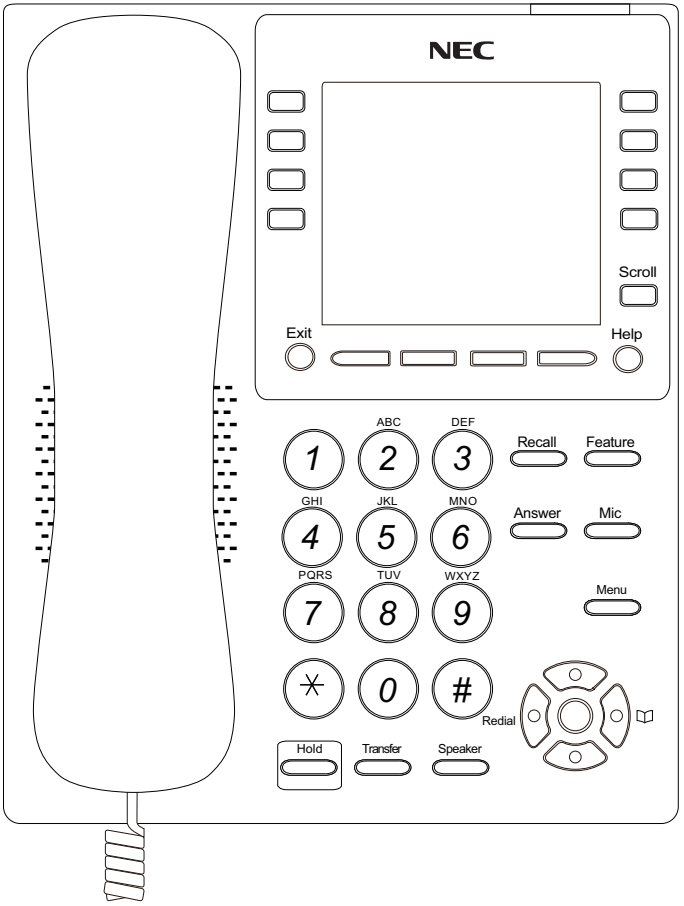
- **ITY-8LCGX/ITY-32LCG**

Model Name	Description	Market Countries
ITY-8LCGX-1	8/32 button (programmable keys) type DESI-less terminal supporting Gigabit Ethernet Note1	North America
ITY-8LCGX-1P	8 button (programmable keys) type DESI-less terminal supporting Gigabit Ethernet	EMEA, Asia
ITY-8LCGX-1P for China	8 button (programmable keys) type DESI-less terminal supporting Gigabit Ethernet	China
ITY-32LCG-1P	32 button (programmable keys) type DESI-less terminal supporting Gigabit Ethernet	EMEA, Asia
ITY-32LCG-1P for China	32 button (programmable keys) type DESI-less terminal supporting Gigabit Ethernet	China
ITY-32LCG-1A	32 button (programmable keys) type DESI-less terminal supporting Gigabit Ethernet	Australia

Note1 The number of programmable keys can be set by the terminal license setting. For details, contact the system administrator.

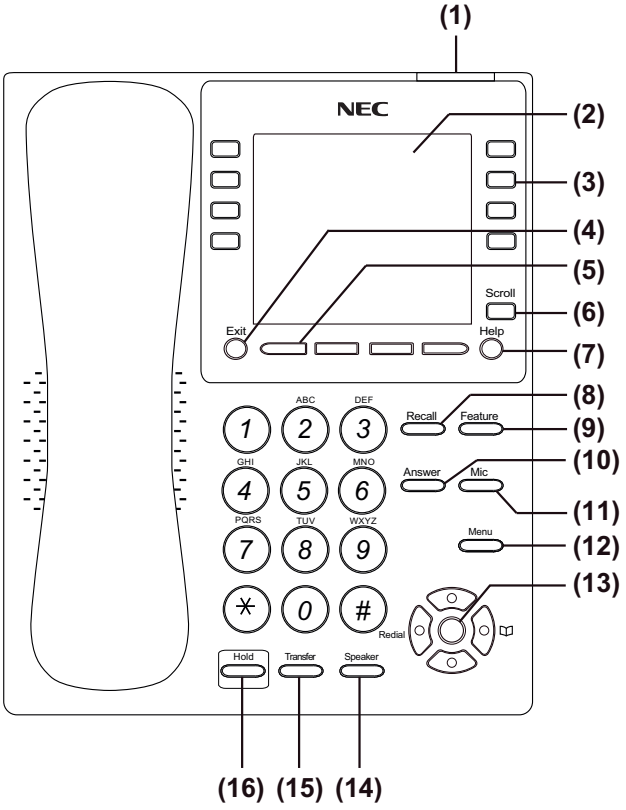
FACE LAYOUT

ITY-8LCGX/ITY-32LCG



KEYS AND PARTS

Here explains keys and parts of DT820C Series taking ITY-8LCGX as an example.



(1) Call Indicator Lamp

Lamp at the top corner of DT820C Series Display flashes when a call terminates to the terminal. Also, when Voice Mail service is available, the Lamp lights to indicate there has been a message.

(2) LCD

LCD (Liquid Crystal Display) provides DT820C Series activity information plus date, time and soft key Operation.

(3) Programmable Keys

These keys can be programmed as Flexible Line key/Programmable Feature Key by Telephony Server administrator.
When Telephony Server administrator sets “One-Touch Speed Dial key” on the programmable keys, you can assign any numbers (ex. Telephone number, etc.) to the key.

* For the assignment of the keys, contact your Telephony Server administrator.

(4) Exit

To exit Menu or Help mode and go back to the time display.

(5) Soft Keys

Any feature shown at the bottom of the LCD is available. The appropriate feature key is displayed on the screen according to the call handling process.

(6) Scroll Key

Press this key to switch the page which indicates

the name of programmable keys.

Note: This key is supported for ITY-8LCGX-1 and ITY-32LCG-1P only. For ITY-8LCGX-1P, this key is not available.

Note: For ITY-8LCGX-1, this key is available only when the terminal is used as 32 button type (page 1 to 4). For 8 button type, this key is not supported.

(7) Help

Explanations of the soft keys can be called up on the LCD by pressing this key.

(8) Recall

Press this key to finish the call and hear the dial tone.

(9) Feature

Used to activate any features as terminal setup functions, and to program One-Touch Speed Dial Keys.

Function Key Activities

Feature + 0 = Side Tone On/Off (for handset)

Feature + 1 = Turns microphone on or off.

Feature + 7 = Turns call indicator lamp on or off for incoming call notification (If turned off, this lamp will still light to indicate message waiting.)

Feature + 8 = Selects between Normal, Dynamic Dial Pad, and Preset Dial.

(10) Answer

When LED on this key is lit, press this key to answer a waiting call.

(11) Mic

Press this key to respond hands-free. LED on this key lights during speaker phone operation.

(12) Menu

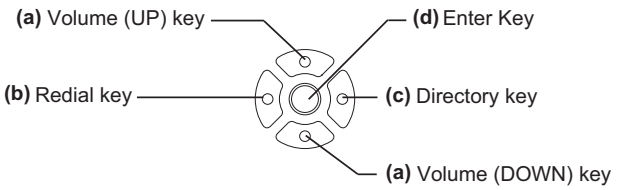
To display the setting menus of DT820C Series, such as Setting and Config.

(13) Cursor

By using this key, DT820C Series user can access to various features with a simple operation.
Also, this key is used as a cursor-movement key on the Menu screen.

	Up	Move the highlighted area one line up the screen.
	Down	Move the highlighted area one line down the screen.
	Left	Go back to the previous screen.
	Right	Go to the screen which corresponds to the highlighted menu item.
	Enter	Go to the screen which corresponds to the highlighted menu item.

Details on Cursor key



(a) UP/DOWN

Used to adjust LCD contrast, speaker/receiver volume, and ringer volume.

- LCD Contrast:
  Press the UP/DOWN key while an idle state.
- Speaker/Receiver Volume:
  Press the UP/DOWN key during conversation.
- Ringer Volume:
  Press the UP/DOWN key during ringing.

(b) Redial

(Last Number Call, Speed Calling-Station/Group)
Press this key to activate redial feature. Press redial and scroll back through numbers that have been dialed. When the desired number is displayed, press the * or # key to activate dialing.

Note: A-law Countries [Europe, Australia, Russia, Latin America, Middle Near East, other Asian nations]: #
μ-law Countries [North America, Hong Kong, Taiwan]: *

(c) Directory

Pressing this key opens Phonebook while the station is in an idle state. For details, see 6.DIRECTORY OPERATION.

(d) Enter

DT820C Series have a shortcut menu for frequently-used features. Use this key to display the shortcut menu (see PROGRAMMABLE FEATURE KEYS) and determine the selected item in the menu.

(14) Speaker

Controls the built-in speaker which can be used for hands-free dialing/monitoring.
LED on the key lights when this key is active.

(15) Transfer

Allows the station user to transfer established calls to another station, without attendant assistance.

(16) Hold

Press this key to place an internal or external call on hold.

MENU

From the **Menu** key, you can display the configuration menu.

To Display Menu List

STEP 1: Press (Menu) key while indicating the current time on LCD. The Menu List is displayed in LCD. Use Cursor Key to select the desired Menu Item. You can also select the Menu Item directly using digit keys.

Main Menu for DT820C (ITY-8LCGX) without XML application

Main Menu for DT820C (ITY-8LCGX) with XML application

Menu Item	Digit key to select	Description
History	1	To use Call History features. For details, see 7.CALL HISTORY OPERATION.
Directory	2	To use Directory features. There are the following two types of directory features. • Personal Directory: Controlled by the terminal. For details, see 6.DIRECTORY OPERATION. • Phonebook: Controlled by the system. For details, see PHONEBOOK in chapter 5. • Corporate Directory: Controlled by the external XML server. For details, please contact the system administrator.
Service	3	To access external XML server. For details, please contact the system administrator. **Note:** This icon appears only when XML service is used.
Setting	4	To control settings for ringing volume, LCD display, and music on hold. For details, see SETUP WITH MENU KEY FOR DT820C SERIES.

Menu Item	Digit key to select	Description
Phone Portal	⑤	To switch from Main Menu to the Portal screen or Phone screen (time indication screen). • When Home URL is registered, Portal icon appears. • When Home URL is not registered, Phone icon appears. For details, please contact the system administrator.
XML-1	⑥	To display XML application 1 screen. This icon is displayed when an XML application starts with a new window.
XML-2	⑦	To display XML application 2 screen. This icon is displayed when an XML application starts with a new window.
XML-3	⑧	To display XML application 3 screen. This icon is displayed when an XML application starts with a new window.
Phone	Soft Key 1	To switch from application screen to phone screen (Time Indication screen).
Home	Soft Key 2	XML application screen registered in the home URL is displayed. When the home URL is not registered, Home URL icon is not displayed.
Return	Soft Key 4	To close the main menu and go back to the previous screen.

Note: A Portal screen is the home (entrance) screen of the phone. When you use multiple XML applications, the URL that is registered as the home URL is the Portal screen: this is where other XML applications can be accessed.

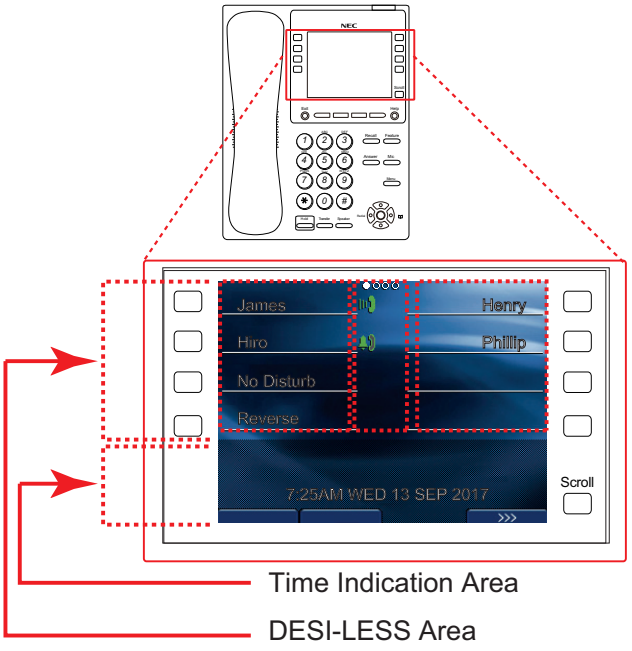
DISPLAY

ITY-8LCGX/ITY-32LCG

These terminals provide 8/32 programmable keys. Also, information set to each programmable key is displayed on DESI-less screen. For setting of the programmable key, contact Telephony Server administrator.

When Telephony Server administrator sets “One-Touch Speed Dial key” on the programmable keys, you can assign any numbers (ex. Telephone number, etc.) to the key (see TO ORIGINATE A CALL USING SPEED CALLING (ONE-TOUCH SPEED CALLING KEYS) and TO REGISTER NAME ON ONE-TOUCH SPEED CALLING KEY in Chapter 5).

Note: The number of programmable keys depends on the terminal license setting or terminal model. For details, contact the system administrator.



(a) Icon

Status information on the Line key such as Call termination, Call Hold or Busy can be indicated as following Icons.

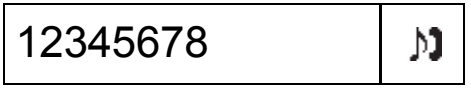
User Status	Icon	Flashing Pattern
• Idle	No Icon	-
• Call Hold (Individual Hold/Individual Hold on Call Park Group) • Call Forwarding-All Calls (When “Call Forward Line Lamp Indication” feature is set)		Blink
• Call Hold (Other Party Hold/Other Party Hold on Call Park Group)		
• Recall (Individual Hold/Exclusive (Call Hold/Call Transfer/Individual Hold on Call Park Group)		
• Receiving an Incoming Call		
• During Conversation (Individual Use) • Call Transfer • Conference		Steady Lit
• During Conversation (Other Party Use) • Active Feature (Under a setting of feature key like a “Call Forwarding”)		

(b) Programmable Key Information

Key	Description	Maximum digits to be displayed
Line Key	- Name and Number information	8 digits
One-Touch Speed Dial Key	- Speed Dial Name Information - Number Information	8 digits
Feature Key	- Feature Name	11 digits

(c) Programmable Key Indication

The following shows LCD indication of Programmable keys.



- OR -

Appropriate icons are displayed according to the feature. These displays cannot be changed by user.

The following shows each LCD indication when an One-Touch Speed Dial key is set to any Programmable key.

When a Station line/Trunk line is assigned.

12345678

- OR -

PETER

No icons are displayed.
* You can register name on each One-Touch Speed Dial key. For the procedures, see TO REGISTER NAME ON ONE-TOUCH SPEED CALLING KEY in Chapter 5.

When any feature using feature access code is assigned.

CF-AllCalls

Black square icons are displayed.
* You can register name on each One-Touch Speed Dial key. For the procedures, see TO REGISTER NAME ON ONE-TOUCH SPEED CALLING KEY.

(d) Page Icon
DESI-less screen has four pages (8 programmable keys per page). On the center of above the LCD, page Icon key indicates the page currently displayed. You can switch the page of programmable key by using **Scroll** key.

	This icon indicates the page which is currently displayed on LCD.
	This icon indicates the page which is currently not displayed on LCD.

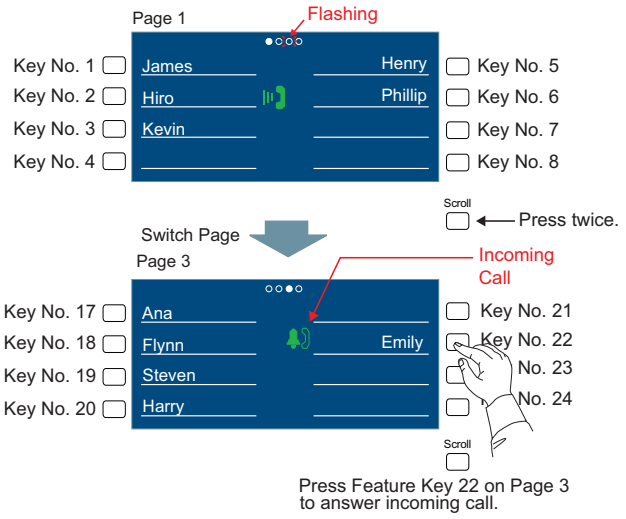
(e)Scroll Key

This key is used to turn over the page of DESI-less screen.

Note: The following key operations are not available while DESI-less screen is displayed.

- Soft Key
- Help Key
- Exit Key
- Right-cursor key and Left-cursor key

Example: Page Turning by Scroll Key



Note: For example, when an incoming call is terminated to a line key on Page 3 while Page 1 is being displayed on the screen, the screen is not automatically switched from Page 1 to Page 3. Then, you must display Page 3 manually and answer the call.

PROGRAMMABLE FEATURE KEYS

These are examples of DT820C Series features available by pressing the programmable keys. Some features using feature access code may be programmed by the user. Others must be programmed by the telephone system administrator.

Programmable Feature keys have a built-in LED (Light Emitting Diode) that lights or flashes according to the activity of the Feature key.

AICM:
Press the key to activate “Automatic Intercom”.

DICM:
Press the key to activate “Dial Intercom”.

NoDist (Do Not Disturb):
Press the key to activate or cancel “Privacy” feature.

CF-All:
Press the key to activate or cancel “Call Forwarding – All Calls” feature.

CF-Busy:
Press the key to activate, verify, or cancel “Call Forwarding – Busy Line” feature.

CF-NoAns:
Press the key to activate, verify, or cancel “Call Forwarding – Don’t Answer” feature.

MICM:
Press the key to activate “Manual Intercom”.

MSG (Message):
Press the key to leave message indication at station in no answer or busy condition.

MSG Wait:
Press the key to leave a message waiting indication on boss' station from secretary's station.

no MSGwt:
Press the key to cancel a message waiting indication on boss' station from secretary's station.

Priv.Rel:
Press the key to release "Privacy" feature.

Save&Rep (Save and Repeat):
Press the key to store a number or redial a stored number.

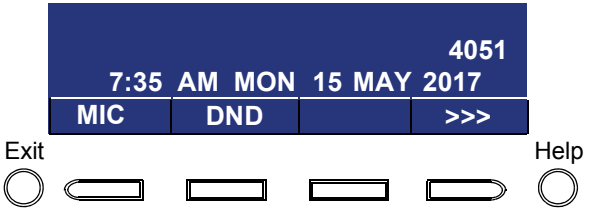
Signal:
Press the key to cause chime at predetermined station.

SPD Name:
Press the key to register name for the key to **One-Touch Speed Calling** key. This key is used on DESI-less only.

MULTILINE APPEARANCE:
You can see the caller information (such as a caller ID or a name) using the programmable key (which is programmed for a multiline by the system administrator) during an incoming call. For details, see MULTILINE OPERATION in Chapter 4.

SOFT KEYS

The Soft Keys on the DT820C Series provide a set of functions on the LCD that adapt to the changing state of the telephone. While default soft key settings are provided, desired functions can be assigned to individual stations as required. The soft keys, at the bottom of the LCD, can display the names of available functions, names of user-assigned functions and names of functions assigned by a specific soft key pattern. Displayed soft keys can vary, depending on the state of the phone and/or when the Next/Previous key is pressed.

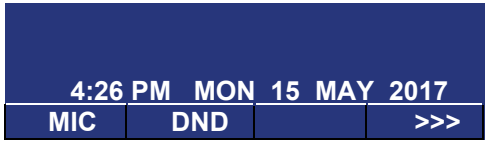


Default Displays for Each Status

Default soft key settings are provided corresponding to particular functions. Different soft key settings are displayed at the bottom of the LCD depending on the status as follows:

Different patterns of soft key settings can be registered for individual call status and assigned to individual terminals as required.

IDLE

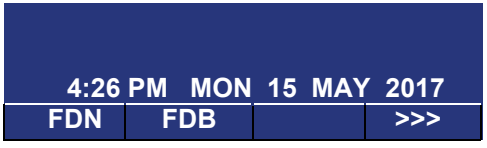


DIAL TONE/DIALING

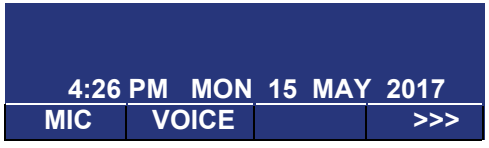
(1)

Push >>>

(2)

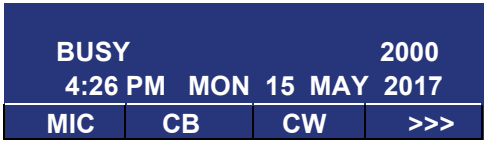


RINGING



BUSY

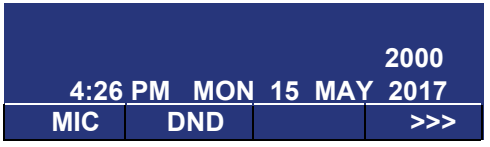
(1)



Push >>> to switch the page

(2)

CONNECTION



CONSULTATION HOLD

Soft Key Features

When the soft key corresponding to a desired feature name is operated, the selected feature name starts to blink on the LCD. The blinking display of available features takes precedence over the display of features specified by the soft key pattern.

Note: The soft keys can be programmed in System Data to blink, remain steady, have no indication, or display a character when either in use or idle.

The following shows the default display patterns of main features.

FDB (Call Forwarding - Busy Line)
Permits a call to a busy station to be immediately forwarded to a predesignated station.

FDA (Call Forwarding - All Calls)
Permits all calls designated for a particular station to be routed to another station regardless of the busy or idle status of the called station.

FDL (Logged Out IP Station - Call Destination)
Enables a system to transfer the call to an appropriate station when the terminal whose LOGGED OUT IP STATION - CALL DESTINATION has already been registered is in logout status.

E-OVR (Executive Override)
Enables selected station users, upon encountering a busy condition at an internal station, to bridge into the busy connection.

CW (Call Waiting)
Enables a busy station to receive a second incoming call. A camp-on indication tone is sent to the busy station, and you can use a switchhook flash to answer the second call.

CB (Call Back)
Provides the ability for a calling station to set a CALL BACK. The calling station will be rung as soon as the busy station becomes available.

S&R (Save and Repeat)
Allows a station to save a specific dialed number and then redial that number later.

MW SET (Message Waiting - Set)
Allows a station to set a Message Waiting indication or lamp.

C_HOLD (Call Hold)
Permits a station user to hold a call in progress and to return to the previously held call.

MWOFF (Message Waiting - Cancel)
Allows a station to cancel a Message Waiting indication or lamp.

PICK (Call Pickup - Group)
Permits a station user to answer any calls directed to other lines in the user's preset Call Pickup Group.

CONF (Three-way Calling)
Enables a station user to establish a three-way conference by connecting an additional party to an already existing conversation.

VOICE (Voice Call)
Enables you to make a call to the called party's built-in speaker. If the called party's MIC is on, the called party can converse on hands-free.

S-SPD (Speed Calling - System)
Allows a station user to call certain frequently dialed numbers using fewer digits (abbreviated call codes) than would normally be required.

CAS (CAS-Switch Hook Flash)
Allows you to send a switchhook flash while on an outside trunk.

UCDBO (UCD Busy Out)
Allows a station user to block UCD calls and to cancel Busy Out.

FLASH (Flash)
Provides the station with a switchhook flash.

FDN (Call Forward - No Answer)
Permits a call to an unanswered station to be forwarded to a predesignated station if the called station does not answer within a predetermined period of time.

C_RPT (ISDN Malicious Call Trace)
Allows you to initiate a Call Trace on ISDN calls only.

G_SPD (Speed Calling - Group)
Allows a station user to share a set of common Speed Calling numbers with other station users in the group.

P-RLS (Privacy Release)
Allows another station user to press a busy line key and enter the conversation of a station user already engaged in communication.

DND (Do Not Disturb)
Allows a station user to deny access to the station line for incoming calls.

MIC (Microphone On/Off)
Allows you to turn the microphone on and off for use with the speakerphone. LED on the Mic key illuminates when the Microphone is on.

BPAGE (Button Page)
Allows you to toggle between pages when two numbers are registered on One-Touch Speed Calling key.

HSET (Headset)
Allows you to go off-hook and on-hook when using the headset.

RLS (Release Key)
Allows you to release the current call when using the headset, without waiting for the party to hang up.

SIG (Manual Signaling)
Permits station users to send a one-second ring to a predetermined station. If the signaled station is ringing from another call, the manual intercom signal will interrupt that ringing.

CKEEP (Eight-Party Conference Retrain)
Allows all outside parties to stay on a conference when all internal parties hang up.

SCALL (Serial Call)
Allows you to set Serial Call for the caller before extending the call, allowing the caller to receive an announcement at the end of the call guiding the caller to dial the next number and subsequent numbers.

IZP (Internal Zone Paging)
Allows a user to make a voice call through the speakers of the designated group.

IDCHG (Call ID Change Display)
Allows you to toggle between standard display and an alternate display.

GPICK (Call Pickup - Group Enhancement)
Allows you to answer any ringing station within your expanded call pickup group.

CH Conf./CHCNF (Call Hold - Conference)
Allows a station user to establish a conference connection by adding a third party, who is held on another line, to the existing two-party connection.

VISIT (Survivable Remote MGC)
Allows a station to indicate a status: when a user is in remote office, VISIT will be blinking. After recovering the main office, VISIT will return to light.

RMUTE (Ringer Mute)
Allows a station user to mute or recover station ringing.

SPDSET (One-Touch Speed Calling)
Allows you to add, edit, or delete the One-Touch Speed Calling key.

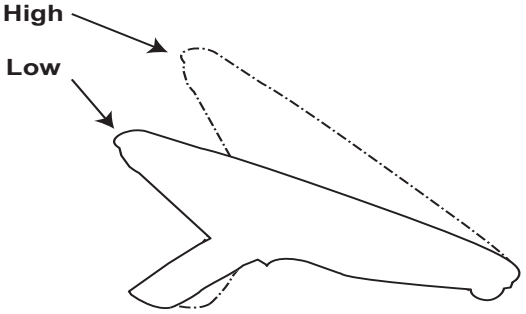
>>> (Display Function Next Page)
Allows you to scroll to the next screen.

<<< (Display Function Previous Page)
Allows you to scroll to the previous screen.

2. Installation Procedure

ADJUSTING ANGLE OF TILT LEG

The angle of the tilt leg can be adjusted in two levels.

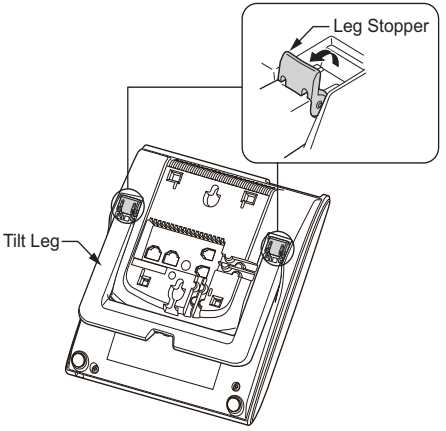


- **High Position Setting**

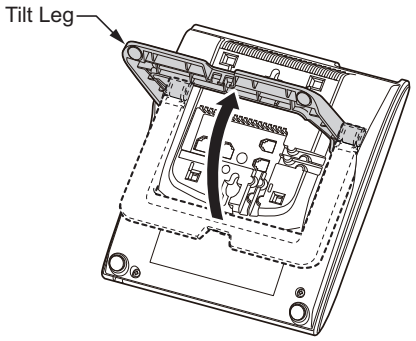
Turn the telephone over (button side down).

STEP 1:

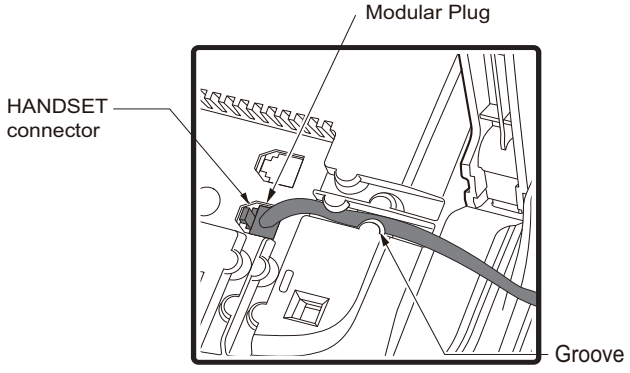
STEP 2: Pull up the leg stoppers.



STEP 3: Adjust the angle of the tilt leg by pulling the leg in the direction of the arrow. The leg clicks when it is in position.



STEP 4: Lead the Handset cords through the applicable grooves.

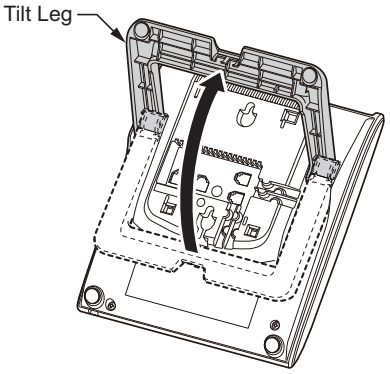


STEP 5: Turn the telephone over again (button side up).

- **Low Position Setting**

STEP 1: Turn the telephone over (button side down).

STEP 2: While lifting the center of the stopper, push the tilt leg in the direction of the arrow. The leg clicks when it is in position.



STEP 3: Lead the Handset cords through the applicable grooves (See STEP 4 of High Position Setting for the detail diagram).

STEP 4: Turn the telephone over again (button side up).

CONNECTING LAN CABLE

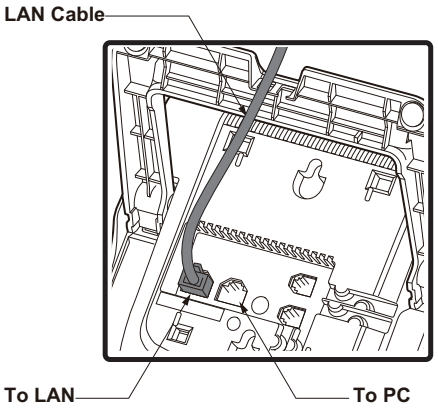
STEP 1: Prepare the LAN cables (Straight) according to the communication velocity for connecting the telephone to PoE Switch.

Note: The availability of Gigabit Ethernet depends on the terminal license setting or the terminal model. For details, contact the system administrator.

Note: 1000 BASE-T is available when Gigabit Ethernet is enabled.

STEP 2: Connect the telephone to the network device using the LAN cable.

STEP 3: Thread the LAN cable on the back of the telephone.



3. TERMINAL SETUP

This chapter describes operating procedures for terminal settings with the **UP/DOWN** ( ) key, the **Feature** key and the **Menu** key.

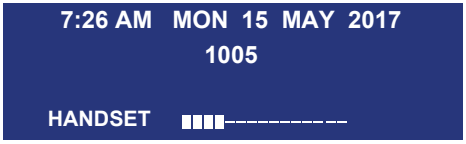
Various terminal settings such as display, sounds, password, and language are also available from the **Menu** key.

SETUP WITH UP/DOWN KEY

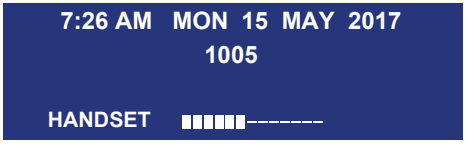
- **TO ADJUST HANDSET RECEIVER VOLUME**

Press the **UP/DOWN** ( ) key in the off-hook status or during the call.

LCD indication for North America, Latin America, Asia, Middle East and Russia

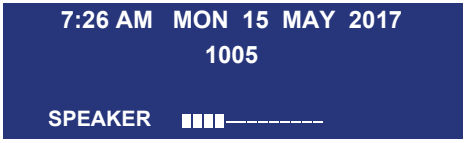


LCD indication for Australia



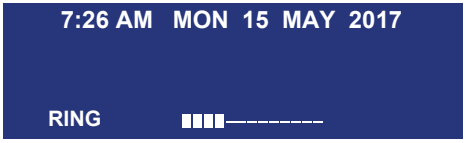
- **TO ADJUST SPEAKER VOLUME**

Press the **UP/DOWN** ( ) key during speaker phone operation or during the call.



- **TO ADJUST RINGER TONE**

Press the **UP/DOWN** ( ) key during ringing.



- **TO ADJUST LCD CONTRAST**

Press the **UP/DOWN** ( ) key in the on-hook status.

Note: For details of configuration setting, please contact the system administrator.

DISPLAY ENLARGED CHARACTERS

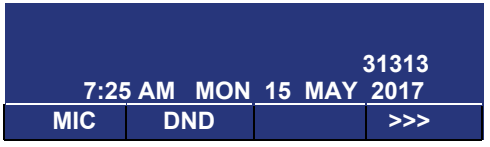
This feature enables to display characters height as a double height size for the terminal information on the LCD. The indication of enlarged characters is available for 2nd line or 3rd line on the LCD. The line displayed as enlarged characters can be switched by using the Line/Feature Key for “Display Enlarged Characters”.

Note: The feature key of “Display Enlarged Characters” is assigned at installation. For details, contact the system administrator.

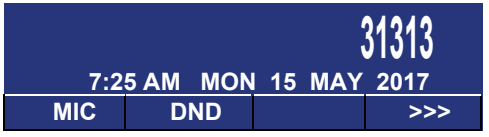
• To Switch the Line Indicating Double Height Characters

By pressing the Soft Key or the Line/Feature Key, you can switch the characters displayed to double height size in the order of "Enlarged Characters (2nd line)" → "Enlarged Characters (3rd line)" → "No Enlarged Characters". The following shows an example when using this feature.

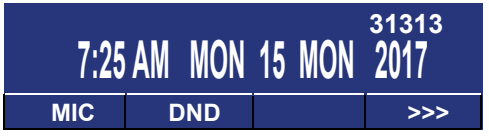
- No Enlarged Characters



- Enlarged Characters (2nd line)



- Enlarged Characters (3rd line)



SETUP WITH FEATURE KEY

• MICROPHONE ON/OFF

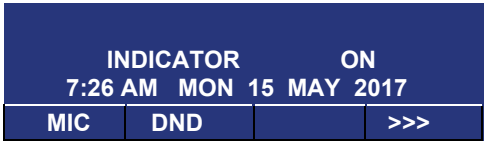
LED on the **Mic** key shows the status of the built-in microphone.

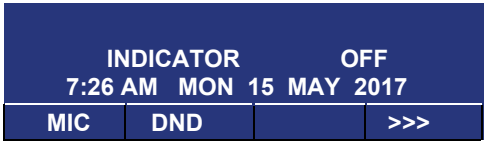
STEP 1: Press the soft key associated with the **MIC** on the LCD or press the **Feature** key and (1) key.

• CALL INDICATOR LAMP ON/OFF

You can choose to turn the call indicator lamp either on or off while the terminal is ringing.

STEP 1: Press the **Feature** key and (7) key. The LCD displays:





Note: The call indicator lamp lights when used as a Message Waiting Lamp, even when it is turned off by the above operation.

• SELECT DIAL MODE

You can select one pattern from Normal, Dynamic Dial Pad or Preset Dial to originate a call.

When only Dynamic Dial Pad is activated:

To Set/Reset Dynamic Dial Pad

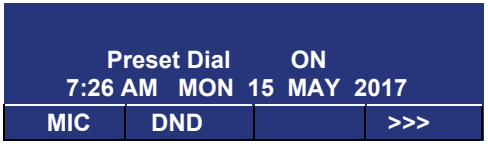
STEP 1: Press the **Feature** key and (8) key. The LCD displays:

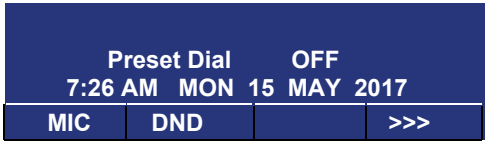
Note: When this feature is ON, you may initiate a call by immediately dialing the number and the station will go hands-free off-hook automatically. For details, see TO ORIGINATE A CALL USING SELECTIVE DIALING (DYNAMIC DIAL PAD, PRESET DIAL) in Chapter 5.

When only Preset Dial is activated:

To Set/Reset Preset Dial

STEP 1: Press the **Feature** key and (8) key. The LCD displays:



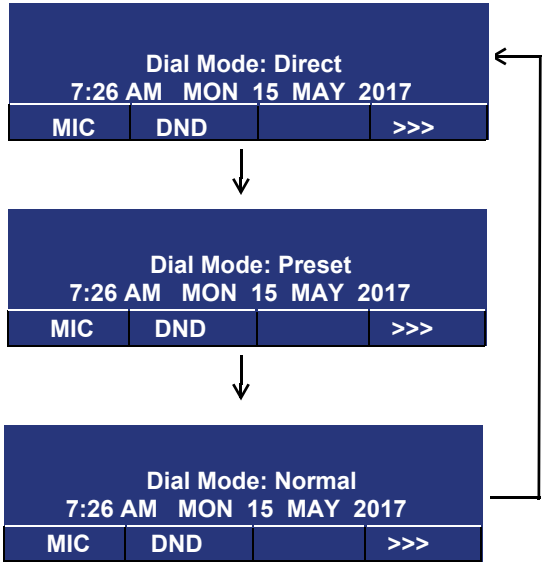


Note: When this feature is ON, you may initiate a call by pressing **Speaker** Key or going off-hook after dialing the number. For details, see TO ORIGINATE A CALL USING SELECTIVE DIALING (DYNAMIC DIAL PAD, PRESET DIAL) in Chapter 5.

When both Dynamic Dial Pad and Preset Dial are activated:

To Set Dial Mode

STEP 1: Every time the **Feature** key and (8) key are pressed, Dial Mode switches. The LCD displays:



SETUP WITH MENU KEY FOR DT820C SERIES

• TO ENABLE/DISABLE OFF-HOOK RINGING

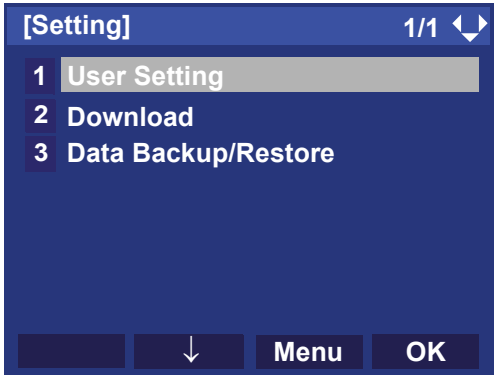
The procedure below shows how to enable/disable Off-hook ringing

STEP 1: Display the **Menu** screen, and select 1 **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

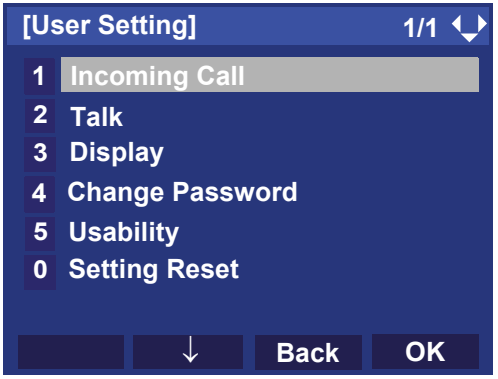
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 1 **Incoming Call**.

Select an item by either of the following operations.

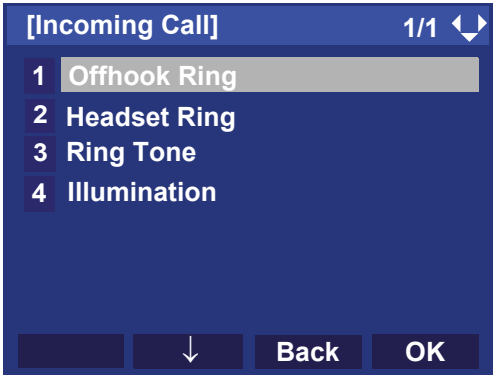
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 4: Select 1 **Offhook Ring**

Select an item by either of the following operations.

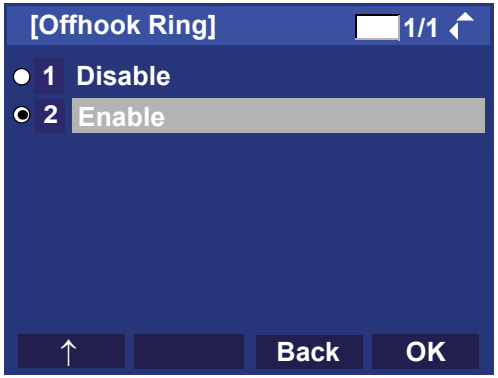
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key



STEP 5: To disable/enable the off-hook ringing, select [1] **Disable** or [2] **Enable**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (1) or (2) key, and then press or the **OK** soft key.



Note: Default setting is [2] **Enable**.

Note: The enabled item is highlighted.

• TO SET RINGING OF HEADSET

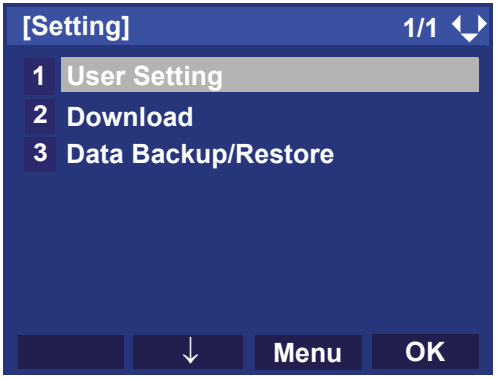
The procedure below shows how to enable/disable the ringing of headset.

STEP 1: Display the **Menu** screen, and select [1] **Setting**.

STEP 2: Select [1] **User Setting**.

Select an item by either of the following operations.

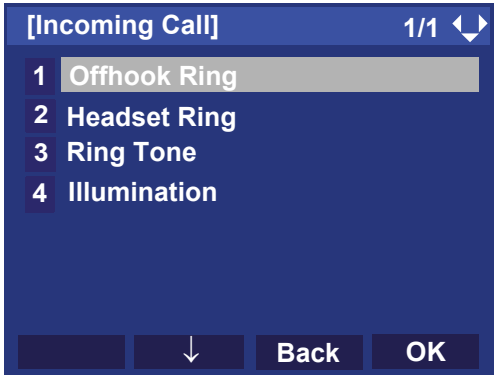
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 1 **Incoming Call**.

Select an item by either of the following operations.

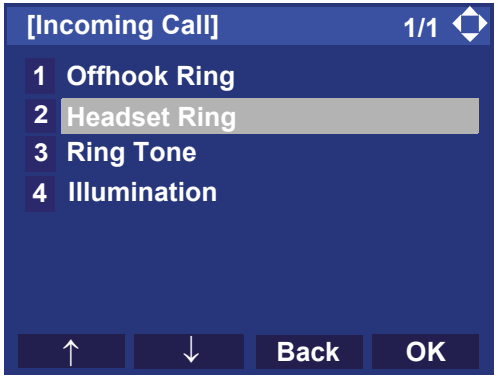
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 4: Select 2 **Headset Ring**.

Select an item by either of the following operations.

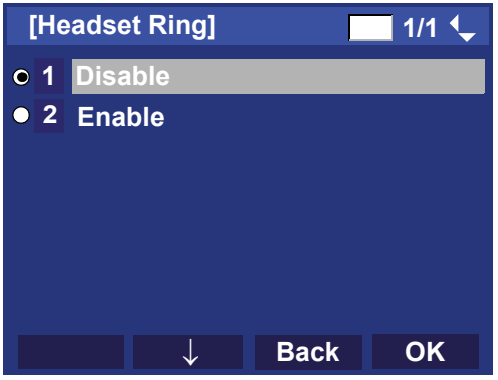
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 5: To disable/enable the ringing of headset, select 1 **Disable** or 2 **Enable**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (1) or (2) key, and then press or the **OK** soft key.



Note: Default setting is 1 **Disable**.

Note: The enabled item is highlighted.

• TO SET RINGER TONE

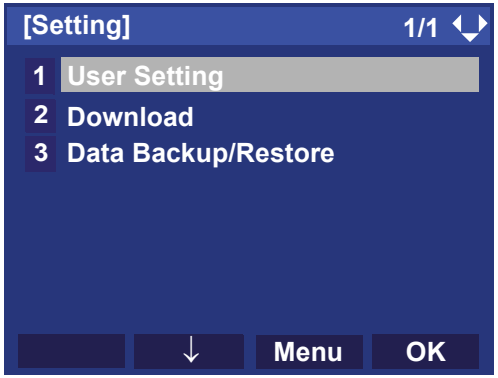
The procedure below shows how to change the ringer tone for internal call and external call.

STEP 1: Display the **Menu** screen, and select [1] **Setting**.

STEP 2: Select [1] **User Setting**.

Select an item by either of the following operations.

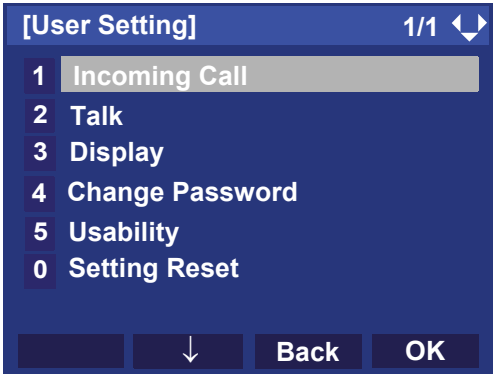
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select [1] **Incoming Call**.

Select an item by either of the following operations.

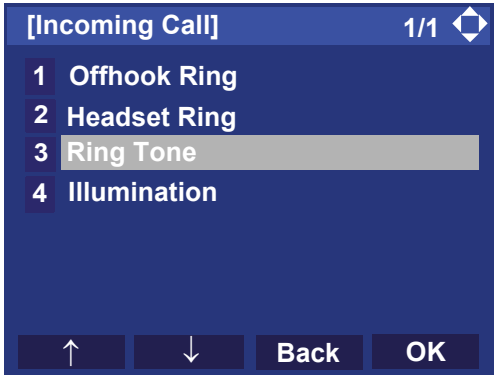
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 4: Select 3 **Ring Tone**

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 5: Select 1 **External Call** when setting the ringer tone for external calls. Select 2 **Internal Call** when setting the ringer tone for internal calls.

Select an item by either of the following operations.

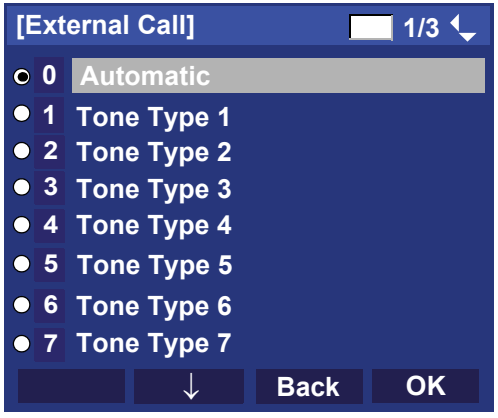
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) or (2) key.

STEP 6: Select a desired tone type. You can preview the designated ringer tone.

Select an item by either of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (0) - (9) key, and then press or the **OK** soft key.

For example, press (1) + (5) to select 15 **Download1**.

Note: The enabled item is highlighted.



No.	Menu Item	Frequency (Hz)		Remarks
		1st	2nd	
0	Automatic	520	660	16Hz modulation
1	Tone Type 1	520	660	16Hz modulation
2	Tone Type 2	520	660	8Hz modulation
3	Tone Type 3	1400	1100	Door Phone
4	Tone Type 4	1100		No modulation
5	Tone Type 5	540		No modulation
6	Tone Type 6	1100	1400	16Hz modulation
7	Tone Type 7	660	760	16Hz modulation
8	Tone Type 8	1100		Envelope
9	Tone Type 9	-		Door Phone Melody
10	Tone Type 10	-		Melody 1
11	Tone Type 11	-		Melody 2
12	Tone Type 12	-		Melody 3
13	Tone Type 13	-		Melody 4
14	Tone Type 14	-		Melody 5
15	Music Ring 1	-		C-Major Scale Ringtone
16	Music Ring 2	-		Kanon
17	Music Ring 3	-		Turkish March

Note: When selecting **Automatic** or not performing this ringer tone setting, **Tone Type 1** is automatically applied.

Note: **Tone Type 1** to **Tone Type 8:**
In the preview function, each ringer tone sounds continuously. Actual ringer pattern of each tone is determined by the initial system settings.

Note: Terminal settings may not become effective, according as the system settings. For details, contact the system administrator.

- **TO SET ILLUMINATION PATTERN FOR CALL INDICATION LAMP**

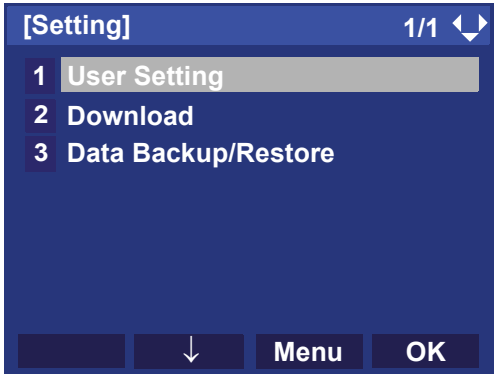
The procedure below shows how to set the illumination pattern (color of Call Indicator Lamp).

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

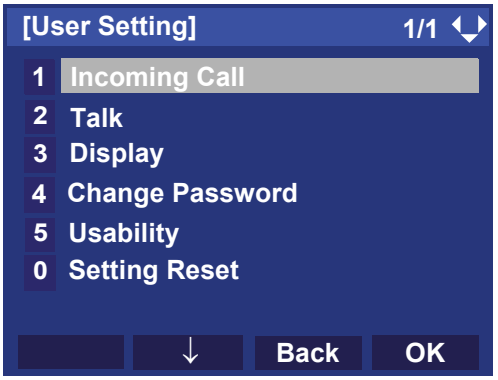
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).



STEP 3: Select 1 **Incoming Call**.

Select an item by one of the following operations.

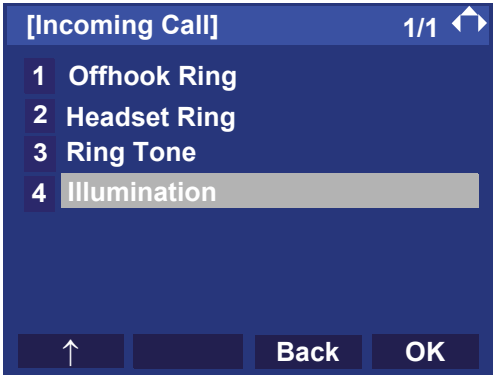
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).



STEP 4: Select 4 **Illumination**.

Select an item by one of the following operations.

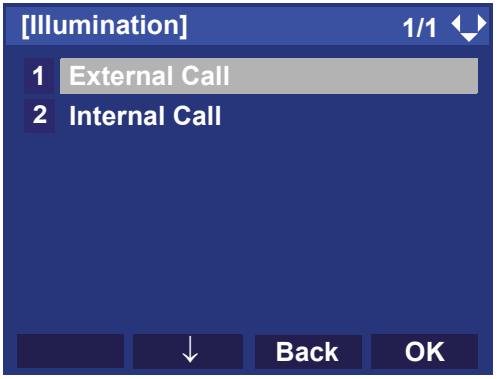
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (4).



STEP 5: Select 1 **External Call** when setting the illumination pattern for external calls. Select 2 **Internal Call** when setting the illumination pattern for internal call.

Select an item by one of the following operations.

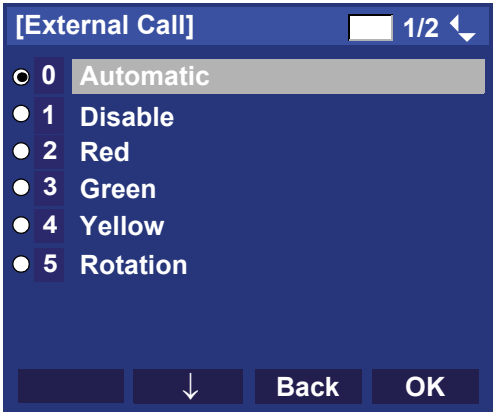
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1) or (2).



STEP 6: Select a desired illumination pattern. You can preview the designated illumination pattern.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (0) - (9), and press or **OK** key.



Note: When selecting Automatic, the preview function will not operate.

Note: When selecting Automatic or not performing this illumination setting, Red is automatically applied.

Note: You can set illumination pattern for the terminal set here. Illumination pattern can be set for "Name", "Group" and "Telephone set". The illumination pattern set for "Name" has higher priority than the patterns set for "Group" and "Telephone set".

• TO ENABLE/DISABLE RTP ALARM

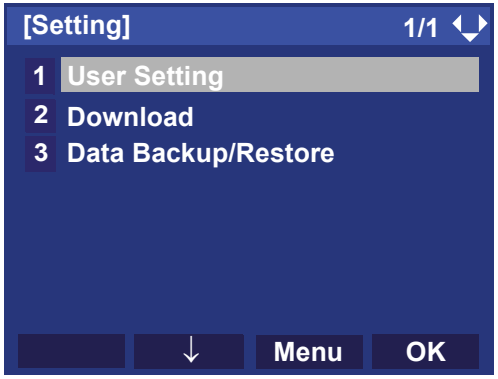
The procedure below shows how to enable/disable RTP alarm.

STEP 1: Display the **Menu** screen, and select 1 **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

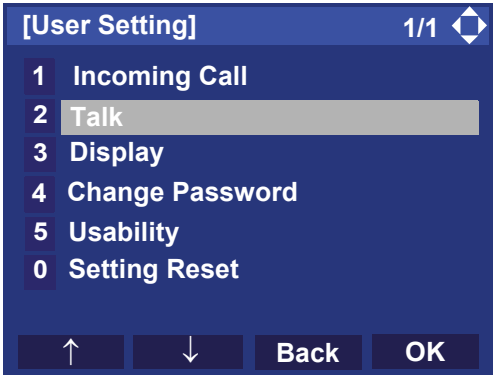
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 1 key.



STEP 3: Select 2 **Talk**.

Select an item by either of the following operations.

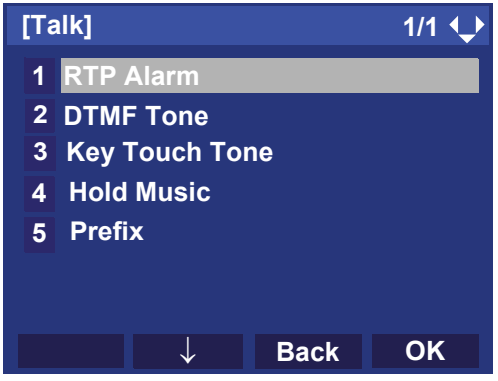
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 2 key.



STEP 4: Select 1 **RTP Alarm**.

Select an item by either of the following operations.

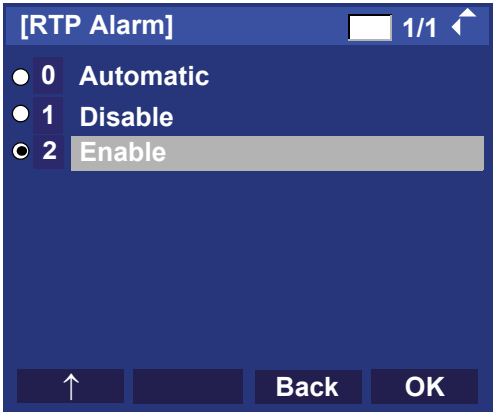
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 1 key.



STEP 5: Select [0] **Automatic**, [1] **Disable** or [2] **Enable** (see the following table).

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (0) - (2) key, and then press or the **OK** soft key



No.	Menu Items	Descriptions
0	Automatic	Follow the setting on the System. If no setting is made in the System, the default setting (Alarm=ON) is applied.
1	Disable	Follow the setting on the terminal (OFF).
2	Enable	Follow the setting on the terminal (ON).

Note: For the setting on the System, contact the system administrator.

Note: The enabled item is highlighted.

• TO ENABLE/DISABLE DTMF TONE

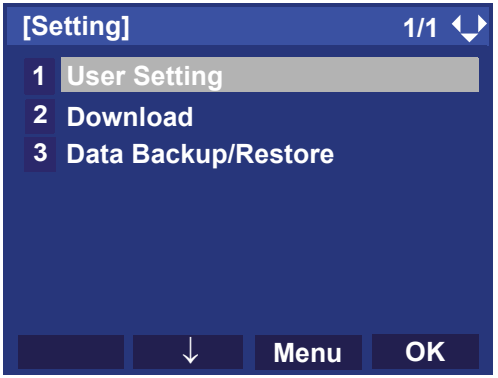
The procedure below shows how to enable/disable DTMF Tone.

STEP 1: Display the **Menu** screen, and select [1] **Setting**.

STEP 2: Select [1] **User Setting**.

Select an item by either of the following operations.

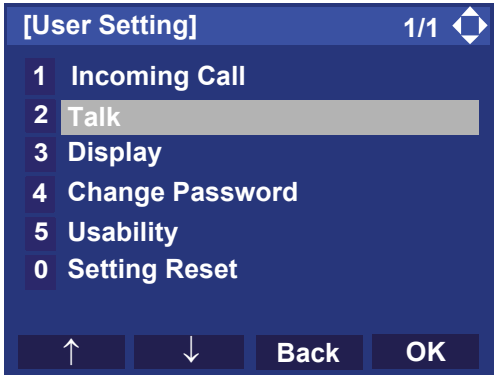
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 2 **Talk**.

Select an item by either of the following operations.

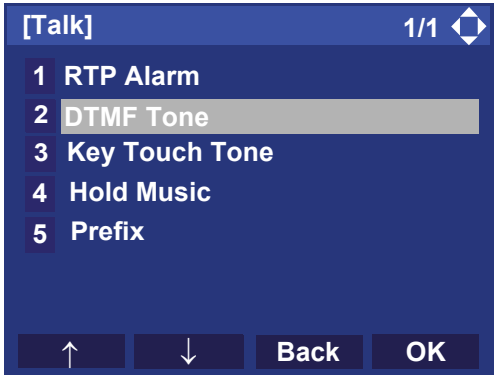
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 4: Select 2 **DTMF Tone**.

Select an item by either of the following operations.

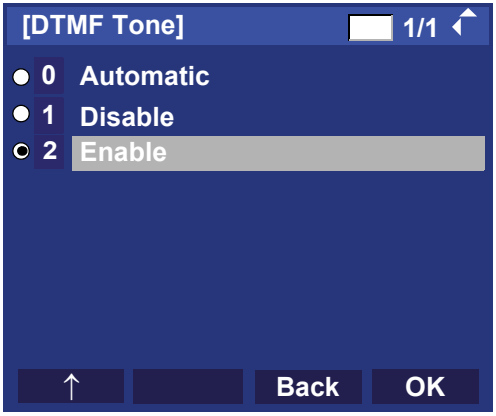
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 5: Select 0 **Automatic**, 1 **Disable** or 2 **Enable** (see the following table).

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (0) - (2) key, and then press or the **OK** soft key.



No.	Menu Items	Descriptions
0	Automatic	Follow the setting on the System. If no setting is made in the System, the default setting (DTMF=ON) is applied.
1	Disable	Follow the setting on the terminal (OFF).
2	Enable	Follow the setting on the terminal (ON).

Note: For the setting on the System, contact the system administrator.

Note: The enabled item is highlighted.

• TO SET KEY TOUCH TONE

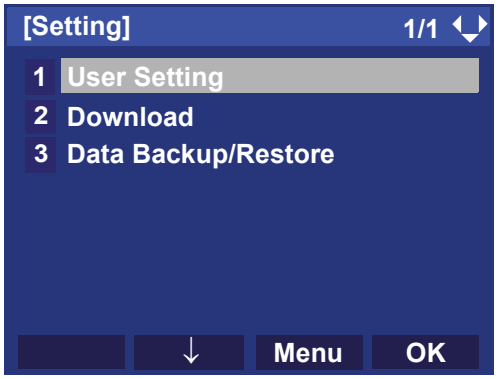
The procedure below shows how to set Key Touch Tone. Key Touch Tone is a tone generated when the digit keys are pressed while the terminal is off-hook.

STEP 1: Display the **Menu** screen, and select 1 **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

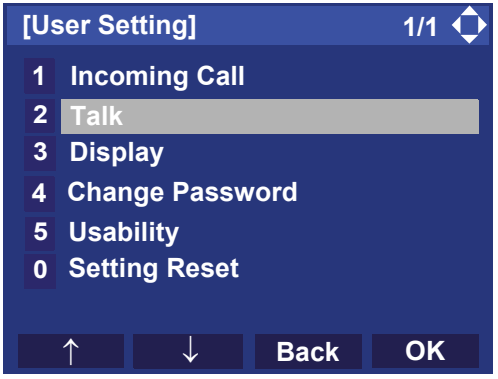
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 2 **Talk**.

Select an item by either of the following operations.

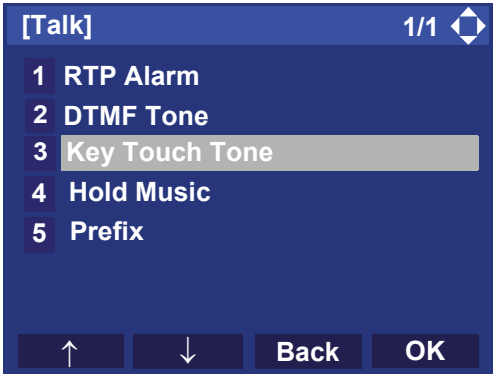
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 4: Select 3 **Key Touch Tone**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 5: Select [0] **Automatic**, [1] **Disable**, [2] **Tone** or [3] **Voice**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (0) - (3) key, and then press or the **OK** soft key.

Note: When [0] **Automatic** is set, the default setting (Tone) is applied.

Note: The enabled item is highlighted.

• TO SET MUSIC ON HOLD

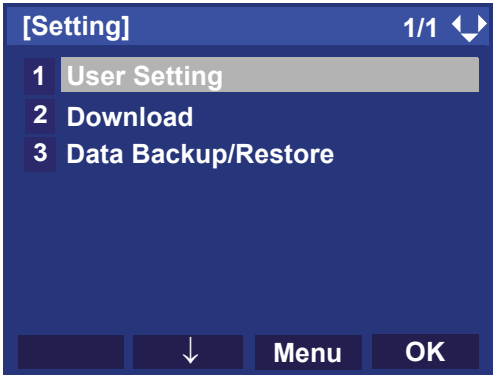
The procedure below shows how to set music on hold to be heard by the DT820C Series user.

STEP 1: Display the **Menu** screen, and select [1] **Setting**.

STEP 2: Select [1] **User Setting**.

Select an item by either of the following operations.

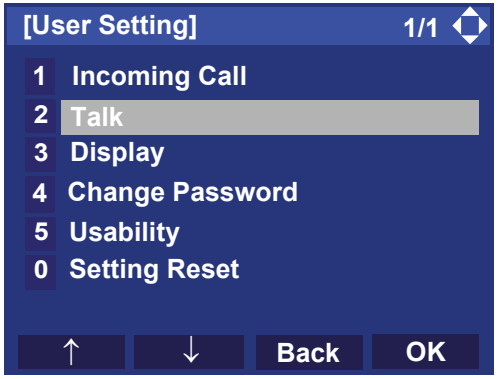
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 2 **Talk**.

Select an item by either of the following operations.

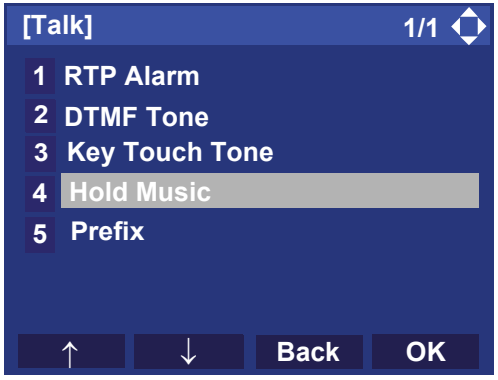
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 4: Select 4 **Hold Music**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (4) key.

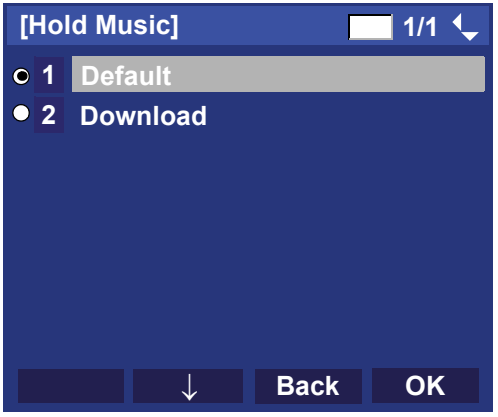


STEP 5: Select a desired music on hold. You can preview the designated music on hold.

Select 1 **Default** when the default data (Minuet) is used as music on hold. Select 2 **Download** when a downloaded data is used as music on hold.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (1) or (2) key, and then press or the **OK** soft key.



Note: When selecting Download, the music on hold file must be downloaded in advance. If there is no downloaded file, you hear no tone in the preview function (in actual operating conditions, “Minuet” is automatically applied).

• TO SET CALENDAR FORMAT

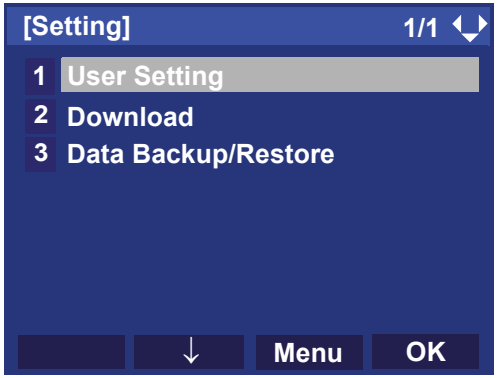
The following explains how to set the time display pattern on the LCD.

STEP 1: Display the **Menu** screen, and select 1 **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

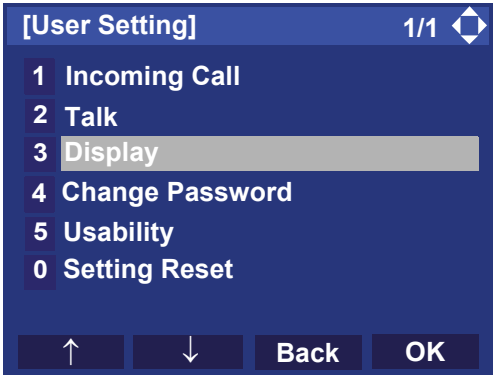
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 3 **Display**.

Select an item by either of the following operations.

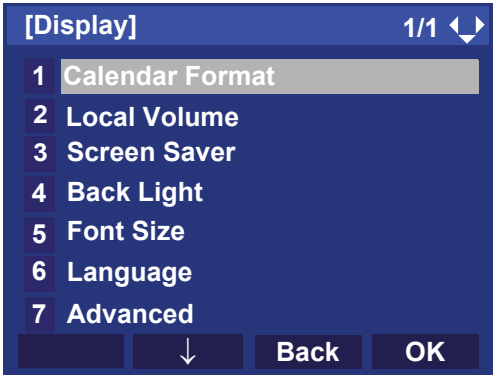
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 4: Select 1 **Calendar Format**.

Select an item by either of the following operations.

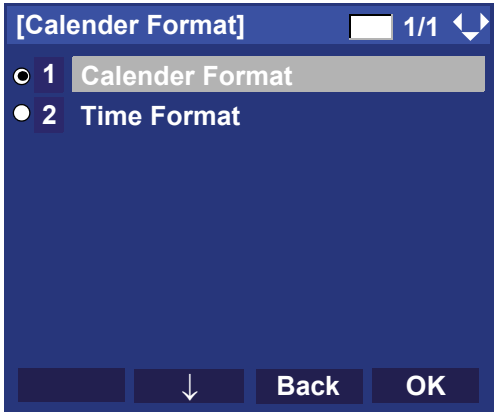
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 5: Select 1 **Calendar Format**.

Select an item by either of the following operations.

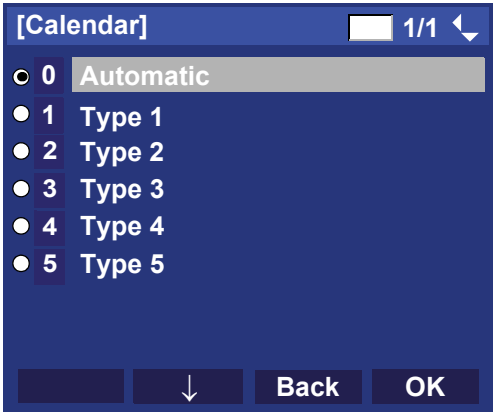
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 6: Make a selection from the following list.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (0) - (5) key, and then press or the **OK** soft key



No.	Menu Item	Meaning
0	Automatic	Follows the setting on the system
1	Type 1	7:25 AM MON 13 MAR 2017
2	Type 2	13 MAR MON 7:25AM
3	Type 3	7:25AM MAR 13 MON
4	Type 4	3-13 MON 7:25AM
5	Type 5	7:25AM MON 13 MAR

Note: Default setting is Automatic.

Note: The enabled item is highlighted.

• TO SET TIME FORMAT

Determines whether time is displayed with a 12-hour or 24-hour clock format.

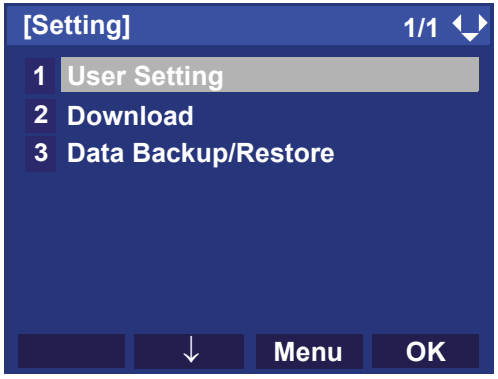
Note: This setting is available for Time Display only. Call Log feature displays the time in 24-hour format regardless of this setting.

STEP 1: Display the **Menu** screen, and select 1 **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

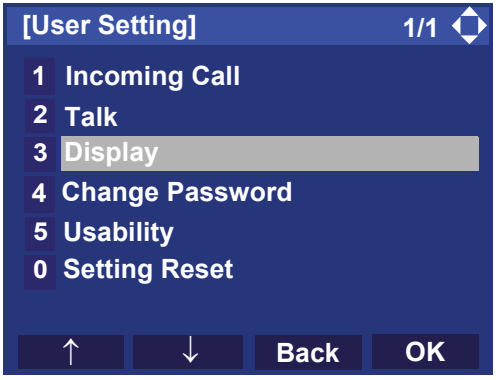
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 3 **Display**.

Select an item by either of the following operations.

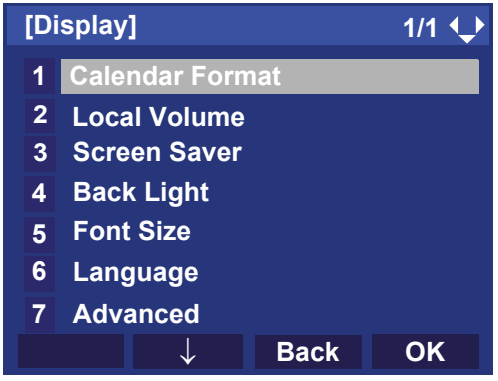
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 4: Select 1 **Calendar Format**.

Select an item by either of the following operations.

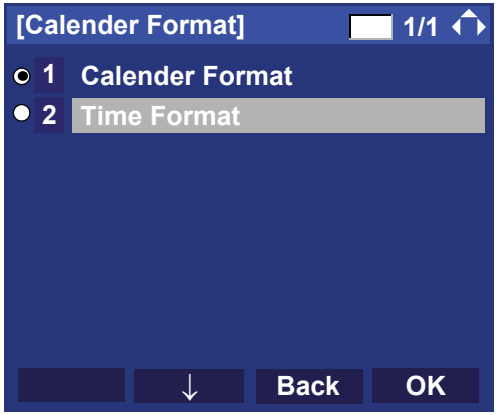
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 5: Select 2 **Time Format**.

Select an item by either of the following operations.

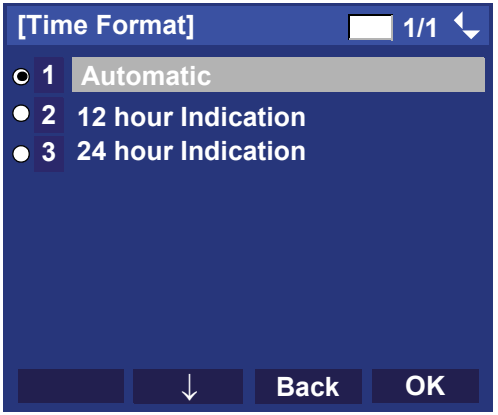
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 6: Make a selection from the following list.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (0) - (2) key, and then press or the **OK** soft key.



No.	Menu Item	Meaning
0	Automatic	Follows the setting on the system (default)
1	12 hour Indication	12-hour clock
2	24 hour Indication	24-hour clock

Note: When selecting Automatic or not performing this time format setting, 12-hour clock is automatically applied.

Note: Default setting is Automatic.

Note: The enabled item is highlighted.

- **TO ENABLE/DISABLE VOLUME LEVEL DISPLAY**

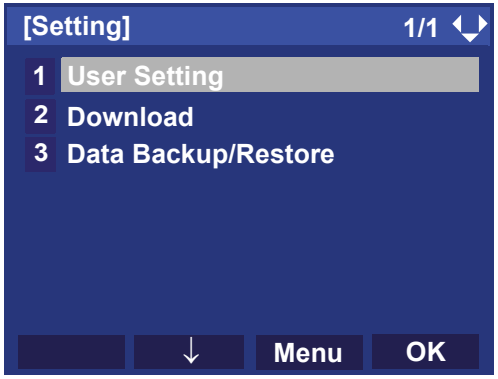
Determines whether or not to display the following volume levels: handset receiver volume, speaker volume, ringer tone volume and LCD contrast.

STEP 1: Display the **Menu** screen, and select 1 **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

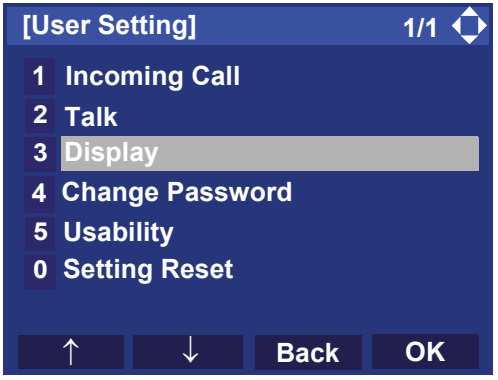
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 3 **Display**.

Select an item by either of the following operations.

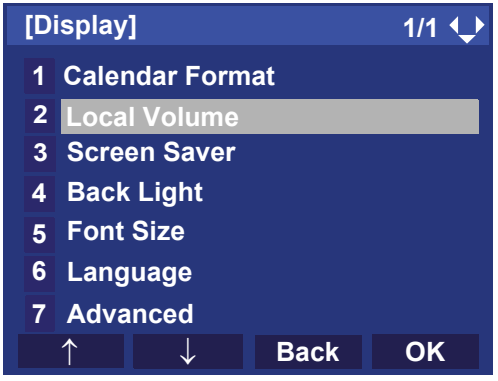
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 4: Select 2 **Local Volume**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



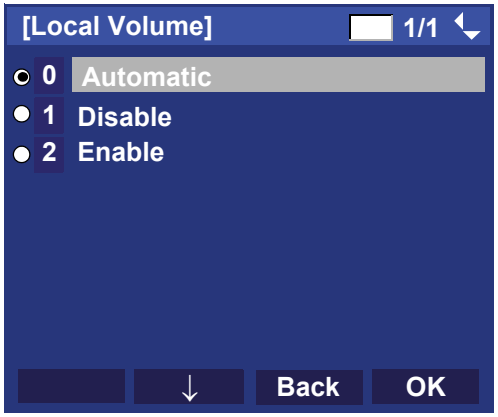
STEP 5: Make a selection from the following list.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (0) - (2) key, and then press or the **OK** soft key.

No.	Menu Item	Meaning
0	Automatic	Each volume level is displayed on LCD (default).
1	Disable	Each volume level is not displayed on LCD.
2	Enable	Each volume level is displayed on LCD.

Note: The enabled item is highlighted.



• TO SET SCREEN SAVER

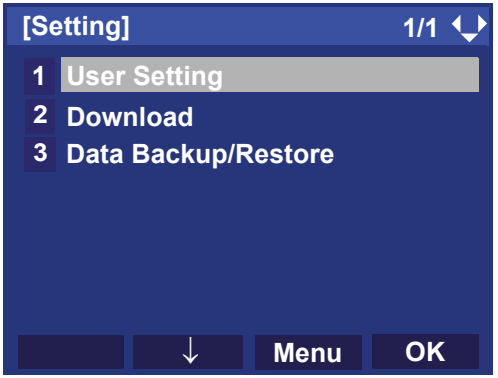
Screen Saver works after the telephone in an idle state for a certain period of time.

STEP 1: Display the **Menu** screen, and select 1 **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

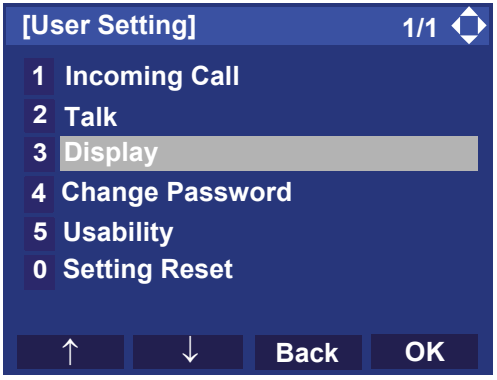
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 3 **Display**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.

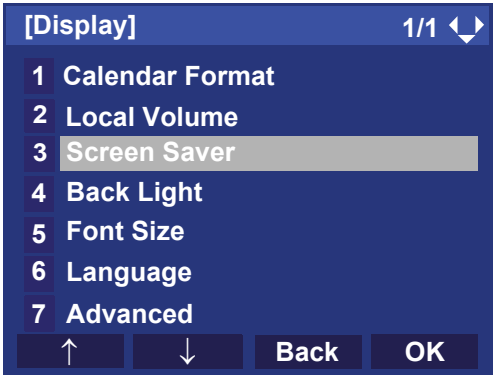


STEP 4: Select 3 **Screen Saver**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key

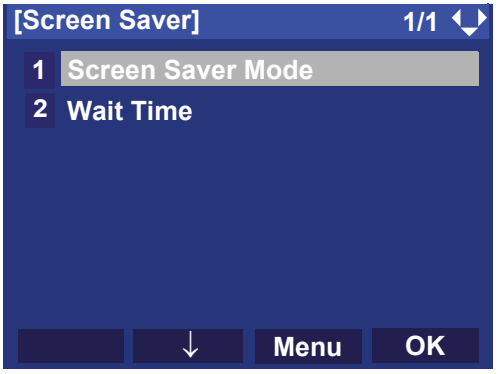
.



STEP 5: Select 1 **Screen Saver Mode**.

Select an item by either of the following operations.

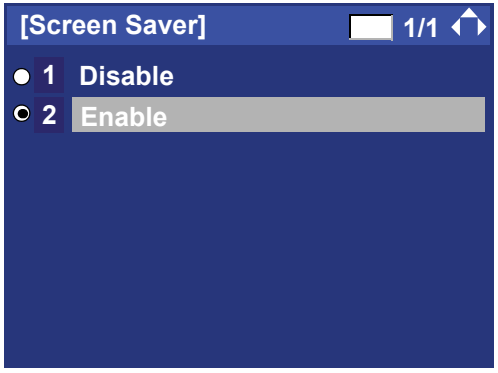
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 6: Select either [1] **Disable** or [2] **Enable**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (1) or (2) key, and then press or the **OK** soft key.

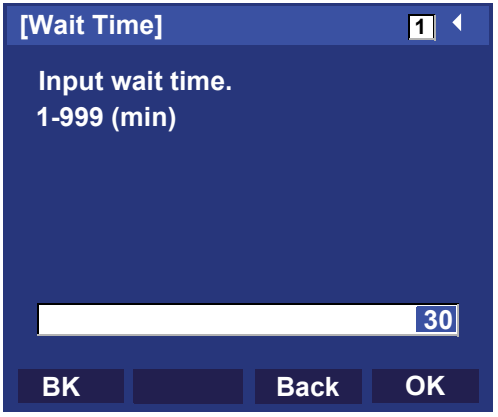


Note: Default setting is [2] **Enable**. If [1] **Disable** is specified, an afterimage may occur on LCD when activating the terminal for a long time. Therefore, the default setting should be set.

Note: The enabled item is highlighted.

STEP 7: The display goes back to the **Screen Saver** screen. When [2] **Enable** is selected on Step 6, Select [2] **Wait Time**.

Input **Wait Time** to launch the screen saver (1-999min) and then press or the **OK** soft key.



Note: Default value is 30 min.

• TO SET BRIGHTNESS OF BACKLIGHT

The following explains how to set the brightness level of the LCD backlight.

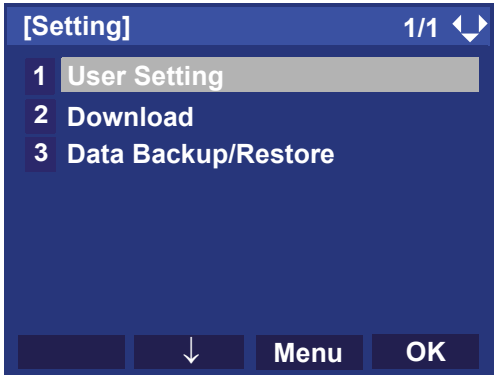
Note: Backlight feature is optional.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

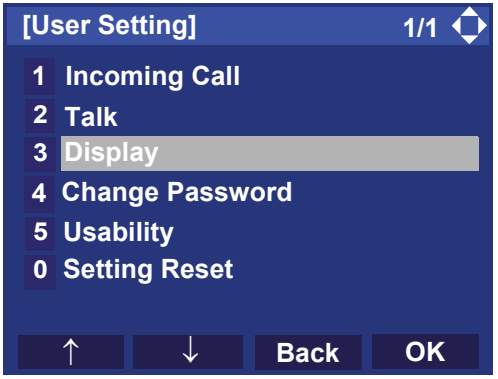
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1) key.



STEP 3: Select 3 **Display**.

Select an item by one of the following operations.

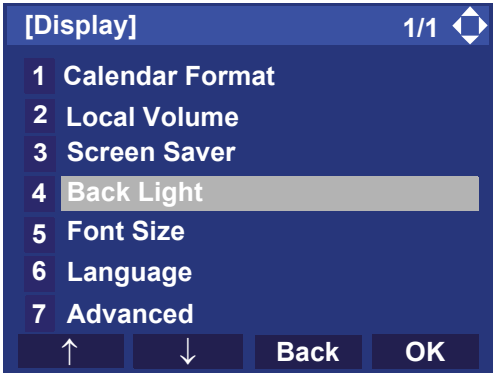
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (3).



STEP 4: Select 4 **Back Light**.

Select an item by one of the following operations.

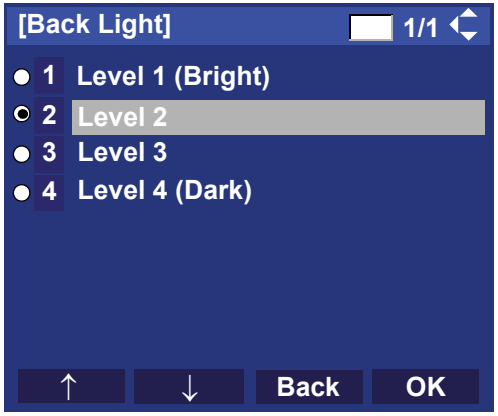
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (4).



STEP 5: Select a desired brightness level.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (1) - (4), and press or the **OK** key.



Note: Default setting is Level 2.

Note: The enabled item is highlighted.

• TO CHANGE CHARACTER SIZE

The following explains how to change the displayed character size on the LCD.

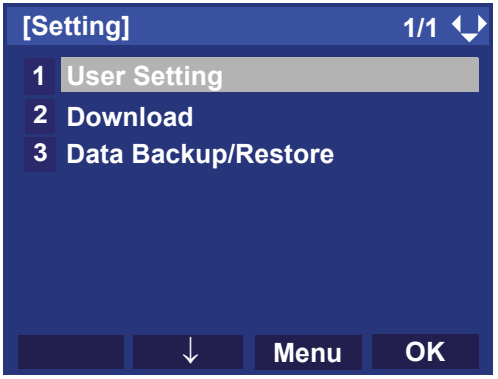
STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1)

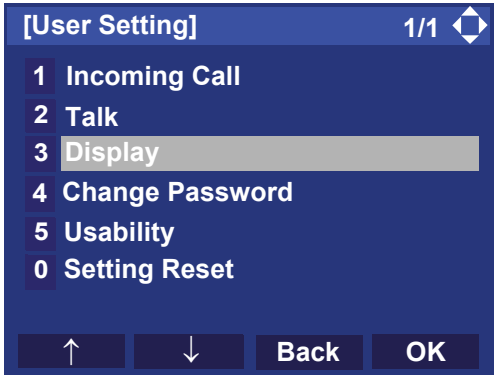
.



STEP 3: Select 3 **Display**.

Select an item by one of the following operations.

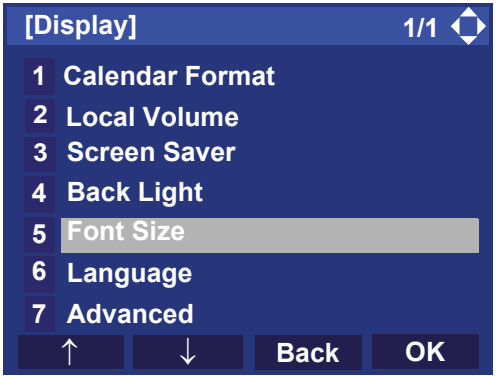
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (3).



STEP 4: Select 5 **Font Size**.

Select an item by one of the following operations.

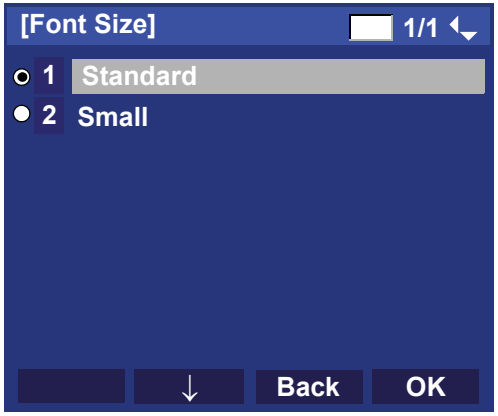
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (5).



STEP 5: Choose either “Standard” or “Small”.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (1) or (2), and press or the **OK** key.



Note: Default setting is Standard.

Note: The enabled item is highlighted.

• TO SET A LANGUAGE

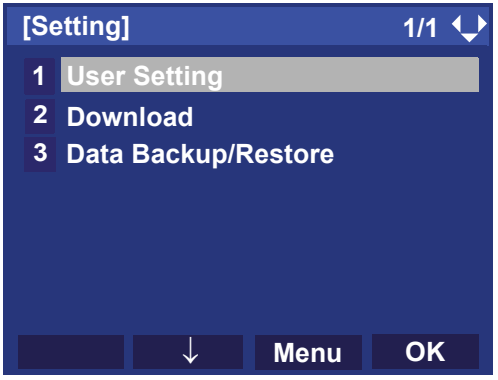
The following explains how to set a language to be displayed on LCD.

STEP 1: Display the **Menu** screen, and select 1 **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

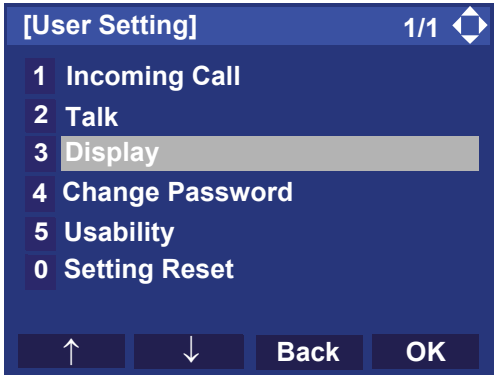
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 3 **Display**.

Select an item by either of the following operations.

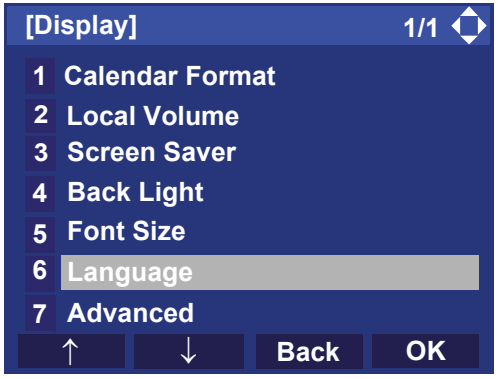
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 4: Select 6 **Language**

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (6) key.

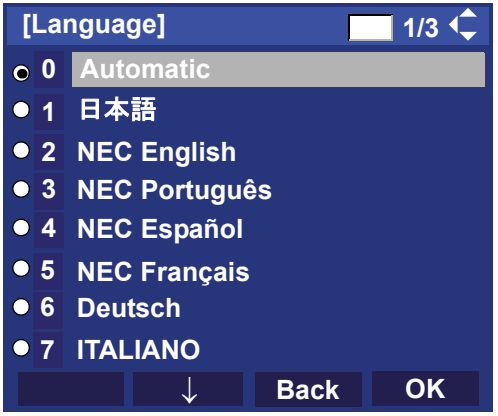


STEP 5: Select a desired language.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (0) - (9) key, and then press or the **OK** soft key.

For example, press (1) + (3) to select 13 **English**.



Note: The enabled item is highlighted.

Note: Each item is displayed in its native language as follows:

◉0 Automatic	0:Telephony Server side's language setting is applied.
○1 日本語	1:Japanese
○2 NEC English	2:NEC English
○3 NEC Português	3.NEC Portuguese
○4 NEC Español	4:NEC Spanish
○5 NEC Français	5:NEC French
○6 Deutsch	6:German
○7 ITALIANO	7:Italian
○8 Nederlands	8:Dutch
○9 Norsk	9:Norwegian
○10 Dansk	10:Danish
○11 Svensk	11:Swedish
○12 Ελληνικά	12:Greek
○13 English	13:English
○14 Português	14:Portuguese
○15 Español	15:Spanish
○16 Français	16:French
○17 Русский	17:Russian
○18 Türk	18:Turkish
○19 Azərbaycanca	19:Azerbaijani
○20 Român	20:Romania
○21 Polski	21:Polish
○22 Català	22:Catalan
○23 한국어	23:Korean

Note: If the system to which DT820C is connected cannot recognize DT820C, the system may take it as DT830 Series and may ask you to specify Chinese display in the system data, however, do not specify it, because no Chinese fonts compatible with DT820C exist in the system.

STEP 6: After making a selection, press ⊙ or the **OK** soft key.

• TO SET WALLPAPER

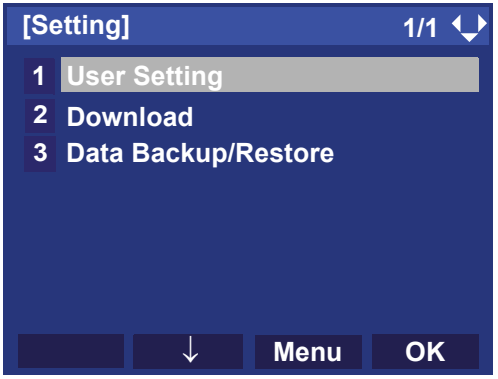
The following explains how to set wallpaper.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

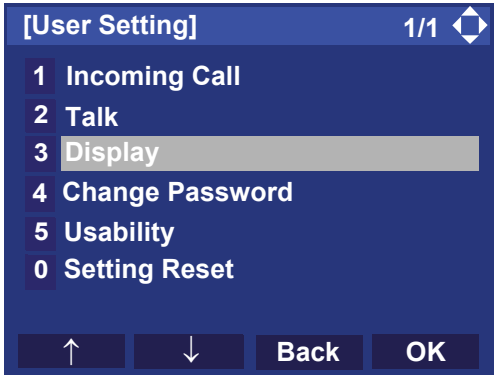
- Highlight an item by using ⊙ or the **UP/DOWN** soft key, and press ⊙, ⊙ or the **OK** key.
- Press (1).



STEP 3: Select 3 **Display**.

Select an item by one of the following operations.

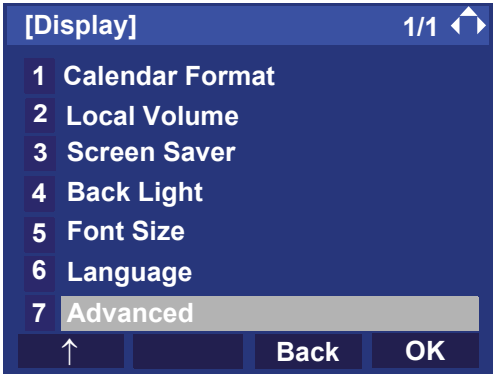
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (3).



STEP 4: Select 7 **Advanced**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (7).



STEP 5: Select 1 **Wallpaper**.

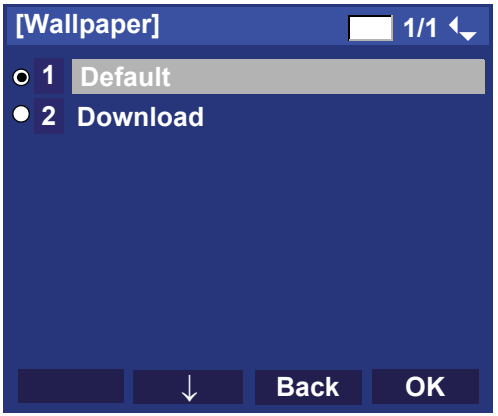
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).

STEP 6: Choose either 1 **Default** or 2 **Download**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (1) or (2), and press or the **OK** key.



Note: For Default setting, the pre-installed wallpaper will be displayed.

Note: The enabled item is highlighted.

Note: When choosing Download, the wallpaper file must be downloaded in advance. If there is no downloaded file, the default wallpaper is used.

• TO SET CHARACTER FONT COLOR

The following explains how to set the displayed character color on the LCD.

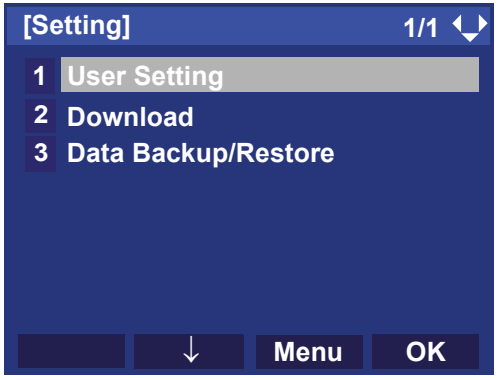
Note: Font characters are displayed at LCD 4-line display area.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

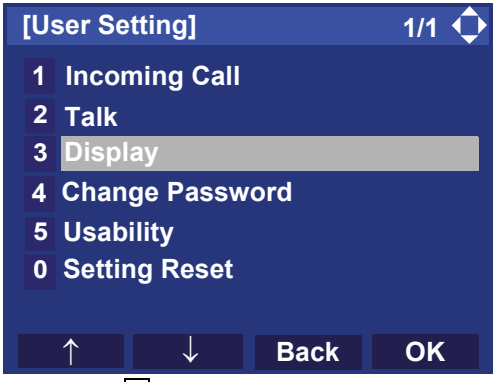
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).



STEP 3: Select 3 **Display**.

Select an item by one of the following operations.

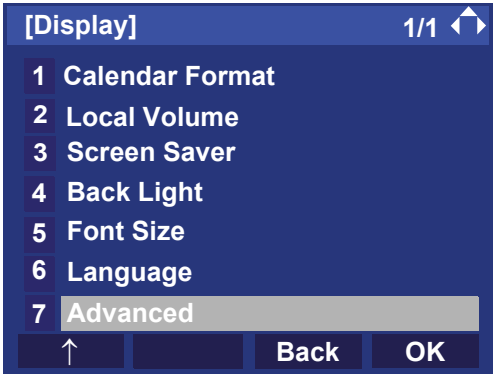
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (3).



STEP 4: Select 7 **Advanced**.

Select an item by one of the following operations.

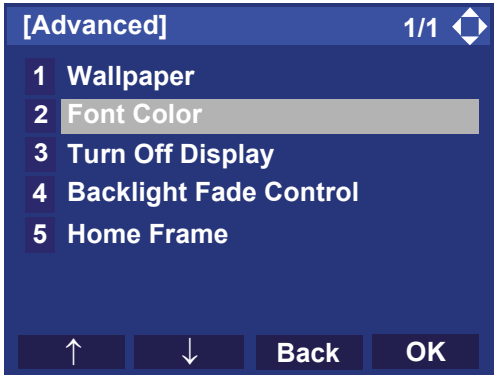
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (7).



STEP 5: Select 2 **Font Color**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (2).

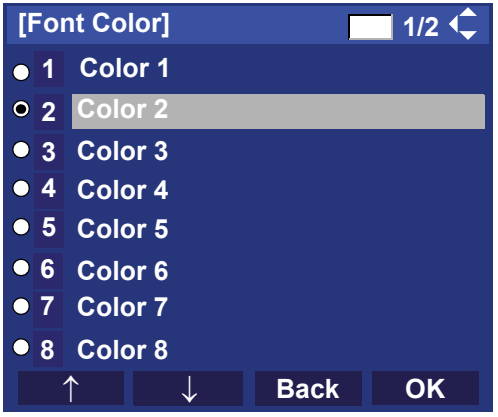


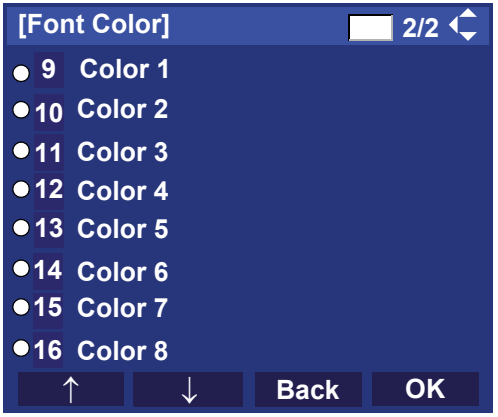
STEP 6: Select a desired color.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press the digit key of desired number, and press or the **OK** key.

For example, press (1) + (5) to select 15 **Color 15**.





Note: The color of the character corresponds to the actual display color on the screen of the color selection.

Note: Default setting is Color 16.

Note: The enabled item is highlighted.

Table of Font Color

NO.	Color Name	RGB code
1	Color 1	0x000000
2	Color 2	0x000080
3	Color 3	0x0000F2
4	Color 4	0x008000
5	Color 5	0x008080
6	Color 6	0x00F200
7	Color 7	0x00F2F2
8	Color 8	0x800000
9	Color 9	0x800080
10	Color 10	0x808000
11	Color 11	0xA0A0A0
12	Color 12	0xC0C0C0
13	Color 13	0xF20000
14	Color 14	0xF200F2
15	Color 15	0xF2F200
16	Color 16	0xF2F2F2

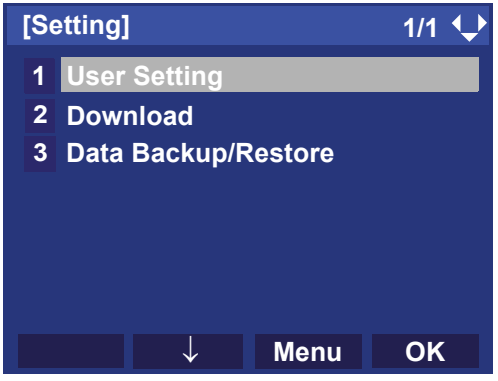
• TO SET TURN OFF DISPLAY

The Turn off Display feature works after the telephone is idle for a certain period of time.
The following explains how to set Turn off Display.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

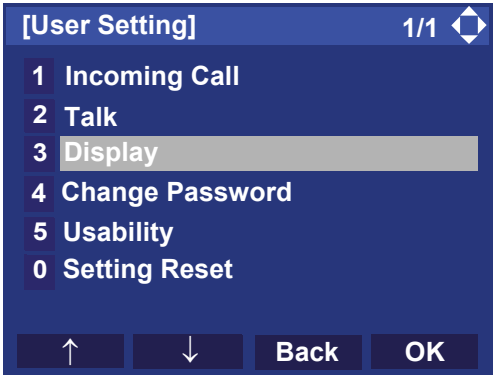
Select an item by one of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 3: Select 3 **Display**.

Select an item by one of the following operations.

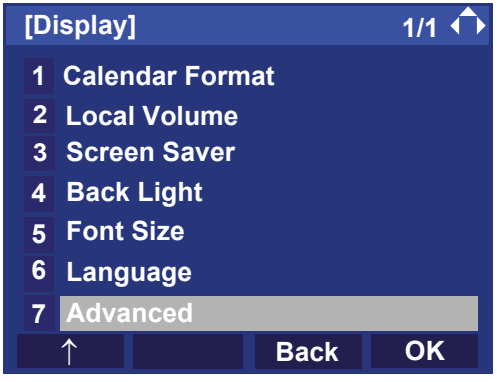
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (3).



STEP 4: Select 7 **Advanced**.

Select an item by one of the following operations.

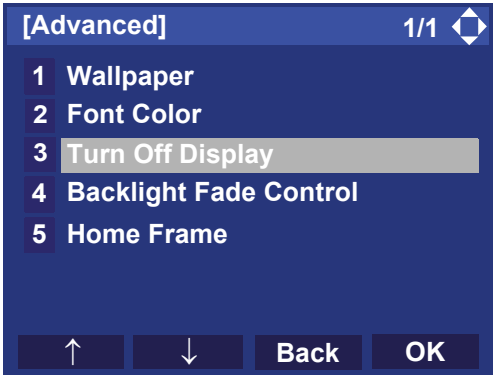
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (7).



STEP 5: Select 3 **Turn Off Display**.

Select an item by one of the following operations.

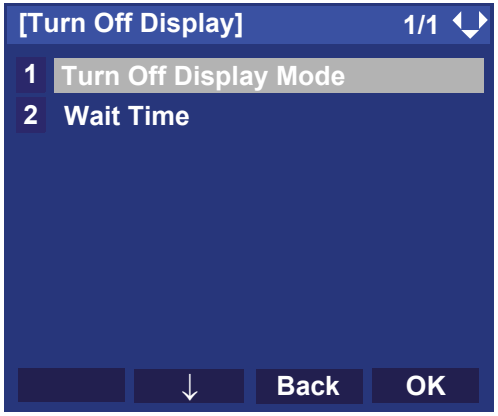
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (3).



STEP 6: Choose 1 **Turn Off Display Mode.**

Select an item by one of the following operations.

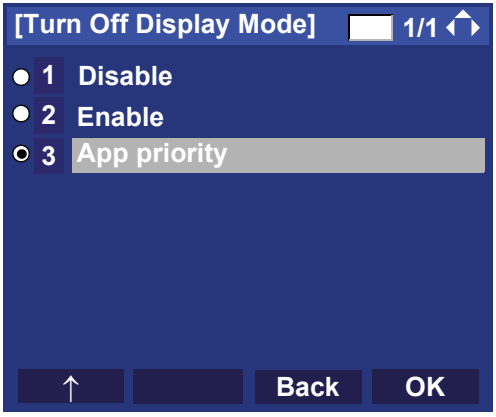
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).



STEP 7: Select 1 **Disable**, 2 **Enable** or 3 **App priority**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (1), (2) or (3), and press or the **OK** key.

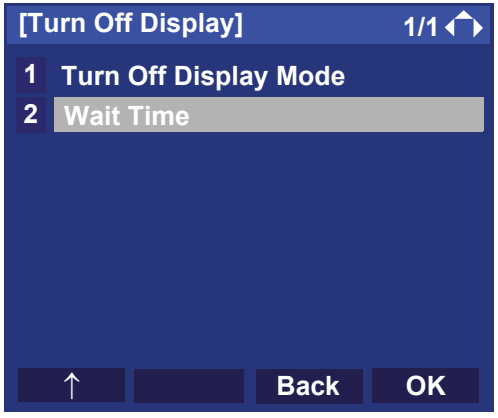


Note: If you select "App priority", the screen saver is set to an external application. When the external application orders the terminal display to turn off while the screen saver activates, the display will be turned off.

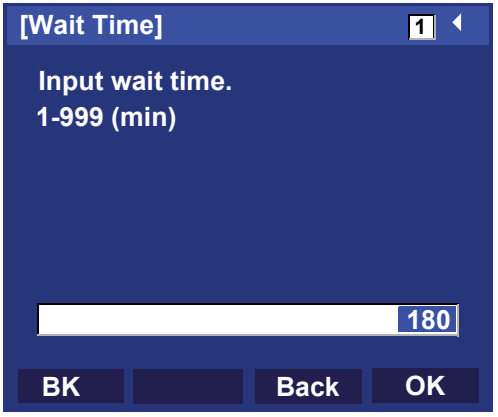
Note: The enabled item is highlighted.

Note: For the details about setting a screen saver to an external application, contact the system administrator.

STEP 8: The display goes back to the Turn Off Display screen. When 2 **Enable** is selected at STEP7, Choose 2 **Wait Time**.



STEP 9: Input **Wait Time** to turn off the display (1-999(min)) and press or the **OK** key.



Note: When "App priority" is selected for "Turn Off Display Mode", if the external application does not give instructions to turn off the display, the setting of "Wait Time" will be invalid.

Note: Default value is 180 min.

• TO SET BACKLIGHT FADE CONTROL

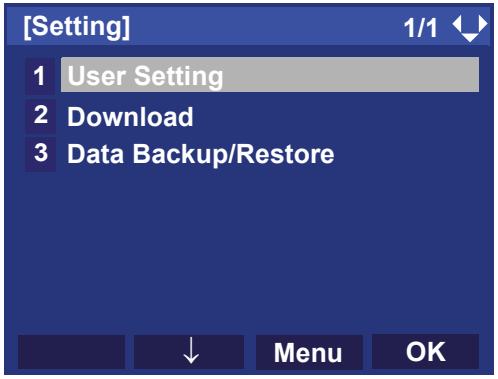
The following explains how to set Backlight Fade Control. When you set Backlight Fade Control as “Enable”, you can turn on/off the LCD smoothly.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

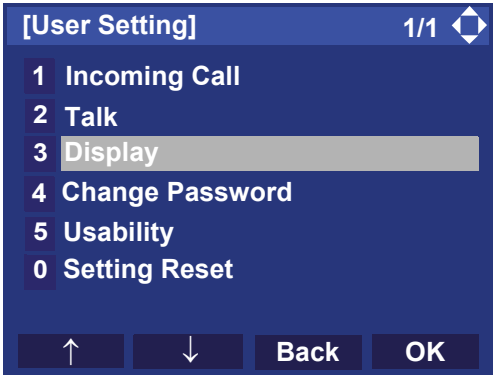
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).



STEP 3: Select 3 **Display**.

Select an item by one of the following operations.

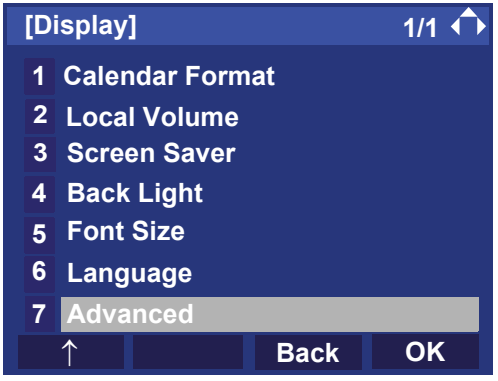
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (3).



STEP 4: Select 7 **Advanced**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (7).



STEP 5: Select 4 **Backlight Fade Control**.

Select an item by one of the following operations.

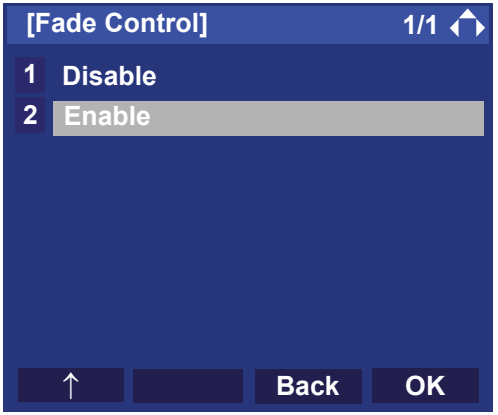
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (4).

STEP 6: Choose either 1 **Disable** or 2 **Enable**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (1) or (2), and press or the **OK** key

.



Note: Default value is Enable.

• TO SET HOME FRAME DISPLAY

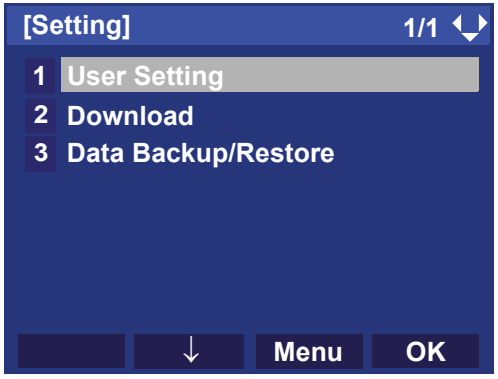
The following explains how to set Home Frame indication. When you set Home Display as “Enable”, a frame is displayed on the home screen of LCD.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

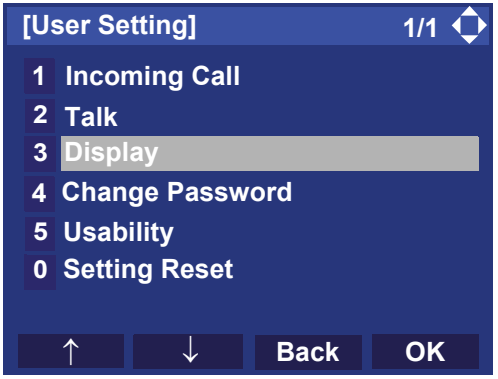
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).



STEP 3: Select 3 **Display**.

Select an item by one of the following operations.

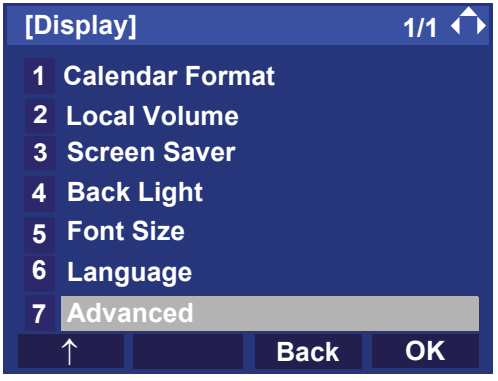
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (3).



STEP 4: Select 7 **Advanced**.

Select an item by one of the following operations.

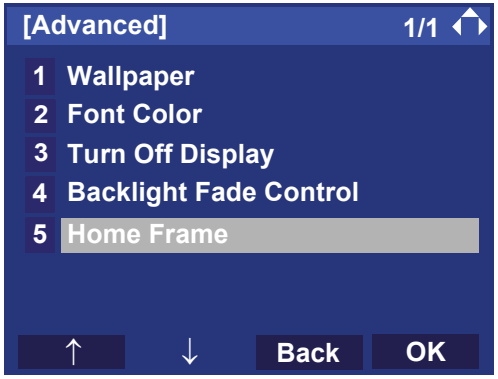
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (7).



STEP 5: Select 5 **Home Frame**.

Select an item by one of the following operations.

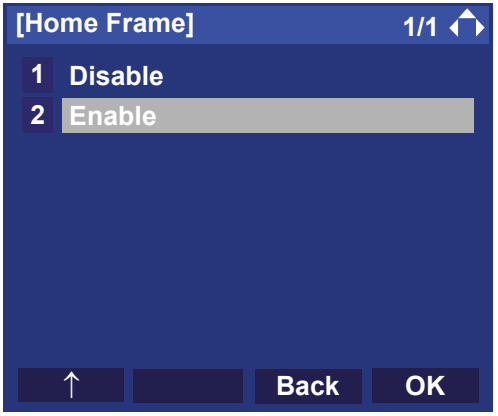
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 5.



STEP 6: Choose either 1 **Disable** or 2 **Enable**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 1 or 2, and press or the **OK** key.



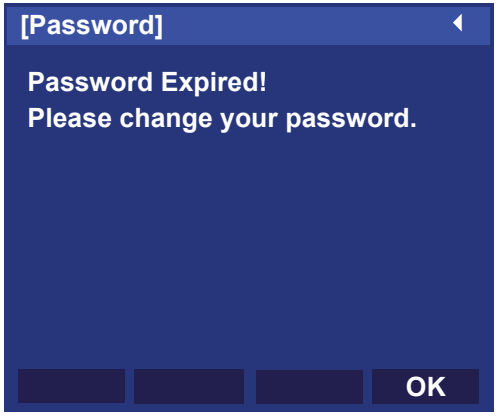
Note: Default value is Enable.

• TO CHANGE PASSWORD

To change an existing password, follow the procedure below. This password is used for the following occasions.

- To lock/unlock the telephone.
- To reset the telephone settings.

Note: Depending on the System Configuration, the expiration date of password can be specified. When the expiration date has passed, the following error message is displayed on the Desktop screen. For details, please contact the system administrator.

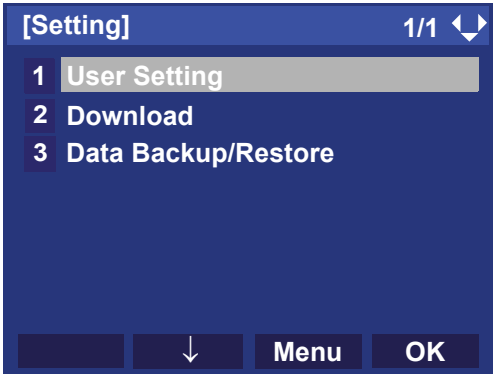


STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

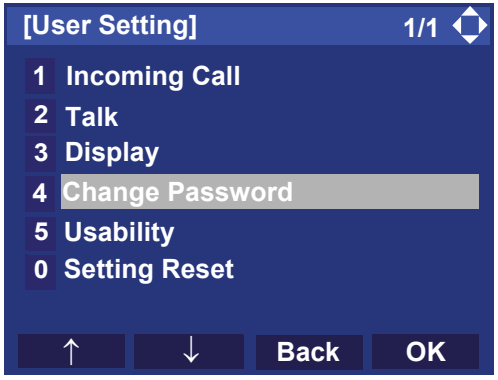
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



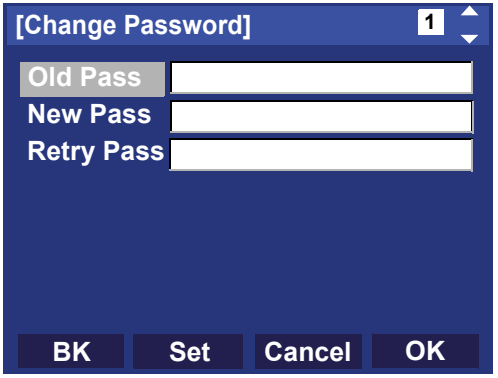
STEP 3: Select 4 **Change Password**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (4) key.

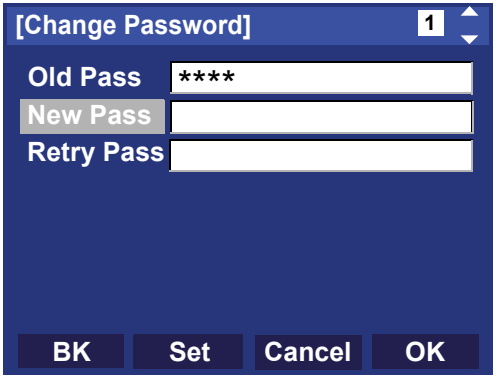


STEP 4: The **Change Password** screen is displayed. Enter the old password and then press or the **Set** soft key.

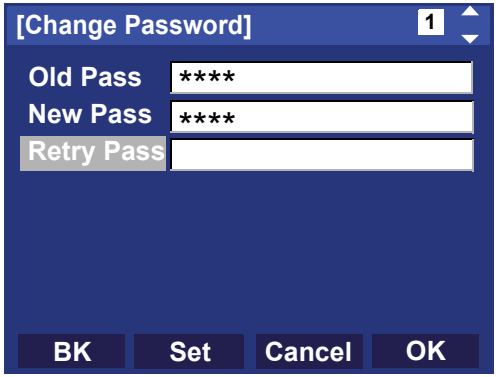


Note: The initial password is “0000”. When changing the password for the first time, enter “0000” as the old password.

STEP 5: Enter the new password and then press or the **Set** soft key.

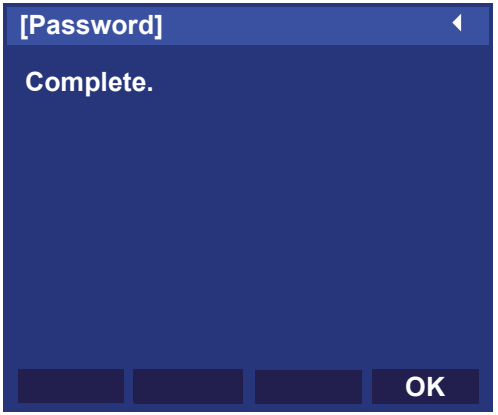


STEP 6: Enter the new password again and then press or the **OK** soft key.

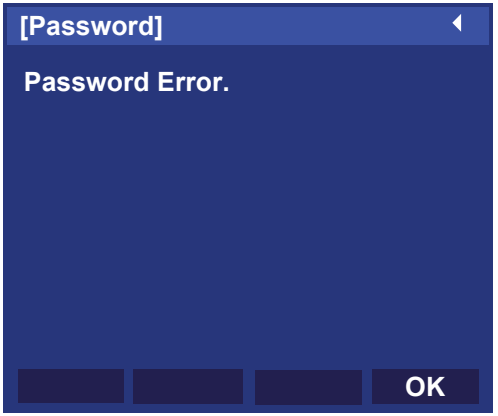


Note: A maximum of 32 digits (0-9, * and #) can be set as a password.

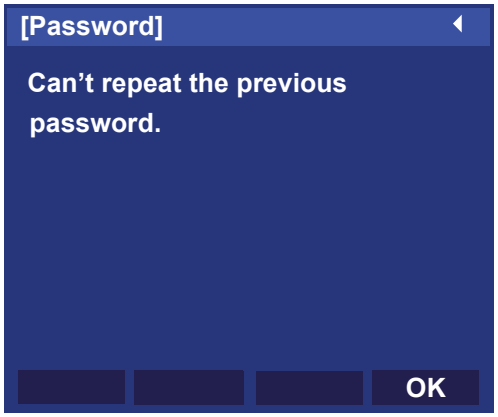
STEP 7: When the password entry completes successfully, the display changes as follows. Press or the **OK** soft key.



Note: When the password entry ends in failure, the following error message is issued. In that case, press the **OK** soft key and try again.



Note: When you enter the current password to the **New Pass**, the following error message is issued. In that case, press the **OK** and enter the password except for the current password.



• TO SET USABILITY

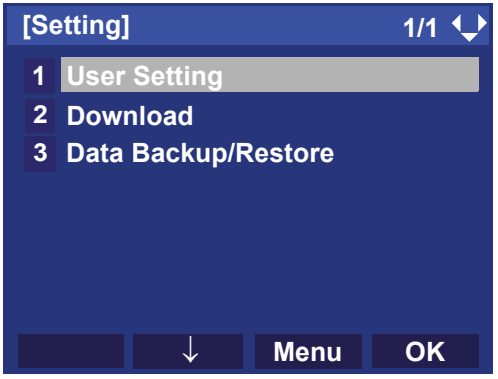
The procedure below shows how to set the operation of the **Help** key while pop-up window is displayed.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

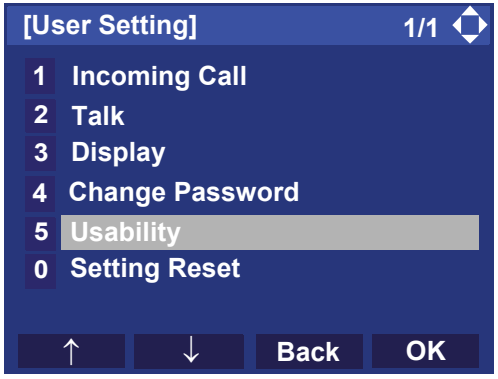
- Touch panel operation.
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 5 **Usability**.

Select an item by one of the following operations.

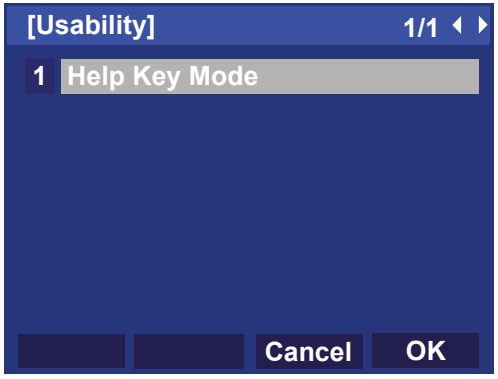
- Touch panel operation.
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** soft key.
- Press (5) key.



STEP 4: Select [1] **Help Key Mode**.

Select an item by one of the following operations.

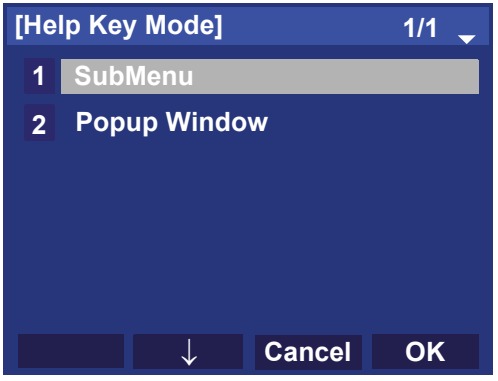
- Touch panel operation.
- Press or the **OK** soft key.
- Press (1) key.



STEP 5: Select a desired mode of **Help** key.

Select an item by one of the following operations.

- Touch panel operation, and press or the **OK** soft key.
- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** soft key.
- Press (1) or (2) key, and press or the **OK** soft key.



No.	ITEM	DESCRIPTION
1	Sub Menu	Set the Help key which displays sub menu
2	Popup Window	Set the Help key which displays pop-up window

• TO RESET TELEPHONE SETTINGS

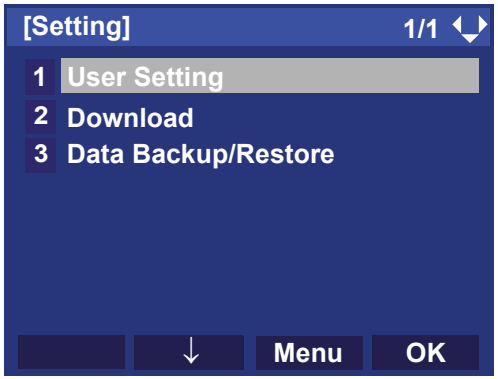
The following explains how to clear the personal data off the telephone.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.

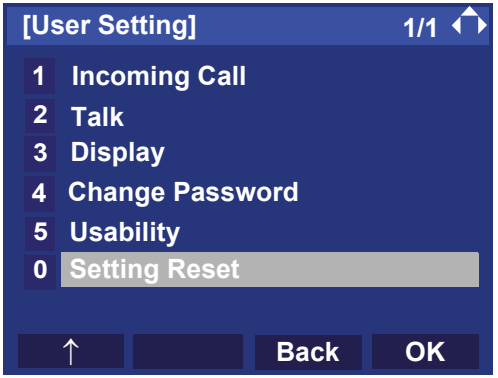


STEP 3: Select 0 **Setting Reset**.

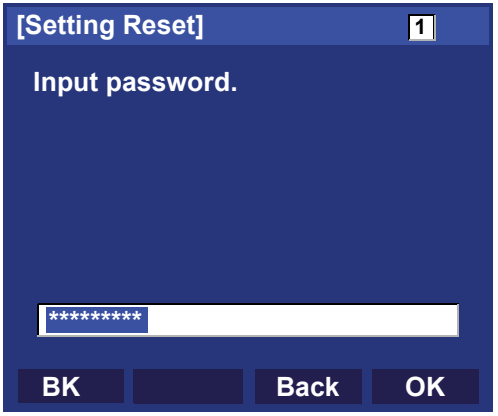
Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (0) key

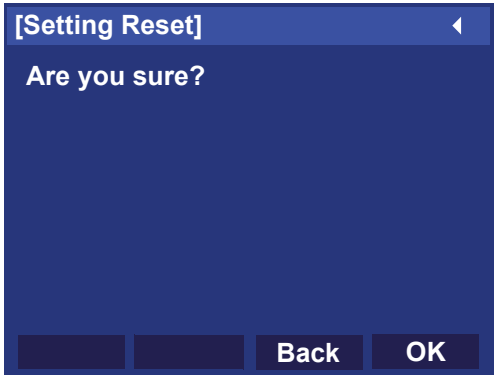
.



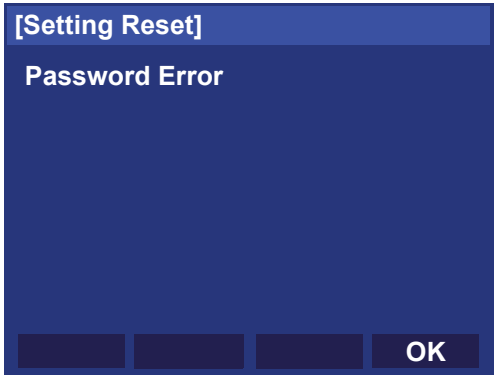
STEP 4: Enter the password and then press or the **OK** soft key.



STEP 5: Press or the **OK** soft key to clear the personal data of the telephone.



Note: When the password entry ends in failure, the following error message is issued. In that case, press OK and make a retry.



• TO DOWNLOAD A FILE

The DT820C Series user can download files for music on hold and ringer tone. When downloading these files, the terminal needs to be connected to the FTP/TFTP/HTTPS server.

Note: For details on the FTP/TFTP/HTTPS service, contact the system administrator.

Before starting the download, the IP Address/URI of the FTP/TFTP/HTTPS server must be entered from the terminal.

STEP 1: Set up the FTP/TFTP/HTTPS server.

<FTP server>
Put the downloading file into the designated directory (for Windows IIS, the default is “C:\InetPub\ftproot”) of the FTP server.

<TFTP server>
Put the downloading file into a desired directory of TFTP server and then specify it as the directory for downloading.

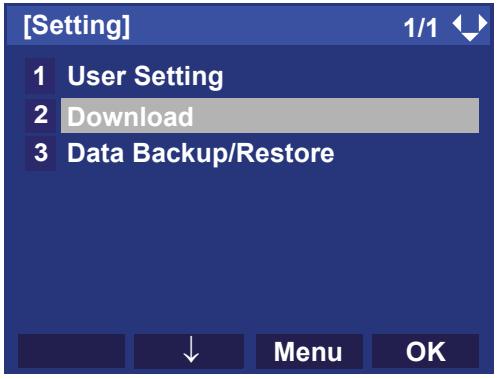
<HTTPS server>
Put the downloading file into a desired directory of HTTPS server and specify it as the directory for downloading.

STEP 2: Display the **Menu** screen, and select **Setting**.

STEP 3: Select 2 **Download**.

Select an item by either of the following operations.

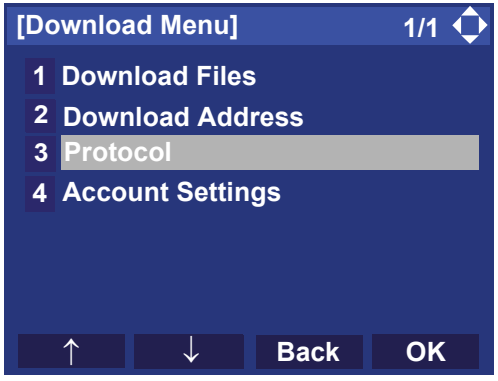
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 4: Select 3 **Protocol**.

Select an item by either of the following operations.

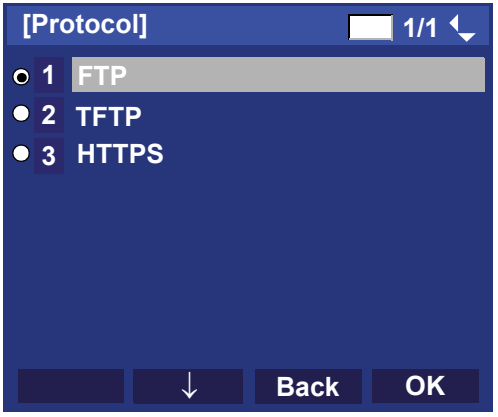
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 5: Select a protocol used by the server which stores the download file.

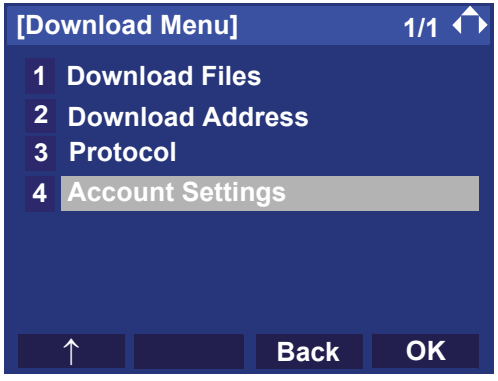
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (1), (2), or (3) keys and press or the **OK** key.

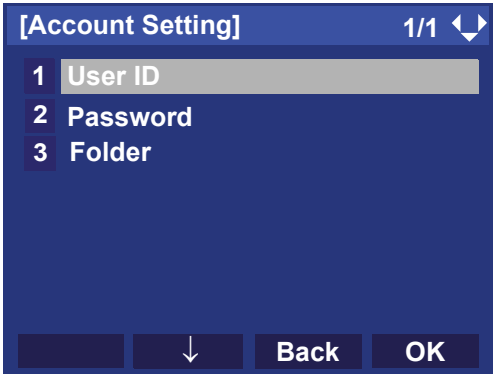


STEP 6: The display goes back to the **Download Menu** screen.
When 1 **FTP**/3 **HTTPS** is selected here, go to STEP 7.
When 2 **TFTP** is selected here, go to STEP 15.

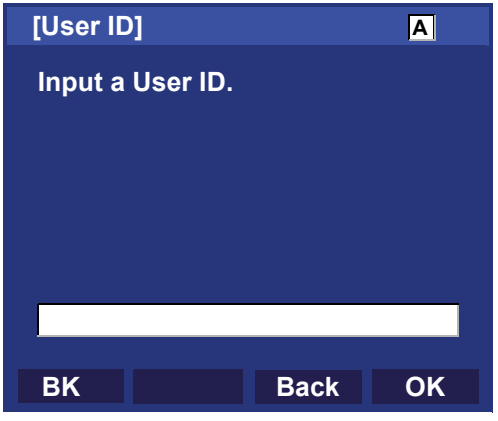
STEP 7: Select 4 **Account Settings**.
Select an item by either of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (4) key.



STEP 8: Select 1 **User ID**.
Select an item by either of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 9: Enter a User ID by using digit keys, then press or the **OK** soft key.

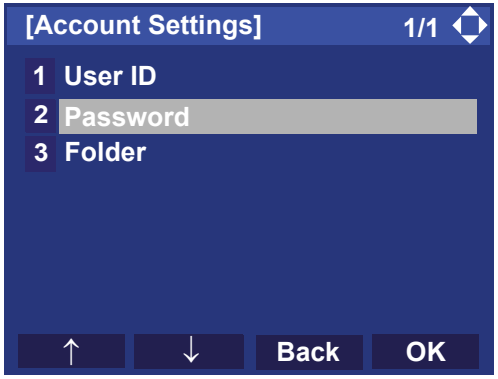


Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

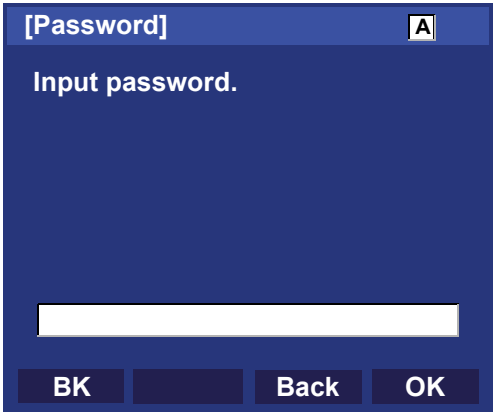
STEP 10: The display goes back to the **Account Settings** screen. Select 2 **Password**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 11:Enter a password by using digit keys, then press or the **OK** soft key.

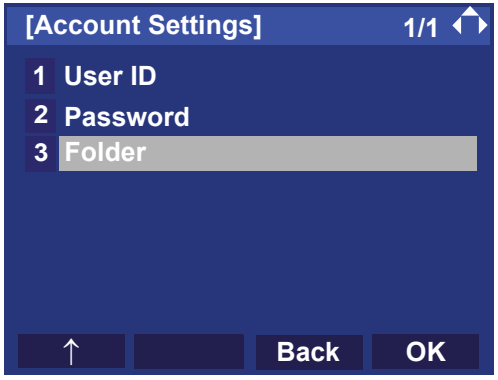


Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

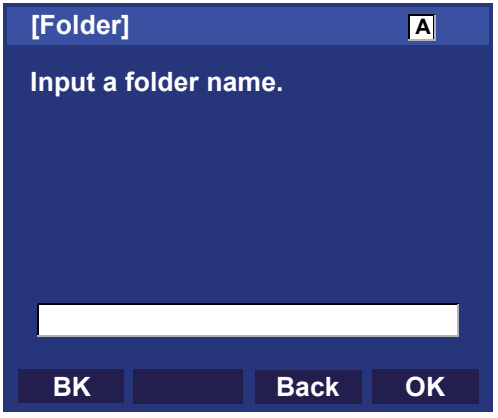
STEP 12:The display goes back to the **Account Settings** screen. Select 3 **Folder**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.

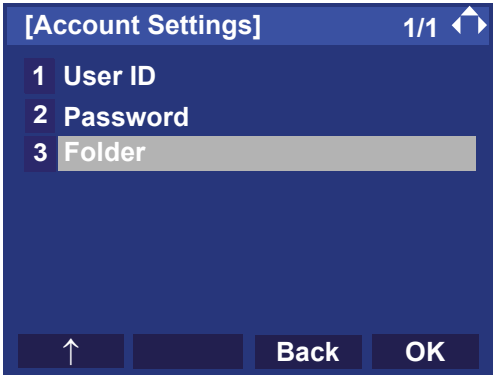


STEP 13:Enter the directory where the download file is stored and then press or the **OK** soft key.



Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

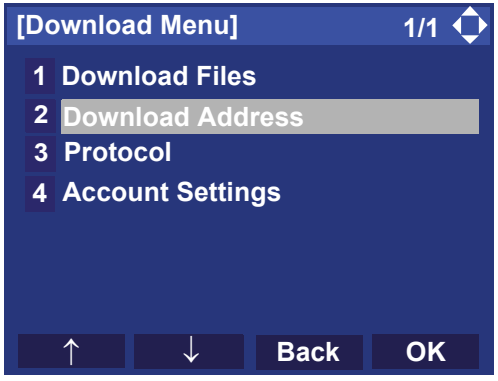
STEP 14:The display goes back to the **Account Settings** screen. Press or the **Back** soft key to display the **Download Menu** screen.



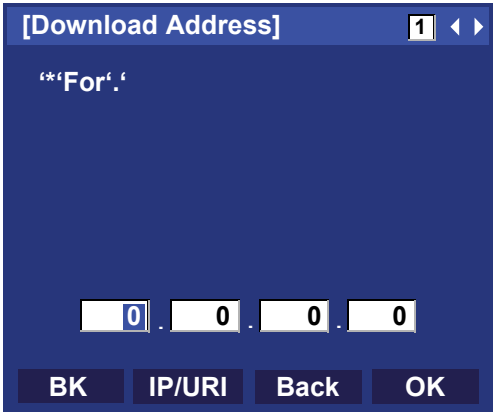
STEP 15:Select 2 **Download Address**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 2 key.



STEP 16:Enter the IP address/URI of the FTP/TFTP/HTTPS server which stores the download file. For example, to set the IP address of 10.41.208.205, enter 10*41*208*205 [separate with an asterisk (*)].

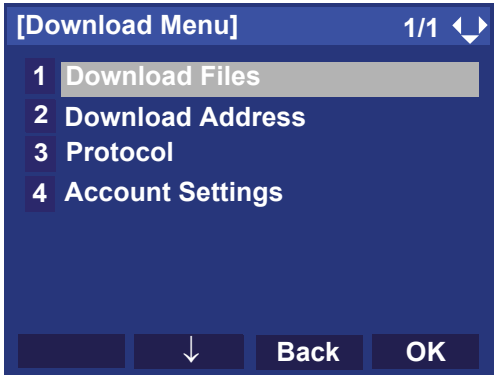


STEP 17:After entering the IP address, press or the **OK** soft key.

STEP 18:The display goes back to the **Download Menu** screen. Select 1 **Download Files**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



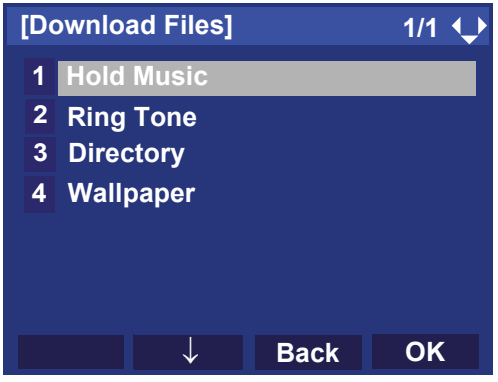
STEP 19:Select a file to be downloaded.

When downloading a file for Music on Hold : Select 1 **Hold Music** and go to **STEP 21**.

When downloading a file for ringer tone : Select 2 **Ring Tone** and go to **STEP 20**.

When downloading a file for directory : Select 3 **Directory** and go to **STEP 21**.

When downloading a file for Wallpaper : Select 4 **Wallpaper** and go to **STEP 21**.



STEP 20:When 2 **Ring Tone** is selected at STEP 18, the following **Ring Tone** screen is displayed. Select either 1 **Music Ring1**, 2 **Music Ring2** or 3 **Music Ring3**.

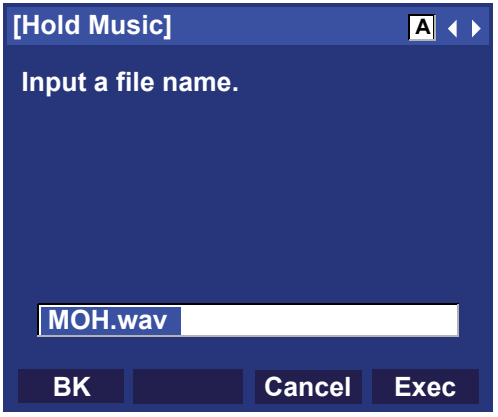
Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) - (3) key.

STEP 21:The default file name will be displayed.

Note: For the music on hold and ringer tone, the channel of voice output is monaural.

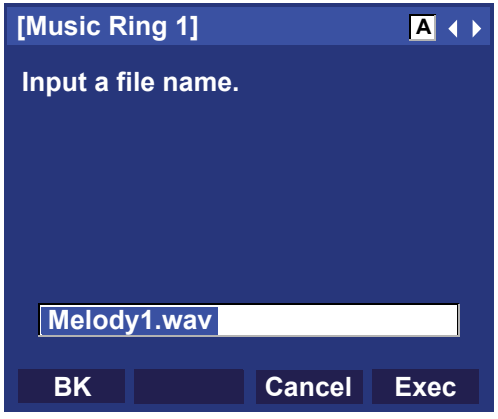
- When downloading a file for music on hold, the default file name is “MOH.wav”.



Codec	File Format	Maximum Size	Ringing Time
G.711 μ-law 8kHz	WAVE	256 KB	under 32 seconds

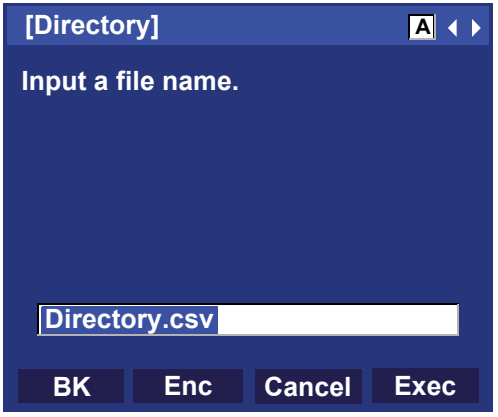
- When downloading a file for ringer tone by the ITY-8LCGX, the default file name is “Melody1/2/3.wav”.

Note: The following screen is an example selected 1 **Music Ring 1** on the STEP 19.



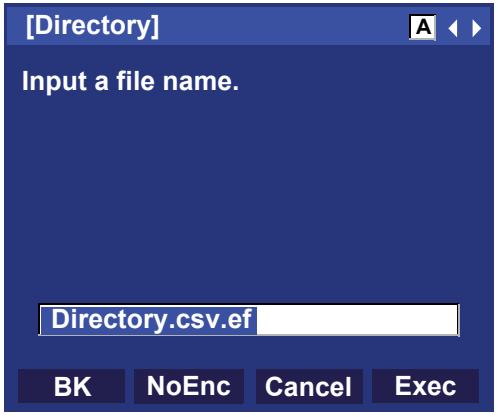
Codec	File Format	Maximum Size	Ringing Time
Linear PCM 16kHz	WAVE	1024 KB	under 32 seconds
G.711 μ-law 8kHz		256 KB	under 32 seconds

- When downloading a file for Directory, the default file name is “Directory.csv”.



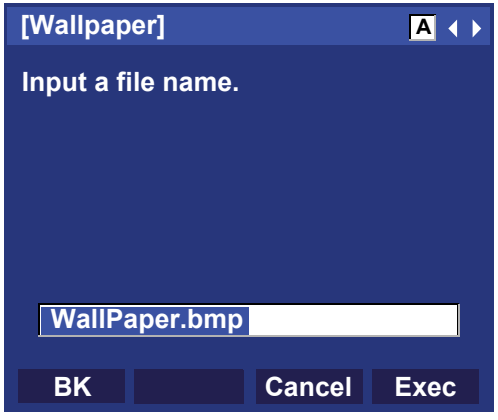
File Name	Directory.csv (Fixed)
Code	Unicode (UTF-8)

Press **Enc** to download the encrypted file. The encrypted file name is displayed as “Directory.csv.ef”.



Note: If you change the encrypted file into the unencrypted file, press **NoEnc** soft key.

- When downloading a file for Wallpaper, the default file name is “WallPaper.bmp”.



File Format	Maximum Size
bmp/jpg/gif/png	320 X 240 Pixels 230Kbyte

When changing the file name, go to the **STEP 22**.
When not changing the file name, go to **STEP 23**.

STEP 22: Press the **BK** soft key once to delete the default file name and then enter a new file name by using the digit keys.

Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

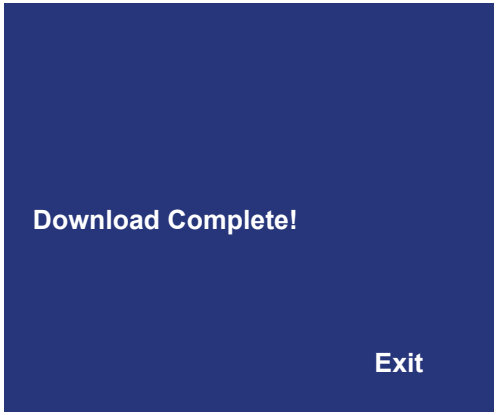
Note: A maximum of 20 characters (“0-9”, “A-Z”, “a-z”, “*”, “#”, “.”, “-” or “_”) can be entered as a file name.

Note: To delete an entered character, press the **BK** soft key.

STEP 23: Press or the **Exec** soft key to start the downloading process. While downloading a file, the LCD displays “Downloading...” first and then “Saving...”.

Note: Be sure not to turn OFF the terminal while “Saving...” is displayed on the LCD.

STEP 24:After the downloading process is complete, the display changes as follows:



The display goes back to the **Download Files** screen with the **Exit** soft key.

Note: When the downloading process ends in failure, “Downloading Failed!” is displayed on the LCD. Check to see the following and then retry.

Check Points	Actions
Download file is not placed in the specified directory.	Place the download file in the specified directory.
A different file name is specified between the terminal and FTP/ TFTP/HTTPS server.	Set the same file name from both the terminal and FTP/ TFTP/HTTPS server.
Incorrect IP address of FTP/TFTP/HTTPS server has been entered from the telephone.	Set the proper IP address of FTP/TFTP/HTTPS server.
The power to FTP/ TFTP/HTTPS server or network equipment is OFF.	Turn on the power.
LAN cable is disconnected.	Reconnect the cable securely.

• TO BACKUP PERSONAL SETTINGS

The DT820C Series user can backup personal settings of the DT820C Series to the FTP/TFTP/HTTPS server. To back up the setting data, the terminal needs to be connected to the network that has FTP/TFTP/HTTPS server.

Note: For details on the FTP/TFTP/HTTPS service, contact the system administrator.

Before starting the backup, the IP Address/URI of the FTP/TFTP/HTTPS server must be entered from the terminal.

STEP 1: Set up the FTP/TFTP/HTTPS server.
<FTP server>
Confirm the designated directory (for Windows IIS, the default is "C:\InetPub\ftproot") for the backed up file.

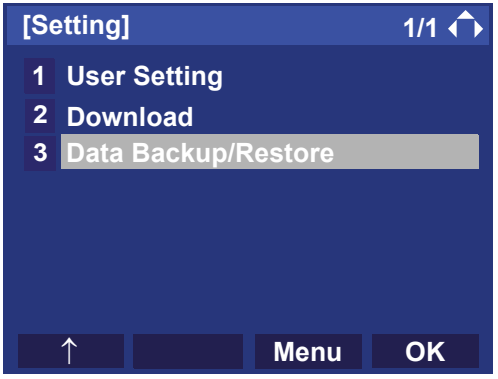
<TFTP server>
Specify a desired destination directory for the backed up file.

<HTTPS server>
Confirm the designated directory for the backed up file.

STEP 2: Display the **Menu** screen, and select **Setting**.

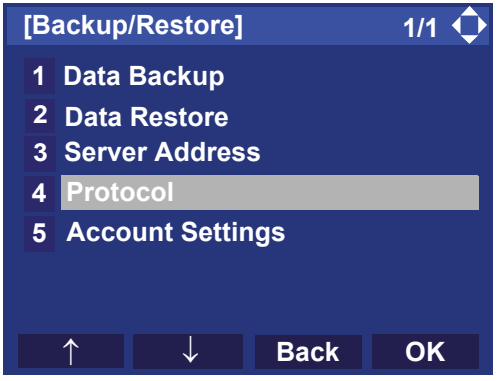
STEP 3: Select 3 **Data Backup/Restore**.

Select an item by either of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 3 key.



STEP 4: Select 4 **Protocol**.

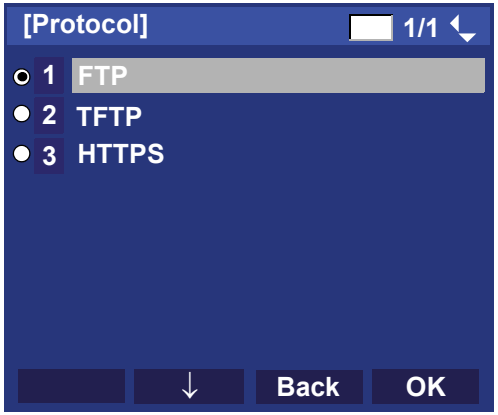
Select an item by either of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 4 key.



STEP 5: Select a protocol used by the destination server.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (1), (2), or (3) key, and then press or the **OK** soft key.



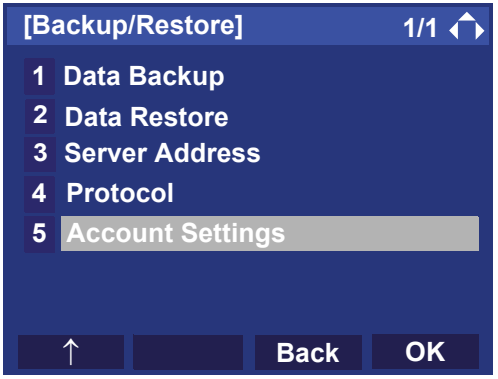
STEP 6: The display goes back to the **Backup/Restore** screen.

When [1] **FTP**/[3] **HTTPS** is selected here, go to STEP 7.
When [2] **TFTP** is selected here, go to STEP 15.

STEP 7: Select [5] **Account Settings**.

Select an item by either of the following operations.

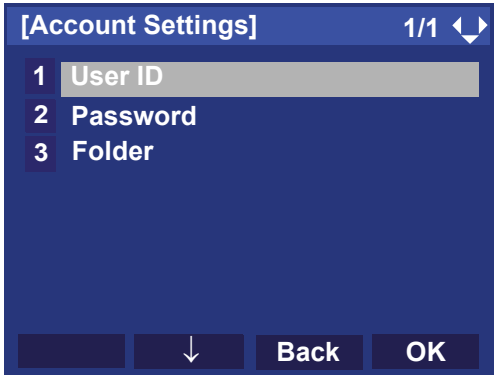
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (5) key.



STEP 8: Select 1 **User ID**.

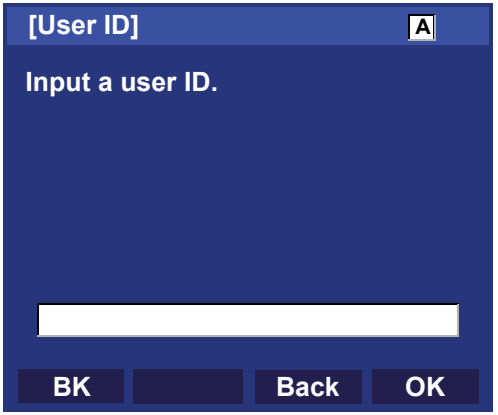
Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 1 key.



STEP 9: Enter a User ID by using digit keys, then press or the **OK** soft key

.

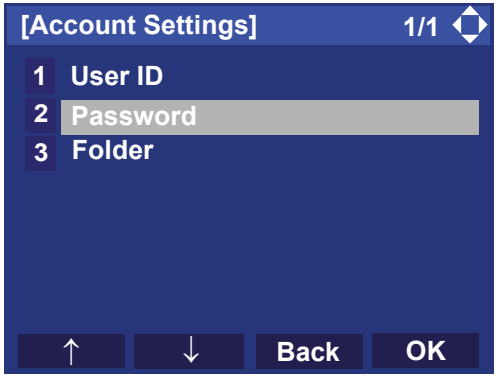


Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

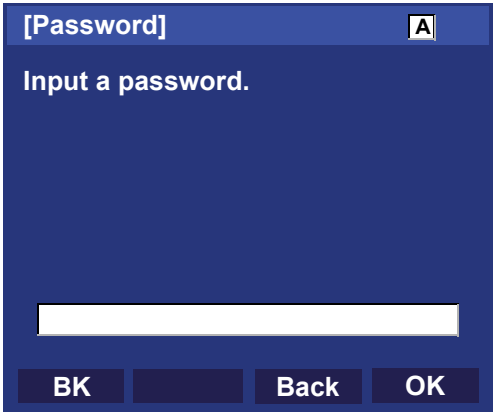
STEP 10: The display goes back to the **Account Settings** screen. Select 2 **Password**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 11: Enter a password by using digit keys, then press or the **OK** soft key.

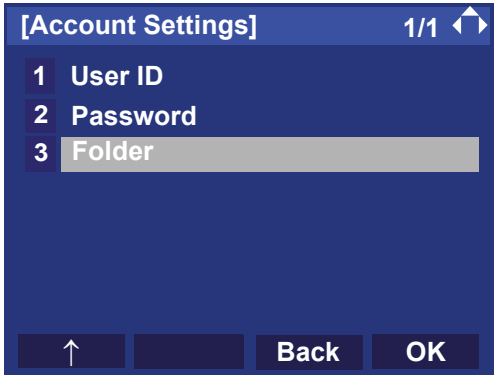


Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

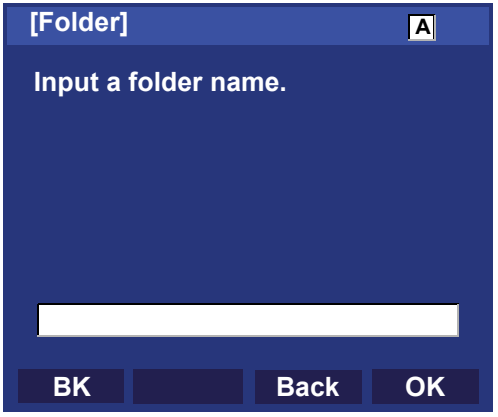
STEP 12: The display goes back to the **Account Settings** screen. Select 3 **Folder**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.

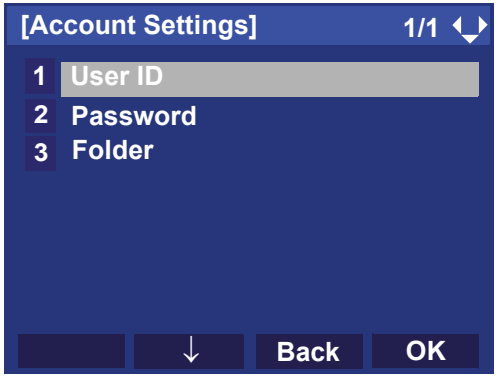


STEP 13: Enter the destination directory of the FTP/HTTPS server and then press or the **OK** soft key.



Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

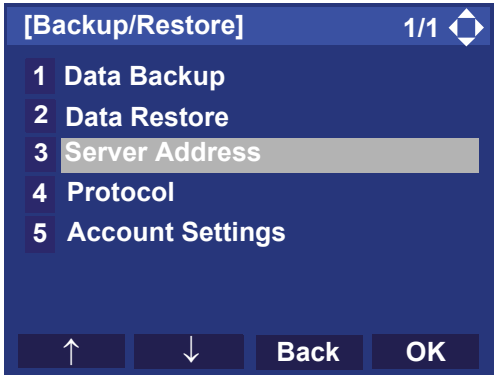
STEP 14:The display goes back to the **Account Settings** screen. Press or the **Back** soft key to display the **Backup/Restore** screen.



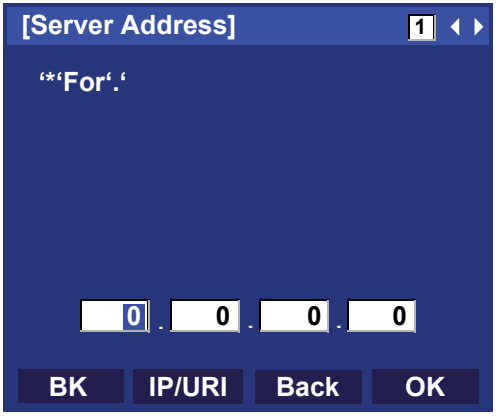
STEP 15:Select 3 **Server Address**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 16:Enter the IP address/URI of the destination FTP/TFTP/HTTPS server. For example, to set the IP address of 10.41.208.205, enter 10*41*208*205 [separate with an asterisk (*)].

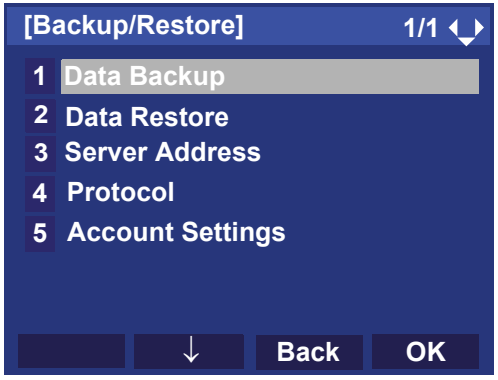


STEP 17:After entering the IP address, press or the **OK** soft key.

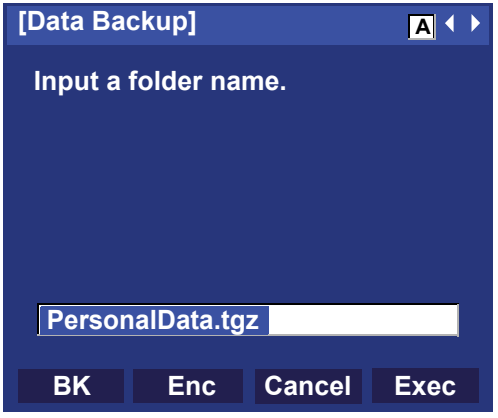
STEP 18:The display goes back to the **Backup/Restore** screen. Select 1 **Data Backup**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 1 key.



STEP 19:The default file name is displayed as follows:



Note: Do not change the extension of the backup file. The setting data of the telephone can only be backed up as a ".tgz" file.

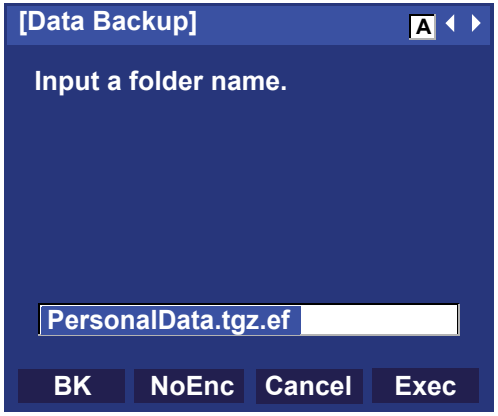
Note: When changing the default file name, press the **BK** soft key once to delete the default file name and then enter a new file name by using the digits keys.

Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

Note: A maximum of 20 characters ("0-9", "A-Z", "a-z", "*", "#", ".", "-" or "_") can be entered as a file name.

Note: To delete an entered character, press the **BK** soft key.

Press the **Enc** soft key to download the encrypted backup file.
The encrypted backup file name is displayed as “PersonalData.tgz.ef”.

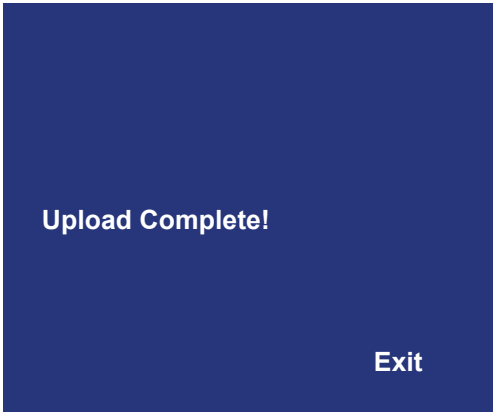


Note: If you make the unencrypted file, press the **NoEnc** soft key.

STEP 20: Press or the **Exec** soft key to start the data backup. While making a backup copy, the LCD displays “Uploading...” first and then “Saving...”.

Note: Be sure not to turn OFF the terminal while “Saving...” is displayed on the LCD.

STEP 21: After the data backup is complete, the display changes as follows:



The display goes back to the **Backup/ Restore** screen by the **Exit** soft key.

Note: When the data backup ends in failure, “Upload Failed!” is displayed on the LCD. Check to see the following and then make a retry.

Check Points	Actions
A different file name is specified between the terminal and the FTP/ TFTP/HTTPS server.	Set the same file name from both the terminal and FTP/ TFTP/HTTPS server.
Incorrect IP address of FTP/TFTP/HTTPS server has been entered from the telephone.	Set the proper IP address of the FTP/TFTP/HTTPS server.
The power to FTP/ TFTP/HTTPS server or network equipment is OFF.	Turn on the power.
LAN cable is disconnected.	Reconnect the cable securely.

• TO RESTORE PERSONAL SETTINGS

The DT820C Series user can restore the personal settings of the terminal. To download the backup file to the telephone, the terminal needs to be connected to the FTP/TFTP/HTTPS server.

Note: For details on the FTP/TFTP/HTTPS service, contact the system administrator.

Before starting the download, the IP Address/URI of the FTP/TFTP/HTTPS server must be entered from the terminal.

STEP 1: Set up the FTP/TFTP/HTTPS server.

<FTP server>

Put the backup file you want to restore into the designated directory (for Windows IIS, the default is “C:\InetPub\ftproot”) of the FTP server.

<TFTP server>

Put the backup file you want to restore into a desired directory of the TFTP server and then specify it as the directory for downloading.

<HTTPS server>

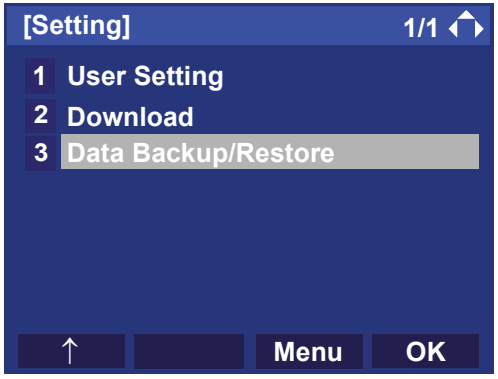
Put the backup file you want to restore into a desired directory of the HTTPS server and specify it as the directory for downloading.

STEP 2: Display the **Menu** screen, and select **Setting**.

STEP 3: Select [3] **Data Backup/Restore**.

Select an item by either of the following operations.

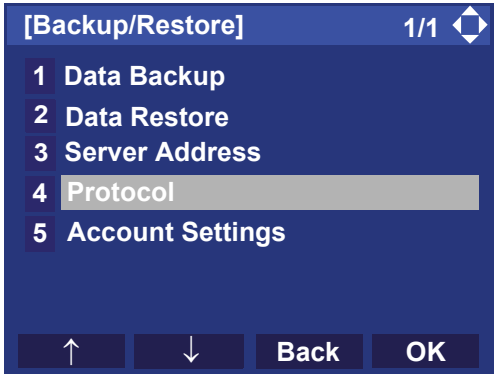
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



STEP 4: Select [4] **Protocol**.

Select an item by either of the following operations.

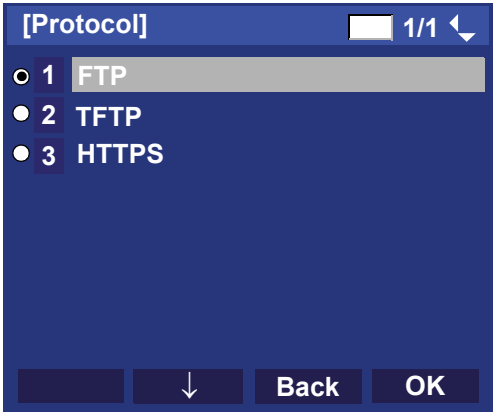
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (4) key.



STEP 5: Select a protocol used by the server which stores the backup file.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press or the **OK** soft key.
- Press (1), (2), or (3) key, and then press or the **OK** soft key.



STEP 6: The display goes back to the **Backup/Restore** screen.

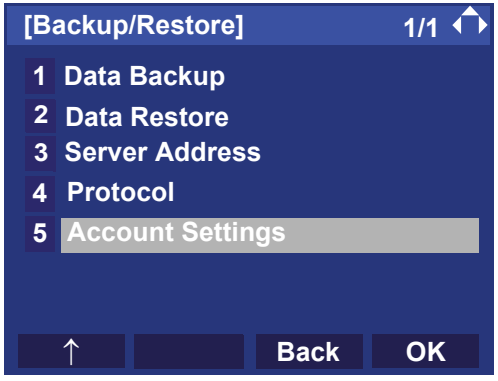
When [1] **FTP**/[3] **HTTPS** is selected here, go to STEP 7.

When [2] **TFTP** is selected here, go to STEP 15.

STEP 7: Select 5 **Account Settings**.

Select an item by either of the following operations.

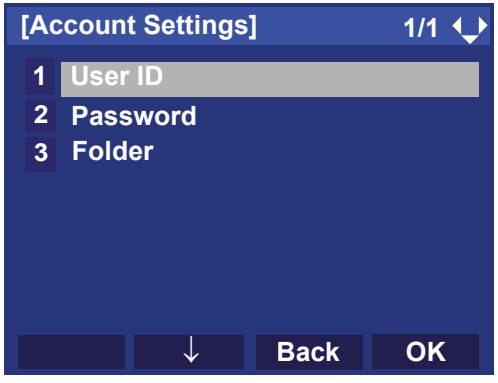
- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (5) key.



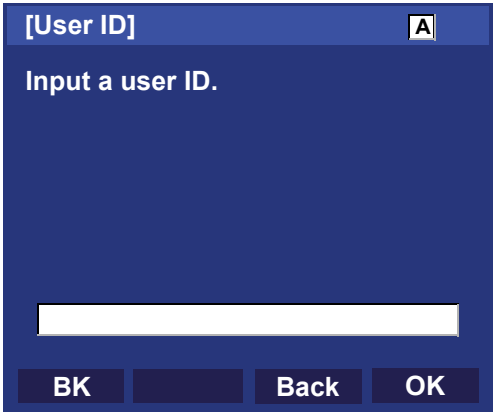
STEP 8: Select 1 **User ID**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (1) key.



STEP 9: Enter a User ID by using digit keys, then press or the **OK** soft key.

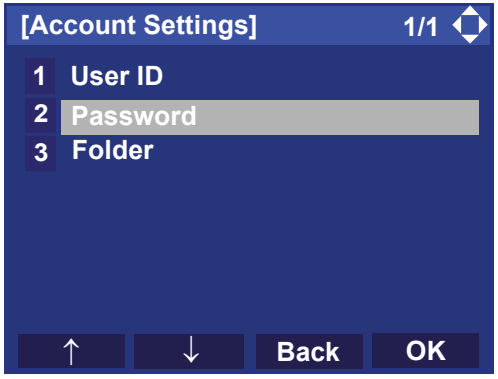


Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

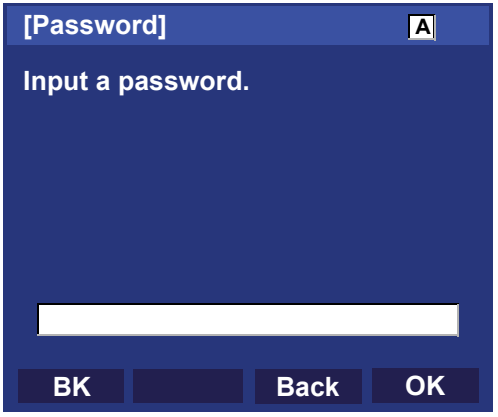
STEP 10: The display goes back to the **Account Settings** screen. Select 2 **Password**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 11: Enter a password by using digit keys, then press or the **OK** soft key.

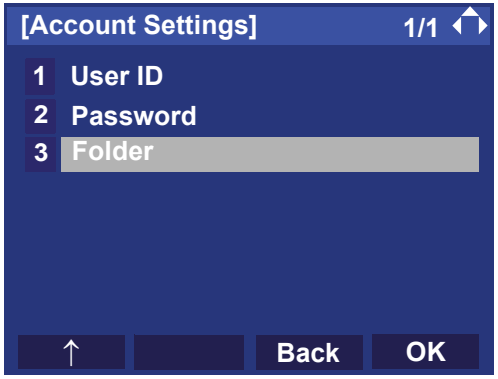


Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

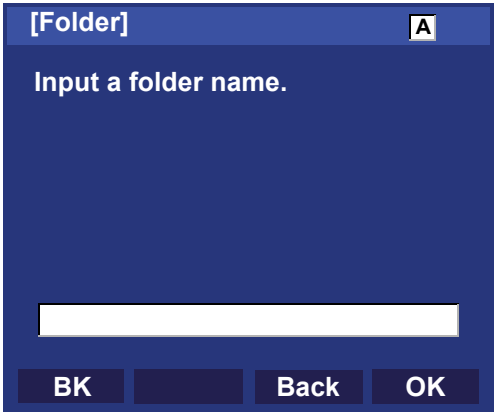
STEP 12: The display goes back to the **Account Settings** screen. Select 3 **Folder**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press 3 key.

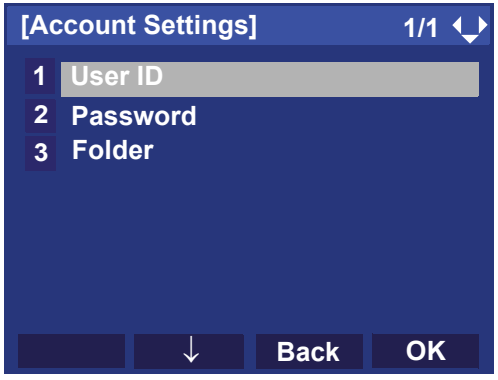


STEP 13: Enter the directory where the backup file is stored and then press or the **OK** soft key.



Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

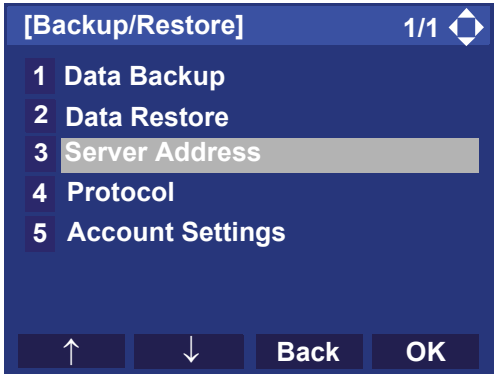
STEP 14:The display goes back to the **Account Settings** screen. Press or the **Back** soft key to display the **Backup/Restore** screen.



STEP 15:Select 3 **Server Address**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (3) key.



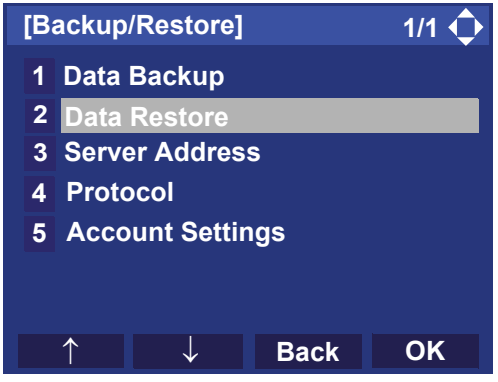
STEP 16:Enter the IP address/URI of the FTP/TFTP/HTTPS server which stores the backup file. For example, to set the IP address of 10.41.208.205, enter 10*41*208*205 [separate with an asterisk (*)].

STEP 17:After entering the IP address, press or the **OK** soft key.

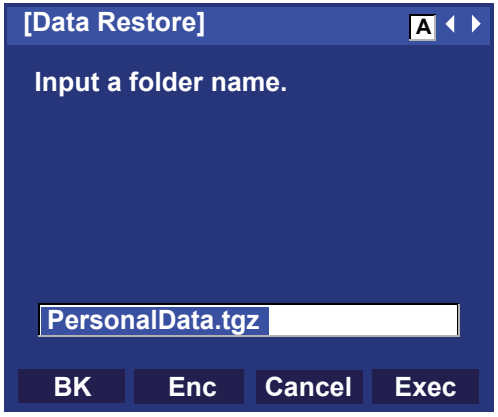
STEP 18:The display goes back to the **Backup/Restore** screen. Select 2 **Data Restore**.

Select an item by either of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and then press , or the **OK** soft key.
- Press (2) key.



STEP 19:The default file name is displayed as follows:



Note: Do not change the extension (.tgz) of the backup file. If the extension is changed, the file cannot be restored properly.

Note: When changing the default file name, press the **BK** soft key once to delete the default file name and then enter a new file name by using the digits keys.

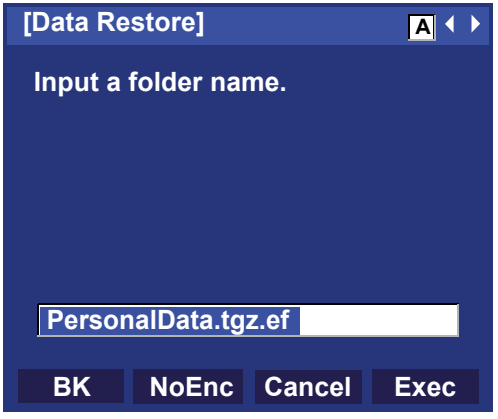
Note: For details on character entry method, see HOW TO INPUT CHARACTERS.

Note: A maximum of 20 characters (“0-9”, “A-Z”, “a-z”, “*”, “#”, “.”, “-” or “_”) can be entered as a file name.

Note: To delete an entered character, press the **BK** soft key.

Press the **Enc** to download the encrypted restore file.

The encrypted restore file name is displayed as “PersonalData.tgz.ef”.

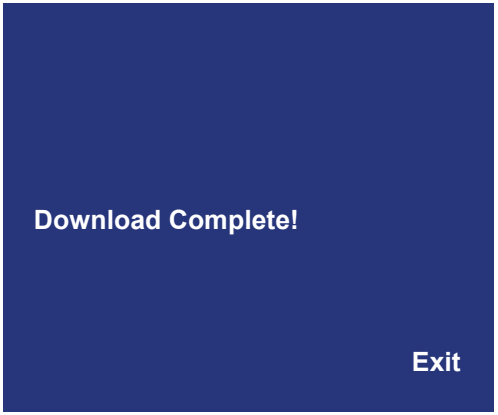


Note: If you make the unencrypted file, press the **NoEnc** soft key.

STEP 20: Press or the **Exec** soft key to start restoring the backup data to the telephone. While downloading the backup data, the LCD displays “Downloading...” first and then “Saving...”.

Note: Be sure not to turn OFF the terminal while “Saving...” is displayed on the LCD.

STEP 21: After the downloading process is complete, the display changes as follows:



The display goes back to the **Backup/Restore** screen by the **Exit** soft key.

Note: When the downloading process ends in failure, “Download Failed!” is displayed on the LCD. Check to see the following and then make a retry.

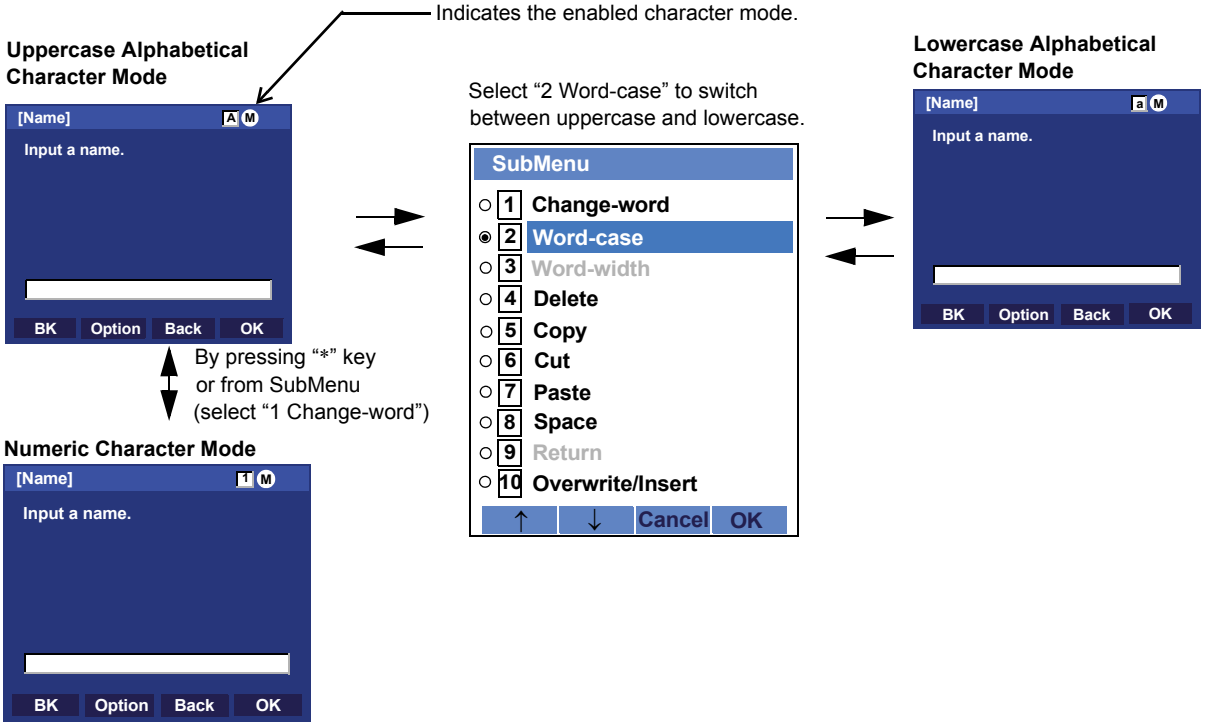
Check Points	Actions
Download file is not placed in the specified directory.	Place the download file in the specified directory.
A different file name is specified between the terminal and FTP/TFTP/HTTPS server.	Set the same file name from both the terminal and FTP/TFTP/HTTPS server.
Incorrect IP address of FTP/TFTP/HTTPS server has been entered from the telephone.	Set the proper IP address of FTP/TFTP/HTTPS server.
The power to FTP/TFTP/HTTPS server or network equipment is OFF.	Turn on the power.
LAN cable is disconnected.	Reconnect the cable securely.

HOW TO INPUT CHARACTERS

Here explains how to enter characters on the text input screen such as Name or User ID, etc.

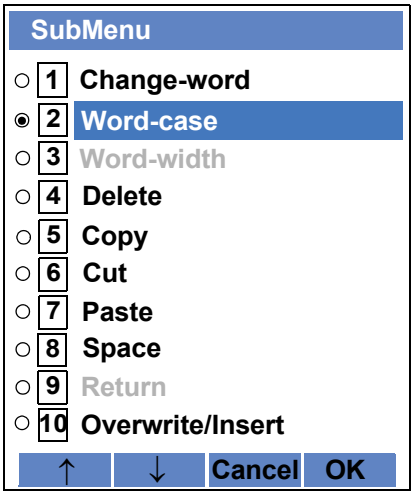
- **Character Entry Mode**

  When entering characters from the telephone set, the following three modes are available: uppercase alphabetical character, lowercase alphabetical character and numeric character. The character entry mode can be changed by pressing the ✳ (alphabetical / numeric) or from the SubMenu screen (uppercase / lowercase alphabet).



The enabled entry mode is indicated in the top portion of the LCD screen.

To display the SubMenu screen, press **Help** or **Option** while the text input screen is displayed. Also, the following operations are available from the SubMenu screen.



Submenu Items	Descriptions
Change-word	Change character entry mode between uppercase alphabetical, lowercase alphabetical and numeric character.
Word-case	Switch between uppercase and lowercase.
Word-width	Not used.
Delete	Delete a single character.
Copy	Copy the specified characters.
Cut	Cut the specified characters.
Paste	Paste the specified characters.
Space	Enter a space.
Return	Start a new line.
Overwrite/Insert	Write over existing characters.

- **Character Code List**

<Character Code For English (1/2)>

DIGIT KEY	CASE SHIFT	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th
1	A	.	,	\	1	?	!	“	@	:	;			
	a													
2	A	A	B	C	2									
	a	a	b	c	2									
3	A	D	E	F	3									
	a	d	e	f	3									
4	A	G	H	I	4									
	a	g	h	i	4									
5	A	J	K	L	5									
	a	j	k	l	5									
6	A	M	N	O	6									
	a	m	n	o	6									
7	A	P	Q	R	S	7								
	a	p	q	r	s	7								
8	A	T	U	V	8									
	a	t	u	v	8									
9	A	W	X	Y	Z	9								
	a	w	x	y	z	9								
0	A	[SP]	0											
	a													

<Character Code For English (2/2)>

		1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
	A a	*	#	.	/	:	~	!	@	$	%
		11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
# Note	A a	^	&	(	)	'	?	"	_	+	-
		21th	22th	23th	24th	25th	26th	27th	28th	29th	30th
	A a	=	[	]	{	}	<	>	,	;	\
* Note	Used as a case shift key. Shifts the characters between alphabetical and numeric.										

Note: **(#) and (*) are the same for European languages other than English, including Russian and Turkish.**

<Character Code For Russian>

DIGIT KEY	CASE SHIFT	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th
1	A	.	,	:	!	?	+	-	%	&	/	(	)	=	¿	¡
	a															
2	A	А	Б	В	Г											
	a	а	б	в	г											
3	A	Д	Е	Ё	Ж	З										
	a	д	е	ё	ж	з										
4	A	И	Й	К	Л											
	a	и	й	к	л											
5	A	М	Н	О	П											
	a	м	н	о	п											
6	A	Р	С	Т	У											
	a	р	с	т	у											
7	A	Ф	Х	Ц	Ч											
	a	ф	х	ц	ч											
8	A	Ш	Щ	Ъ	Ы	Ь										
	a	ш	щ	ъ	ы	ь										
9	A	Э	Ю	Я												
	a	э	ю	я												
0	A	[SP]														
	a															

Note: **(#) and (*) are the same for English.**
Refer to the <Character Code For English (2/2)>.

<Character Code For Turkish>

DIGIT KEY	CASE SHIFT	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th
1	A	.	,	:	!	?	+	-	%	&	/	(	)	=	¿	¡
	a															
2	A	A	B	C	Ç											
	a	a	b	c	ç											
3	A	D	E	F												
	a	d	e	f												
4	A	G	Ğ	H	I	İ										
	a	g	ğ	h	ı	i										
5	A	J	K	L												
	a	j	k	l												
6	A	M	N	O	Ö											
	a	m	n	o	ö											
7	A	P	R	S	Ş											
	a	p	r	s	ş											
8	A	T	U	Ü	V											
	a	t	u	ü	v											
9	A	Y	Z													
	a	y	z													
0	A	[SP]														
	a															

Note: **(#) and (*) are the same for English.**
Refer to the <Character Code For English (2/2)>.

<Character Code For Azerbaijani>

DIGIT KEY	CASE SHIFT	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th
1	A	.	,	:	!	?	+	-	%	&	/	(	)	=	¿	¡	.
	a																
2	A	A	B	C	Ç												
	a	a	b	c	ç												
3	A	D	E	Ə	F												
	a	d	e	ə	f												
4	A	G	Ğ	H	I	İ											
	a	g	ğ	h	ı	i											
5	A	J	K	L													
	a	j	k	l													
6	A	M	N	O	Ö												
	a	m	n	o	ö												
7	A	P	Q	R	S	Ş											
	a	p	q	r	s	ş											
8	A	T	U	Ü	V												
	a	t	u	ü	v												
9	A	X	Y	Z													
	a	x	y	z													
0	A	[SP]															
	a																
#	A	*	#	~	@	$	^	'	_	[	]	{	}	<	>	;	\
	a																

Note: ✳ **is the same for English.**
Refer to the <Character Code For English (2/2)>.

<Character Code For EMEA>

DIGIT KEY	CASE SHIFT	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th
1	A	.	,	:	!	?	+	-	%	&	/	(	)	=	¿	¡
	a															
2	A	A	B	C	À	Á	Â	Ã	Ä	Å	Æ	Ç				
	a	a	b	c	à	á	â	ã	ä	å	æ	ç				
3	A	D	E	F	È	É	Ê	Ë								
	a	d	e	f	è	é	ê	ë								
4	A	G	H	I	Ì	Í	Î	Ï								
	a	g	h	i	ì	í	î	ï								
5	A	J	K	L												
	a	j	k	l												
6	A	M	N	O	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	Ø				
	a	m	n	o	ñ	ò	ó	ô	õ	ö	œ	ø				
7	A	P	Q	R	S	ß										
	a	p	q	r	s	ß										
8	A	T	U	V	Ù	Ú	Û	Ü								
	a	t	u	v	ù	ú	û	ü								
9	A	W	X	Y	Z											
	a	w	x	y	z											
0	A	[SP]														
	a															

Note: **(#) and (*) are the same for English.**
Refer to the <Character Code For English (2/2)>.

<Number Code>

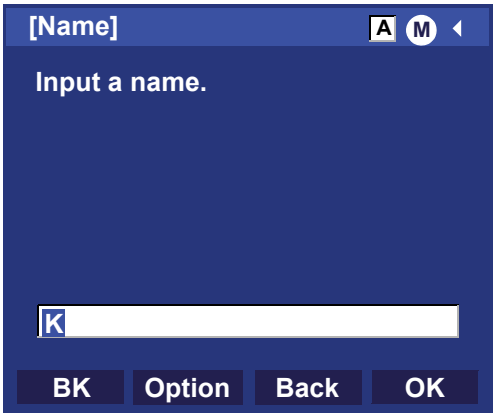
DIGIT KEY	CASE SHIFT	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th
1	1	1														
2	1	2														
3	1	3														
4	1	4														
5	1	5														
6	1	6														
7	1	7														
8	1	8														
9	1	9														
0	1	0														
#	1	*	#	.	@	/	(	)	,	-	_	:	‘	~	&	\
*	1	Used as a case shift key. Shifts the characters between alphabetical and numeric.														

Note: *** When entering password, “0-9”, “*” and “#” are available.**
“#” is entered by pressing (#).
“*” is entered by pressing (*).

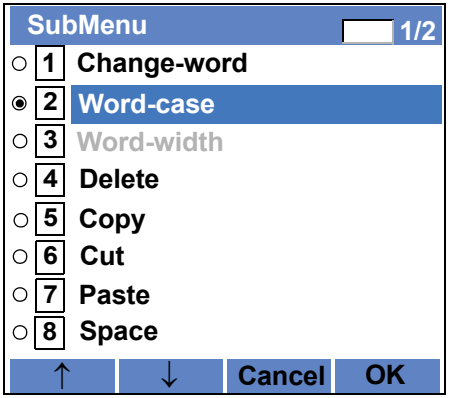
- **Character Entry Method**

  As an example of character entry method, the following shows how to enter "**Ken Kobus**".

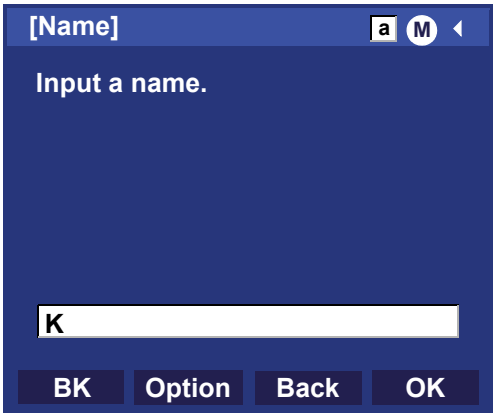
STEP 1: Press (5) twice to enter "**K**".



STEP 2: Press **Help** or the **Option** to display Sub-Menu screen, and select 2 **Word-case** to switch the text input mode from uppercase to lowercase.



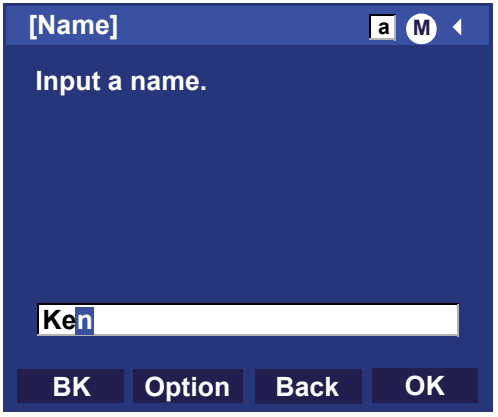
STEP 3: Press (Enter) or the **OK** key on the Sub-Menu to go back to the text input screen.



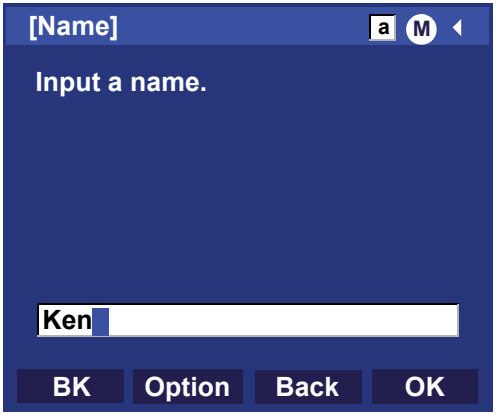
STEP 4: Enter "**en**" by using digit keys.

Press (3) twice to enter "e".

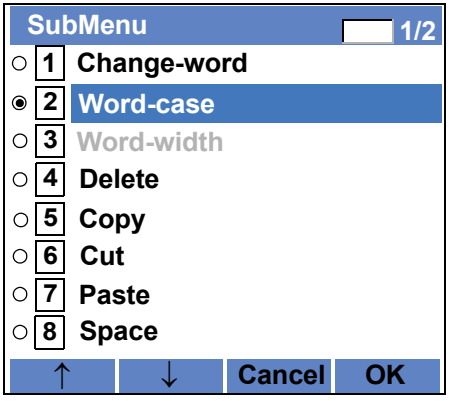
Press (6) twice to enter "n".



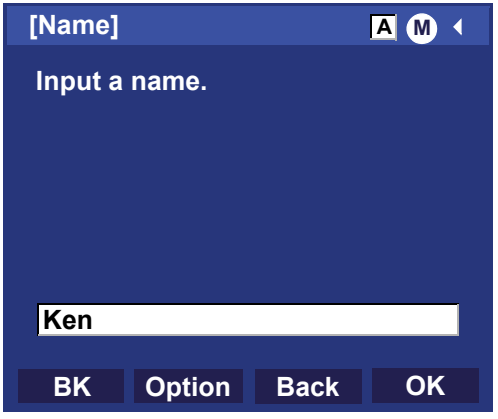
STEP 5: Press (0) once to enter a space.



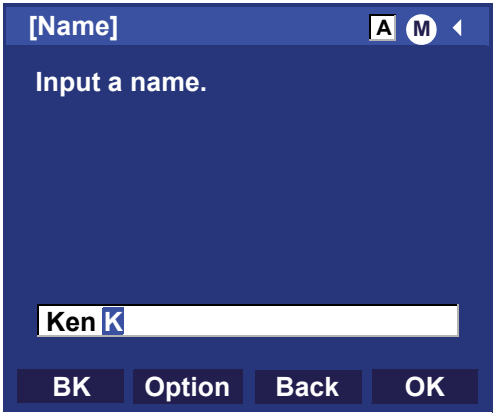
STEP 6: Press **Help** or the **Option** to display Sub-Menu screen, and select 2 **Word-case** to switch the text input mode from lowercase to uppercase.



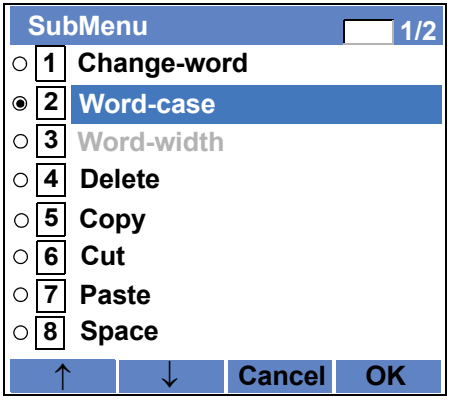
STEP 7: Press (Enter) or the **OK** key on the Sub-Menu to go back to text input screen.



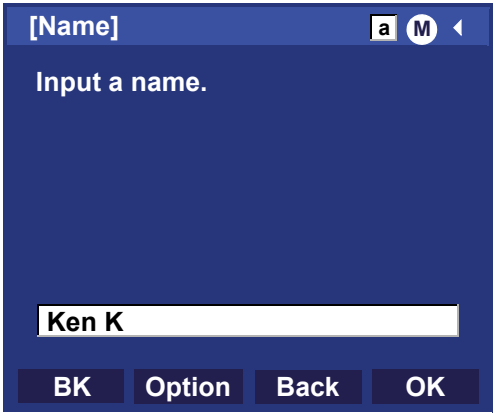
STEP 8: Press (5) twice to enter "**K**".



STEP 9: Press **Help** or the **Option** to display Sub-Menu screen, and select 2 **Word-case** to switch the text input mode from lowercase to uppercase.

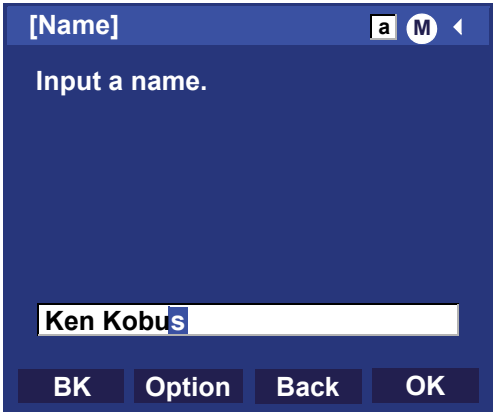


STEP 10: Press (Enter) or the **OK** key on the Sub-Menu to go back to text input screen.



STEP 11: Enter "**obus**" by using digit keys.

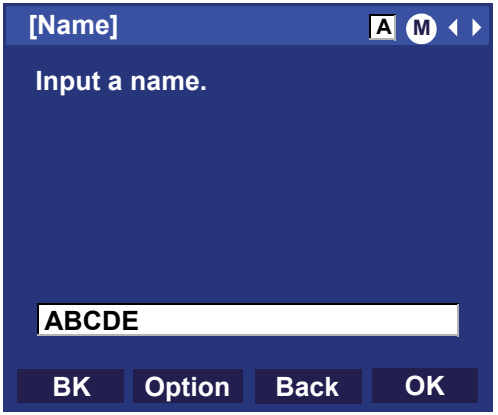
Press (6) three times to enter "o".
Press (2) twice to enter "b".
Press (8) twice to enter "u".
Press (7) four times to enter "s".



STEP 12: Press (Enter) or the **OK** key.

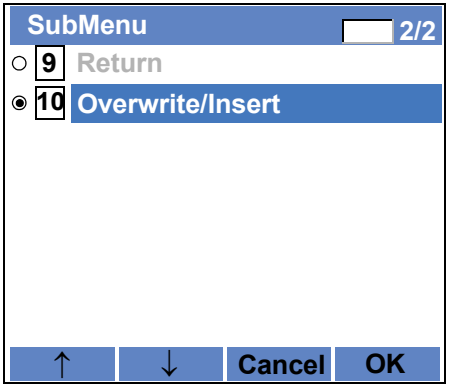
- **To Overwrite Characters**

STEP 1: Place the cursor at the left of the characters to be overwritten.

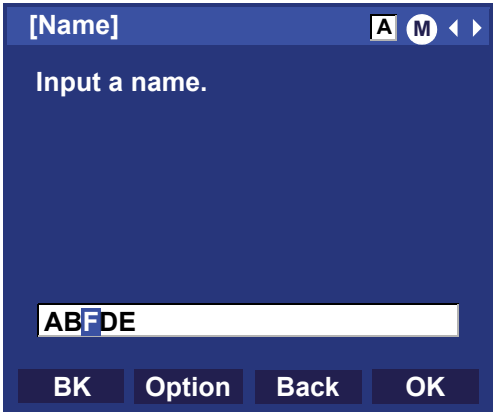


STEP 2: Press **Help** or the **Option**.

STEP 3: On the following SubMenu screen, select 10 **Overwrite/Insert** and press (**Enter**), (**Right-cursor**) or the **OK** key.

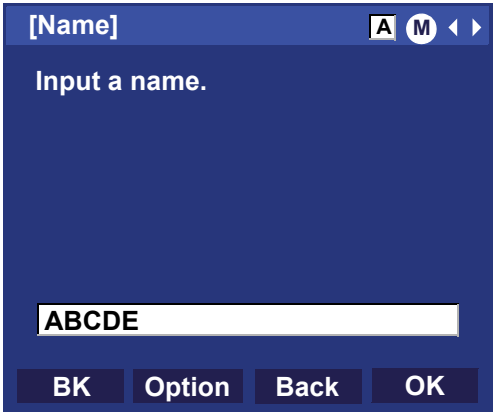


STEP 4: Enter new words over existing characters. In this example, “F” is entered.

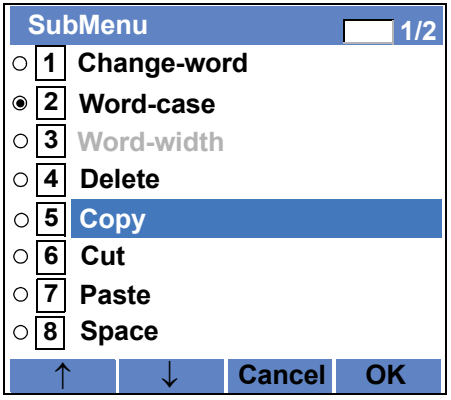


- **To Copy and Paste Characters**

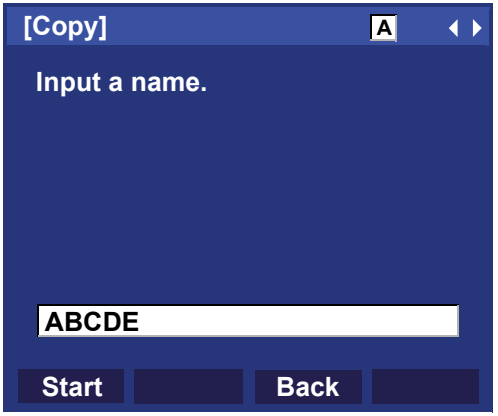
STEP 1: While characters which you want to copy are displayed, press **Help** or the **Option**.



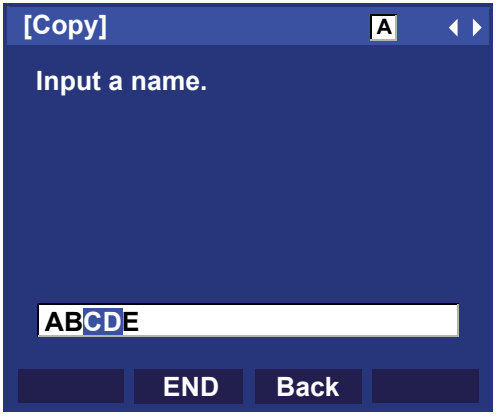
STEP 2: On the SubMenu screen, press (**Enter**) or the **OK** while 5 **Copy** is highlighted, or press 5.



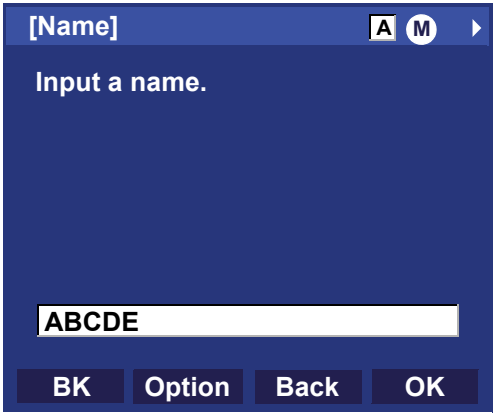
STEP 3: Place the cursor at the starting point of the target characters by using (**Left-cursor**) and press **Start**.



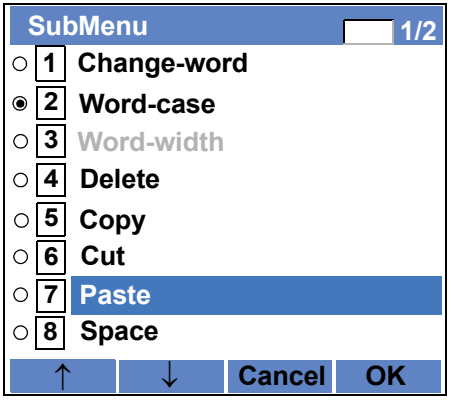
STEP 4: Place the cursor at the end point of the target characters (**Right-cursor**) and press **END**.



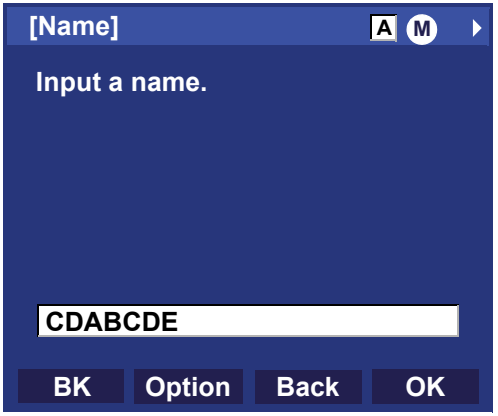
STEP 5: Place the cursor at position where you want to paste the copied characters and press **Help** or the **Option**.



STEP 6: On the SubMenu screen, select 7 **Paste** and press (**Enter**), (**Right-cursor**) or the **OK** key. (or press 7 .)



STEP 7: The copied characters “CD” are inserted as follows:



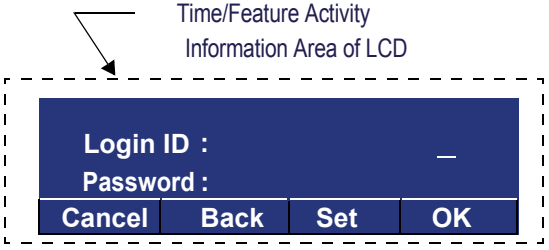
4. Basic Operation

This chapter describes the following basic operation of DT820C Series.

- TO LOG IN
- TO LOG OUT
- TO MAKE AN EXTERNAL CALL
- TO MAKE AN INTERNAL CALL
- TO ANSWER AN EXTERNAL CALL
- TO ANSWER AN INTERNAL CALL
- MULTILINE OPERATION
- TO HOLD A CALL
- TO PLACE A CALL ON EXCLUSIVE HOLD
- TO TRANSFER A CALL
- XML APPLICATION
- SCREEN POP-UP

TO LOG IN

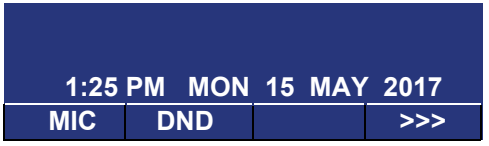
STEP 1: When the login mode is activated, the telephone prompts for Login ID and Password.



STEP 2: Enter the login code and press the **Set** soft key. (A station number is used as the Login code.)

STEP 3: Enter the password and press the **OK** soft key.

STEP 4: If the login code is accepted, the display changes to a normal idle state.



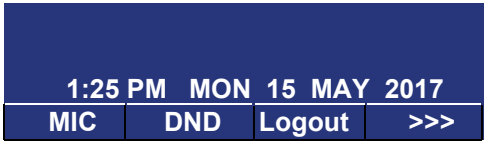
Note: The LCD can display the My Line information (name and station number) when the station is in an idle state. For details, please contact the system administrator.

TO LOG OUT

STEP 1: Press the preassigned **Logout** Feature key or the **Logout** soft key on the terminal.

Note: The following soft key location is an example.

Note: The **Logout** Feature key must be programmed in advance. For the programming of the **Logout** key, contact the system administrator.



STEP 2: "**LOGOUT?**" is displayed on the LCD of the terminal.

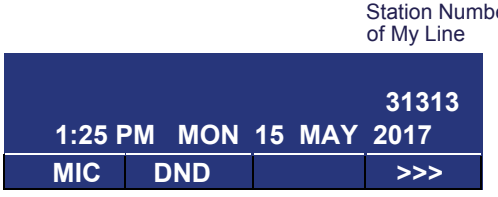
STEP 3: Press the **Logout** Feature key or the **L-OUT** soft key on the terminal again. The terminal displays the Login screen.

TO MAKE AN EXTERNAL CALL

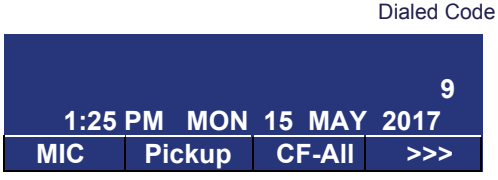
When a dialed telephone number is registered in Local Phonebook, the corresponding name information will be displayed on LCD of the terminal while you are hearing a ringback tone or are engaged in a conversation. According to the initial settings, the display may differ from the following examples. For more information, contact the system administrator.

Note: This section describes the Normal Dial Mode. Regarding the other mode, see TO ORIGINATE A CALL USING SELECTIVE DIALING (DYNAMIC DIAL PAD, PRESET DIAL) in Chapter 5.

STEP 1: Lift handset or press the **Speaker** key, receive dial tone.



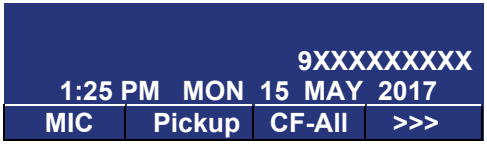
STEP 2: Dial the Central Office access code, e.g. **9**.



STEP 3: Dial the desired telephone number.

(while hearing a ringback tone)

Dialed Code + Number



STEP 4: Use a handset or MIC to start a conversation.

Display indicates:

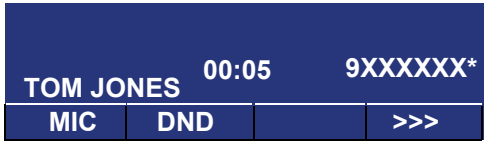
(while in a conversation)

- When the dialed number is registered in Phonebook.

Name Information registered in Personal Directory

Elapsed Time

Dialed Code + Number

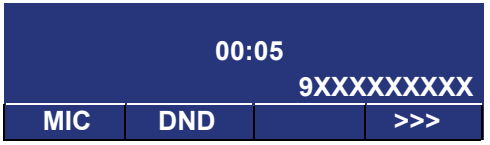


Note: In the above case, a maximum of eight digits of the number (including "*") can be displayed. If the dialed number exceeds eight digits, "the first seven digits of the number" + "*" or "the last seven digits of the number "+ "*" are displayed. For more information, please contact the system administrator.

- When the dialed number is not registered in Phonebook.

Elapsed Time

Dialed Code + Number



Note: My Line is an actual line that is directly associated with station number of the telephone. You can make/answer a call via this line. Usually, My Line is seized automatically only by lifting the handset or pressing the **Speaker** key.

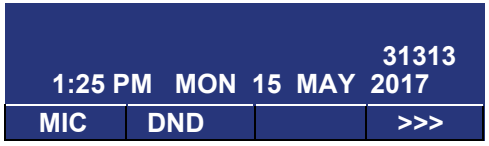
TO MAKE AN INTERNAL CALL

When a dialed station number is registered in Phonebook, the corresponding name information will be displayed on LCD of the terminal while you are hearing a ringback tone or are engaged in a conversation. According to the initial settings, the display may differ from the following examples. For more information, contact the system administrator.

Note: Here describes the Normal Dial Mode. About the other mode, see TO ORIGINATE A CALL USING SELECTIVE DIALING (DYNAMIC DIAL PAD, PRESET DIAL) in chapter 5.

STEP 1: Lift the handset or press the **Speaker** key, receive dial tone.

Blink → Station Number of My Line



STEP 2: Dial the desired station number. Display indicates digits dialed.

(while hearing a ringback tone)

- When the dialed station number is registered in the Phonebook

Name Information registered in Personal Directory

Dialed Station Number

- When the dialed station number is not registered in the Phonebook

Dialed Station Number

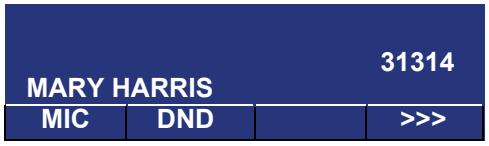
STEP 3: Use the handset or MIC to start a conversation.

(while in a conversation)

- When the dialed station number is registered in the Phonebook

Name Information registered in Personal Directory

Dialed Station Number



- When the dialed station number is not registered in the Phonebook

Dialed Station Number

Note: My Line is an actual line that is directly associated with the station number of the telephone. You can make/answer a call via this line. Usually, My Line is seized automatically only by lifting the handset or pressing the **Speaker** key.

TO ANSWER AN EXTERNAL CALL

When a calling party telephone number is registered in the Phonebook, the corresponding name information is displayed on the LCD while you are hearing a ringing tone or are engaged in a conversation. According to the initial settings, the display may differ from the above example. For more information, contact the system administrator.

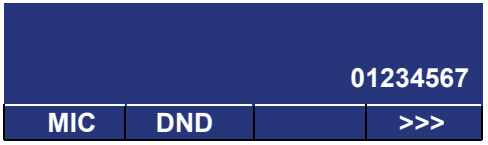
STEP 1: You hear the ringing tone. A call indicator flashes red while hearing the ring tone.

- When a calling party telephone number is registered in the Phonebook

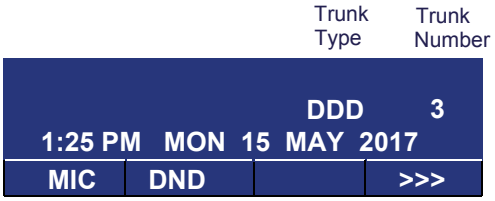
Name Information registered in Personal Directory

- When a calling party telephone number is not registered in the Phonebook

Calling Party Telephone Number



- When a caller ID is not received

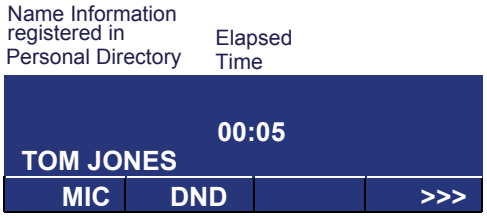


STEP 2: Press the **Answer** key or touch the appropriate Line Key.

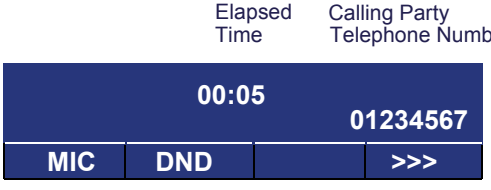
STEP 3: Lift the handset to answer the call.

(while in a conversation)

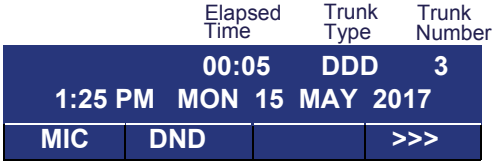
- When a calling party telephone number is registered in the Phonebook



- When a calling party telephone number is not registered in the Phonebook



- When a caller ID is not received



Note: When an incoming call is terminated to My Line of the telephone, you can usually answer the call only by lifting the handset or pressing the **Speaker** Key.

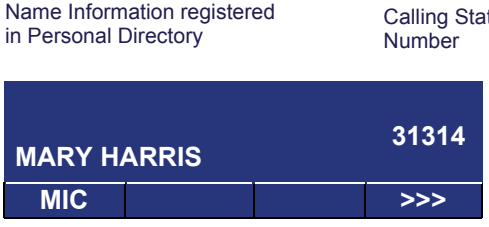
TO ANSWER AN INTERNAL CALL

The following procedure explains how to answer an internal call routed to My Line of the telephone.

When a calling station number is registered in the Phonebook, the corresponding name information is displayed on the LCD while you are hearing a ringing tone or are engaged in a conversation. According to the initial settings, the display may differ from the above example. For more information, contact the system administrator.

STEP 1: You hear the ringing tone. A call indicator flashes red while hearing the ring tone.

- When a calling station number is registered in the Phonebook



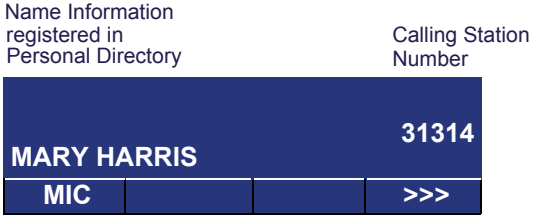
- When a calling station number is not registered in the Phonebook

STEP 2: Press the **Answer** key or touch the appropriate Line Key.

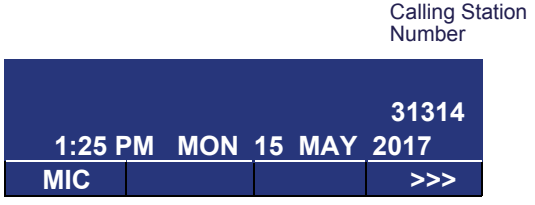
STEP 3: Lift the handset to answer the call.

(while in a conversation)

- When a calling station number is registered in the Phonebook



- When a calling station number is not registered in the Phonebook



Note: When an incoming call is terminated to My Line of the telephone, you can usually answer the call only by lifting the handset or pressing the **Speaker** Key.

MULTILINE OPERATION

You can answer an incoming call to the other station to press the **MULTILINE** key (which is preassigned the other station number).

To Originate a Call

STEP 1: Press the **MULTILINE** key.

STEP 2: Lift the handset or press the **Speaker** key. Dial the Central Office access code (i.e. 9 (US), 0 (Aust)).

STEP 3: Dial the desired number.

To Answer a Call

STEP 1: Press the **MULTILINE** key (ringing and flashing LED alert user to incoming call).

STEP 2: Lift the handset or press the **Speaker** key.

STEP 3: Speak with the incoming party.

TO HOLD A CALL

STEP 1: Press the **Hold** key. The held line key wink flashes.

Held Station Number

Note: If a held line appears on other DT820C Series stations, the associated LED flashes red slowly.

To Retrieve

STEP 1: Lift the handset or press the **Speaker** key.

STEP 2: Press the held line key. Use the handset to converse.

Note: Any station with this line key appearance can retrieve the call.

If unanswered

STEP 1: After preprogrammed time, Automatic Recall is initiated.

STEP 2: Visual and audible signal (rapid flash and ring burst) is sent to the station that placed call on hold.

Note: Hold shows as a flashing green LED on your phone. The same line on other phones shows as a flashing red LED. **Recall** shows as a flashing green LED on your phone and flashing red LED on other phones with the same line.

TO PLACE A CALL ON EXCLUSIVE HOLD

STEP 1: Press the **Hold** key twice. The Line key appearance indicates interrupted wink.

Held Station Number

Note: If the held line key appears on other stations, the LED remains steadily lit red.

To Retrieve

STEP 1: Lift the handset or press the **Speaker** key.

STEP 2: Press the held line key. Use the handset to converse.

Note: Only the terminal that set Exclusive Hold option can retrieve the call.

If unanswered

STEP 1: After preprogrammed time, Automatic Recall is initiated.

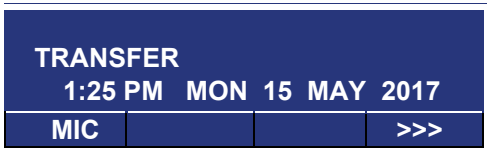
STEP 2: Visual and audible signal (rapid flash and ring burst) is sent to the station which placed call on Exclusive Hold. **Recall** shows as a flashing green LED on your phone, and solid red on other phones with same line.

Note: Exclusive Hold excludes any other phone from picking up your held call. Exclusive Hold shows as a flashing green LED on your phone. The same line on other phones appears as a solid red LED.

TO TRANSFER A CALL

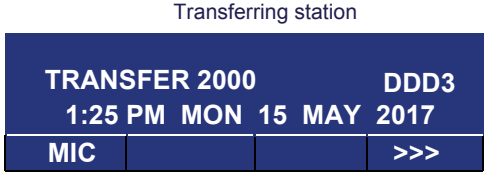
STEP 1: After conversing, ask the other party to hold.

STEP 2: Press the **Transfer** key. Receive interrupted dial tone.



STEP 3: Dial the destination station's extension, hang up or wait for the answer.

STEP 4: If the transferring party hangs up, that station's number appears in the center of recipient's display.



XML APPLICATION

DT820C has an XML browser function. You can display the information of XML application installed in an external server onto the LCD of DT820C and use various services in collaboration with the XML application.

Also, it is possible to launch multiple applications (up to 4 applications) simultaneously, and you can switch the screen quickly. If you receive an incoming call while displaying an application screen, you can answer the call without exiting the application. You can restart the suspended application by pressing an icon of itself.

The following explains how to start the XML application from DT820C. For more information, refer to manuals relating to XML applications.

To start up XML application

When you start up the phone, the application screen, which is registered as home URL, is displayed automatically.

To switch XML applications

From the menu screen displays XML application icons, XML applications can be switched.

STEP 1: Press **Menu** key to display the menu screen.

The icons of running XML applications are displayed on the menu screen.

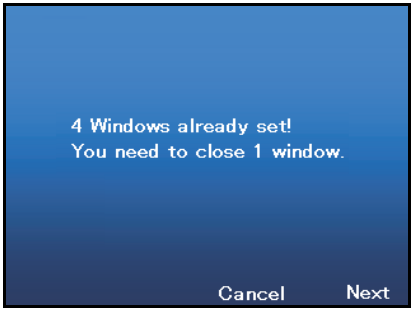
Select an application icon you want to display on the menu screen.

To exit XML applications

While an XML application screen is displayed, press **Exit** key to exit the application. After the XML application is exited, the icons of the running applications are aligned to the top of the Menu screen from the above.

When a fifth application is launched

You can launch up to four XML applications including Portal at a time. If you try to launch a fifth application, a notification message to ask you to exit one of the currently running applications is displayed.



While this error message is displayed, you cannot execute any operations on XML applications.

Note: If you do not operate anything for 10 seconds after an error message is displayed, the trial of launching the new application is automatically canceled.

When you press the **Next** key, the application exit screen appears. On the exit screen, the currently running XML application icons excluding Portal are displayed. Select an application icon you want to exit and then press icon.

The selected application exits. Now, you can launch a new application.

SCREEN POP-UP

When you receive an incoming call while an application screen (History, Directory, or XML application) is displayed, you can suspend the application and answer the incoming call.

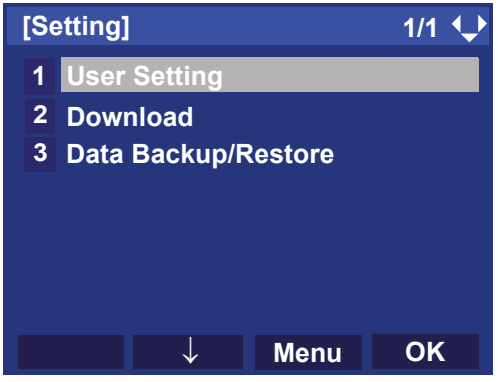
To set the screen pop-up function

STEP 1: Press **Menu** key to display the menu screen. Then, select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

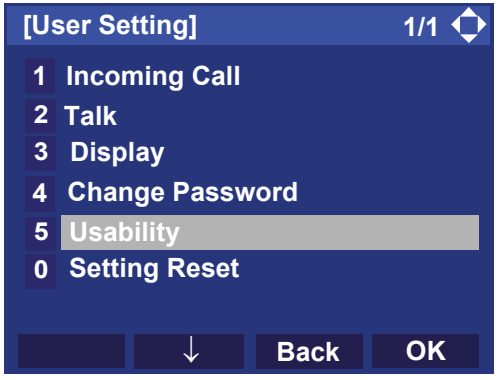
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** soft key.
- Press (1) key.



STEP 3: Select 5 **Usability**.

Select an item by one of the following operations.

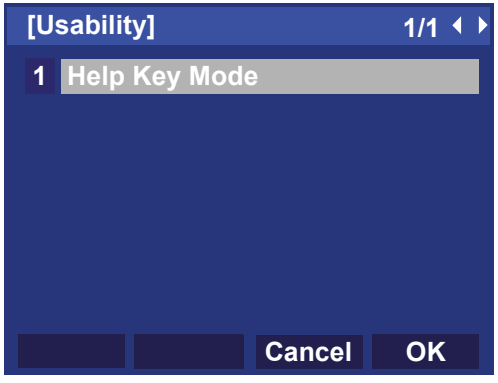
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** soft key.
- Press (5) key.



STEP 4: Select 1 **Help Key Mode**.

Select an item by one of the following operations.

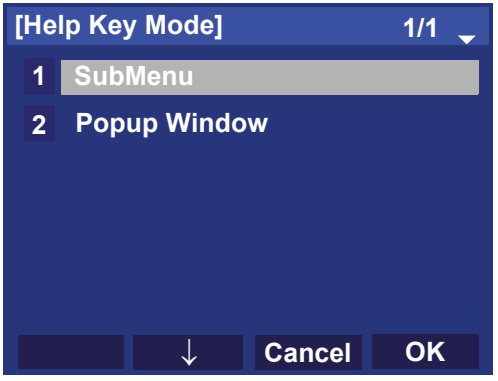
- Press , or the **OK** soft key.
- Press (1) key.



STEP 5: Select a desired mode of the **Help** key.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** soft key.
- Press (2) key, and press or the **OK** soft key.



Menu Item	Meaning
1 Sub Menu	Set the **Help** key which displays sub menu
2 Popup Window	Set the **Help** key which displays pop-up window

To use the screen pop-up function

The following shows an example of an operation to display a pop-up screen when you receive an incoming call while setting menu is being displayed.

STEP 1: When you receive an incoming call while setting menu is displayed, call indicator lamp and line key flash red.

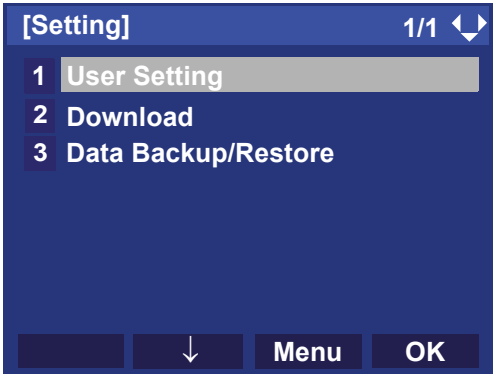
Line key **Answer key** **Call Indicator Lamp**

STEP 2: To open the pop-up screen and confirm incoming call number, when you set Help Key Mode as Sub Menu, press **Menu** key to display the menu screen and press the soft key 1. When you set Help Key Mode as Pop-up Window, press the **Help** key.

To answer the incoming call, lift the handset. If you do not answer the call and continue to the terminal setting, press **Menu** key to display the menu screen. And highlight the parameter using ◎, and then press ◎ key.

Note: Pop-up screen cannot be closed by pressing the **Exit** key.

When you finish a conversation, hang up the handset. And you can go back to the screen of setting menu.



5. FEATURE OPERATION

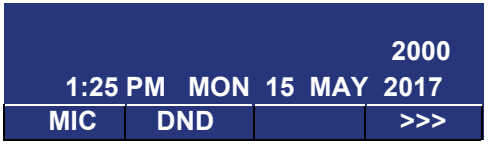
TO ORIGINATE A CALL USING SELECTIVE DIALING (DYNAMIC DIAL PAD, PRESET DIAL)

Dynamic Dial Pad

STEP 1: Enter desired telephone number (Digit keys 0-9, *, and #).

STEP 2: An LED on the **Speaker** key lights. Hear the key touch tone.

STEP 3: The dialed number appears on the top of LCD.

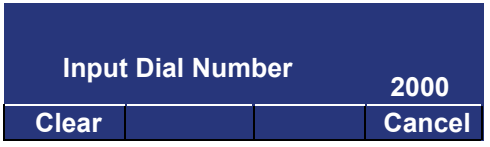


Note: Pressing the **Speaker** key or going off-hook is not necessary.

Preset Dial

STEP 1: Enter the desired telephone number (Digit keys 0-9, *, and #).

STEP 2: The dialed number appears on the top of LCD.



STEP 3: Lift the handset or press the **Speaker** key.

- OR -

STEP 3: Press the originating Line key and lift the handset.

Note: Originating call operation is cancelled by the following soft key operation;
- Press the **Exit** key or **Cancel** key.
- Press the **Clear** key to cancel by one digit.

TO ORIGINATE A CALL USING SPEED CALLING (ONE-TOUCH SPEED CALLING KEYS)

STEP 1: Press the desired **One-Touch Speed Calling** key, or press the **Speaker** key and **One-Touch Speed Calling** key.

To Program

(Available only on the terminal with the **One-Touch Speed Calling** key.)

STEP 2: Press the **Transfer** key.

STEP 3: Press the desired **One-Touch Speed Calling** key.

STEP 4: Enter the desired telephone number or feature access code on the keypad.
Display indicates the digits dialed.

STEP 5: Press the **Feature** key again to save the number.

To Verify

STEP 2: Press the **Feature** key.

STEP 3: Press the desired **One-Touch Speed Calling** key.

STEP 4: Display indicates digits programmed.

Note: To program a hook switch for transfer or feature activation, press the **Recall** key as first digit. (**!** displays on LCD.)

Note: To program a pause, press the **Recall** key as any digit other than the first digit. (**–** displays on LCD.)

Note: To program a Voice Call, press **Transfer** key after dialing station number. (**VOICE** displays on LCD.)

Note: The **One-Touch Speed Calling** key for a feature access:
The **One-Touch Speed Calling** key may be used as a feature key by storing the feature access code. The features may be programmed on a system basis by the Telephony Server administrator. Access codes may be stored in conjunction with telephone numbers. For example, you can program one button to transfer to a certain extension.

LCD Indication of DESI-less screen

STEP 1: Press the desired **One-Touch Speed Calling** key and originate a call.
Registered name will be displayed. For the key to which no name information is registered, the character “SPD” is displayed.

When registering Name Information of One-touch Speed Calling, you can use alphabetic characters.

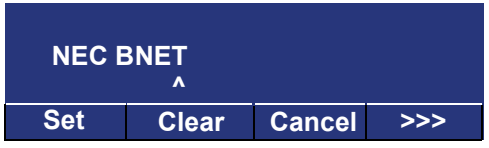
Note: For details of available characters, see TO REGISTER NAME ON ONE-TOUCH SPEED CALLING KEY.

TO REGISTER NAME ON ONE-TOUCH SPEED CALLING KEY

STEP 1: Press the **NAME** soft key.

STEP 2: Press the desired **One-Touch Speed Calling** key.

STEP 3: Enter desired name on the keypad.
Display indicates the name entered.



STEP 4: Press the **Set** to save the name.

Note: To delete the entry, press the **DEL** or the **BK** soft key and delete each one character.

Note: To delete the whole setting, press the **Clear** soft key and back to an idle state.

To Register Speed Calling Number On DESI-less Screen

STEP 1: Follow the procedure of To Program in TO ORIGINATE A CALL USING SPEED CALLING (ONE-TOUCH SPEED CALLING KEYS)

- Available characters for One-Touch Speed Calling keys.

ALPHABETIC CHARACTER

DIGIT KEY	1	2	3	4	5	6	7	8	9	0	*	#
CHARACTER	1	A	D	G	J	M	P	T	W	0	*	#
		B	E	H	K	N	Q	U	X		@	&
		C	F	I	L	O	R	V	Y		.	(
		a	d	g	j	m	S	t	Z		,	)
		b	e	h	k	n	p	u	w		’	[
		c	f	i	l	o	q	v	x		:	]
		2	3	4	5	6	r	8	y		;	!
							s		z		-	?
							7		9		/	

TO ORIGINATE A CALL USING SPEED CALLING - STATION/GROUP

Note: When Redial feature is enabled at installation, Last Number Redial feature and Speed Calling features using (**Redial**) key are not available. For details, contact the system administrator.

STEP 1: Press (**Redial**) key.

STEP 2: Press the desired speed calling number.

TO ORIGINATE A CALL USING SPEED CALLING - SYSTEM

To Program Speed Calling – System Key (On One-Touch Speed Calling Key)

STEP 1: Press the **Feature** key.

STEP 2: Press the desired **One-Touch Speed Calling** key. The LCD displays previously stored digits.

STEP 3: Dial the "Speed Calling – System" access code and the abbreviated call code.

STEP 4: Press the **Feature** key again.

To Operate From Speed Calling – System Key

STEP 1: Press the "Speed Calling – System" key.

STEP 2: If the terminal does not have the "Speed Calling – System" key, dial the "Speed Calling – System" access code, then the abbreviated call code.

ONE-TOUCH SPEED CALLING SETTING USING SPDSET KEY

You can add, edit, or delete a **One-Touch Speed Calling** key using a programmable Line/Feature key or a **SPDSET** key. When using a **SPDSET** soft key, **One-Touch Speed Calling** can be set when the terminal in an off-hook state (idle), otherwise, it is invalid.

Note: A **SPDSET** key is configured at the installation phase.

To Add the One-Touch Speed Calling Key with SPDSET Key as New Data

STEP 1: Press the **SPDSET** key.

STEP 2: Press the desired **One-Touch Speed Calling** key.

STEP 3: Enter the desired phone number (up to 32 digits can be registered).

STEP 4: Press the **Regist** key. The following message appears for 3 seconds.

Note: During the registration operation, pressing any other key (**Exit**, **SPDSET**, or **Cancel**) cancels the setting. In that case, the terminal operates in accordance with the pressed key.

Note: When you receive an incoming call on the accommodated line while programming the **One-Touch Speed Calling** key, you can continue with the programming without answering the call. However, if you answer the call, the conversation will be started and the registration operation will be canceled.

Note: A new entry overwrites the previously saved phone number (the existing number temporarily displays when you try to set a new number).

To Replace the Existing Data Assigned to a the One-Touch Speed Calling Key with New Data Using SPDSET Key

STEP 1: Press the **SPDSET** key.

STEP 2: Press the desired **One-Touch Speed Calling** key.

STEP 3: The phone number already registered is displayed. Press key or the **Edit** soft key.

STEP 4: Enter the desired phone number (Up to 32 digits can be registered).

STEP 5: Press the **Regist** key. The following message appears for 3 seconds.

Note: During the registration operation, pressing any other key (**Exit**, **SPDSET**, or **Cancel**) cancels the setting. In that case, the terminal operates in accordance with the pressed key.

Note: When you receive an incoming call on the accommodated line while programming the **One-Touch Speed Calling** key, you can continue with the programming without answering the call. However, if you answer the call, the conversation will be started and the registration operation will be canceled.

Note: A new entry overwrites the previously saved phone number (the existing number temporarily displays when you try to set a new number).

TO EDIT THE REGISTERED DATA

To Enter the Phone Number

STEP 1: Locate the cursor (underscore) with the **LEFT/RIGHT** soft key (these soft keys are displayed pressing the "**>>>**" soft key), or pressing / .

STEP 2: Enter the desired phone number.

Note: If the entered number exceeds 24 digits, the digits following the 24th digit are displayed on the upper row of the LCD. A phone number can be entered up to 32 digits.

To Enter Hooking

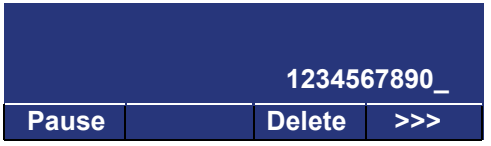
STEP 1: Press the **Hook** soft key (this soft keys is displayed pressing the "**>>>**" soft key twice).

STEP 2: Hooking is indicated as "!" on the LCD.

Note: The **Hook** soft key can be put only at the beginning of a number, and so "Hooking" displays only before entering any number.

To Enter Pause

STEP 1: Press the **Pause** soft key (this soft key is displayed pressing the "**>>>**" soft key twice).



STEP 2: Pause is indicated as "-" on the LCD.

Note: Up to three consecutive entries of the "Pause" are allowed.

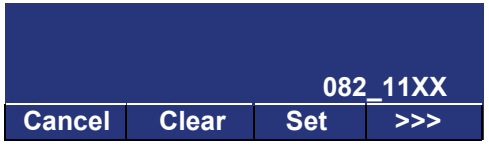
To Enter Voice Call

STEP 1: Press the **VOICE** soft key (this soft key is displayed pressing the "**>>>**" soft key twice).

STEP 2: Pause is indicated as "V" on the LCD.

To Delete the Entered Character

STEP 1: Place the cursor (underscore) in front of the desired character (in this example, “2” is deleted) with the **LEFT/RIGHT** soft key (these soft keys are displayed pressing the “**>>>**” soft key), or pressing / .

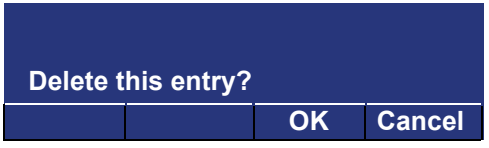


STEP 2: Press the **Clear** soft key.

To Delete the Phone Number Data

STEP 1: Press the **DEL** soft key (this soft key is displayed pressing the “**>>>**” soft key twice).

STEP 2: Press the **OK** soft key.



STEP 3: The following message appears for 3 seconds.

Note: When this process ends in failure, “Delete Failed!” is displayed for 3 seconds on the LCD.

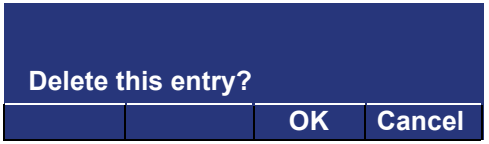
To Delete the Number of One-Touch Speed Calling Keys Using SPDSET Key

STEP 1: Press the **SPDSET** key.

STEP 2: Press the desired **One-Touch Speed Calling** key.

STEP 3: The phone number already registered is displayed. Press the **DEL** soft key.

STEP 4: Press the **OK** soft key.



STEP 5: The following message appears for 3 seconds.

Note: When this process ends in failure, "Delete Failed!" is displayed for 3 seconds on the LCD.

To Switch the Registering One-Touch Speed Calling Keys Using SPDSET Key

STEP 1: Press the **SPDSET** key.

STEP 2: Press the desired **One-Touch Speed Calling** key.

STEP 3: The phone number already registered is displayed.

STEP 4: Press another **One-Touch Speed Calling** key to switch the key data.

ACCOUNT CODE

To Enter

STEP 1: Lift the handset or press the **Speaker** key, receive a dial tone.

STEP 2: Enter the feature access code, receive a service set tone.

STEP 3: Enter the “Account Code” (up to 10 digits).

STEP 4: Receive a dial tone and dial the desired number.

Note: For North America, Account Codes can be up to 24 digits.

To Enter Account Code After Authorization Code

STEP 1: Lift the handset or press the **Speaker** key, receive a dial tone.

STEP 2: Enter the feature access code for “Authorization Code”, receive a service set tone.

STEP 3: Enter the “Authorization Code”, receive a second service set tone.

STEP 4: Enter the “Account Code”, receive a dial tone, and dial the desired number.

Note: Authorization and Account Codes may be up to 20 digits combined (or 34 digits combined).

FORCED ACCOUNT CODE

STEP 1: Lift the handset or press the **Speaker** key, receive a dial tone.

STEP 2: Enter the feature access code, receive a service set tone.

STEP 3: Enter the “Forced Account Code” (up to 10 digits), receive a dial tone.

Note: For North America, Account Codes can be up to 24 digits. The total number of digits which can be entered for Authorization and Account Codes is 34 digits.

AUTHORIZATION CODE

To Enter Without Account Code

STEP 1: Lift the handset or press the **Speaker** key, receive a dial tone.

STEP 2: Enter the feature access code, receive a service set tone.

STEP 3: Enter the “Authorization Code” (up to 10 digits).

STEP 4: Receive a dial tone, dial the desired number.

- OR -

STEP 4: Lift the handset, receive a dial tone.

STEP 5: Dial the desired number.

STEP 6: If an “Authorization Code” is required, caller hears special dial tone.

STEP 7: Enter the “Authorization Code”, or call will be denied.

Note: This option is available only if system is programmed with Least Cost Routing.

To Enter With Account Code (see above)

A service set tone is optional depending upon system programming.

VOICE CALL

STEP 1: Lift the handset.

STEP 2: Dial the desired station number.

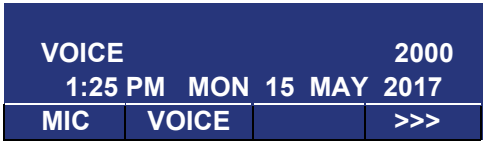
STEP 3: Press the **Voice** key.

STEP 4: Speak to called party.

Using Soft Key

STEP 1: Lift the handset.

STEP 2: Dial the desired station number; the **VOICE** soft key appears while the station is ringing.



STEP 3: Press the **VOICE** soft key and speak to called party.

Note: A Voice Call may be programmed on a **One-Touch Speed Calling** key by pressing the **One-Touch Speed Calling** key, dialing the extension, and pressing the **Transfer** key. (The **VOICE** key will display on the LCD if it is programmed and saved on the terminal.)

Note: If a called party is on their line when a Voice Call is attempted, calling station's display indicates as follows:

Note: A voice call is restricted if called party's station is not a terminal. Display indicates as follows:

TO ANSWER A VOICE CALL Hands-Free

STEP 1: Receive an incoming Voice Call.

STEP 2: Press the **MIC** soft key or the **Mic** key. LED lights.

STEP 3: Respond the call with hands-free.

Calling station

Note: If privacy is required, lift the handset.

AUTOMATIC INTERCOM

To Initiate

STEP 1: Lift the handset or press the **Speaker** key.

STEP 2: Press the **AICM** key.

STEP 3: Hear a ringback tone.

Called party

To Answer

STEP 1: The **AICM** key flashes red indicating an incoming intercom call.

Overriding party

STEP 2: Press the **AICM** key, lift the handset or press the **Speaker** key. LED lights solid green.

Note: When the called station is engaged with a non-intercom call, the called station user presses the **AICM** key to answer the incoming call after placing the non-intercom caller on hold (with the **Hold** key).

To Bridge Into An Automatic Intercom Call

Note: Bridging is an optional feature.

STEP 1: Press the **AICM** key, lift the handset or press the **Speaker** key.

Overriding party

STEP 2: A three-party conference is established.

MANUAL INTERCOM

To Initiate

STEP 1: Press the **MICM** key, lift the handset or press the **Speaker** key, a ringback tone is heard.

STEP 2: Press the **Signal** key if it is desired for the called station to hear ringing.

Called party

To Answer

STEP 1: The **MICM** key flashes, indicating an incoming call. A ring tone may also be heard.

Calling party

STEP 2: Press the **MICM** key.

STEP 3: Lift the handset or press the **Speaker** key, LED lights solid green.

Note: When the called station is engaged with a non-intercom call, the called station user presses the **MICM** key to answer the incoming call after placing the non-intercom caller on hold (with the **Hold** key).

To Bridge Into A Manual Intercom Call

Note: Bridging is an optional feature.

STEP 1: Press the **MICM** key, lift the handset or press the **Speaker** key.

Overriding party

STEP 2: A three-party conference is established.

Note: The **Signal** key signals the corresponding station when speaking over the intercom path is unnecessary.

Note: Two-button Manual Intercom provides one button for signaling and one for talking. A separate signaling button can be used in many ways for the secretary to alert a boss, or vice versa.

DIAL INTERCOM

To Initiate

STEP 1: Lift the handset or press the **Speaker** key.

STEP 2: Press the **DICM** key.

STEP 3: Dial the desired intercom station number. Receive a ringback tone.

Called party

To Answer

STEP 1: The **DICM** key flashes, indicating an incoming intercom call.

STEP 2: Press the **DICM** key.

STEP 3: Lift the handset or press the **Speaker** key. LED lights solid green.

Calling party

Note: When the called station is engaged with a non-intercom call, the called station user presses the **DICM** key to answer the incoming call after placing the non-intercom caller on hold (with the **Hold** key).

To Bridge Into A Dial Intercom Call

Note: Bridging is an optional feature.

STEP 1: Press the **DICM** key, lift the handset or press the **Speaker** key.

Overriding party

STEP 2: A three-party conference is established.

Note: Dial intercom provides a Dial Intercom group where each member of the group may be called by a 1-digit or 2-digit number without using their prime lines.

CONFERENCE

STEP 1: With a call in progress, press the **Transfer** key and dial the desired number.

STEP 2: After the call is answered, press the **CONF** soft key.
Three-way conference is established.

STEP 3: If one party hang up, other two remain connected.

TO SWITCH A CALL WITH TRANSFER KEY

STEP 1: While engaged in a call and wishing to consult a third party, press the **Transfer** key. The original caller is automatically placed on hold.

STEP 2: Dial the desired party to consult.

STEP 3: Press the **Transfer** key to return to the original caller. The third party is automatically placed on hold.

STEP 4: By repeating these steps, it is possible to alternate between calls. The display indicates the connected station or trunk at any given time.

TO ANSWER A CAMPED-ON CALL

STEP 1: While engaged in a call, receive the camp-on indication (one short tone burst). LED of an **Answer** key flashes.

STEP 2: Press the **Answer** key. The call in progress is placed on hold.

STEP 3: The connection to camped-on call is established.

STEP 4: Press the **Answer** key to return to the original call. The camped-on call is placed on hold.

STEP 5: By repeating these steps, it is possible to alternate between calls. The display indicates the connected station or trunk at any given time.

CALL WAITING - ORIGINATING

To Program Call Waiting Key (On One-Touch Speed Calling Key)

STEP 1: Press the **Feature** key.

STEP 2: Press the desired **One-Touch Speed Calling** key.

STEP 3: Press the **Recall** key, "!" appears on the LCD.

STEP 4: Dial "Call Waiting" feature access code.

STEP 5: Press the **Feature** key.

Note: To program a hook switch for transfer or feature activation, press a **Recall** key as first digit. "**!**" displays on LCD.

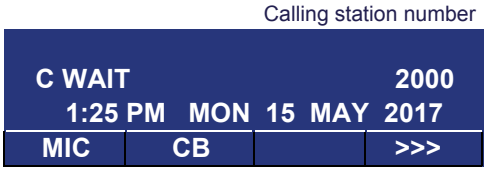
To Activate Call Waiting – Originating

STEP 1: Dial the desired station number, receive busy tone.

STEP 2: Press the **CALL WAITING** key.

STEP 3: Receive a special ringback tone.

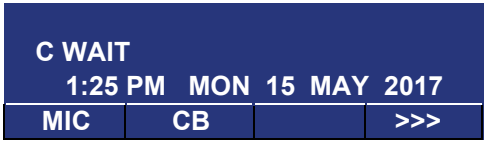
STEP 4: The call waiting tone is sent to the busy station.



– OR –

STEP 4: Lift the handset or press the **Speaker** key.

STEP 5: Dial “Call Waiting” access code, receive a dial tone.

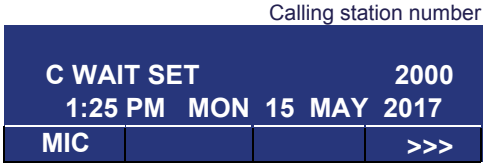


STEP 6: Dial the busy station.

Using Soft Key

STEP 1: Dial the desired station and receive a busy tone.

STEP 2: Press the **CW** soft key receive a call waiting ringback tone.



To Answer A Waiting Call

STEP 1: A Call Waiting Tone is heard. The display indicates “**C WAIT**” and the **Answer** key flashes.

STEP 2: Press the **Answer** key.

STEP 3: The waiting call is automatically connected. The original party is placed on hold.

STEP 4: By repeatedly pressing the **Answer** key, it is possible to alternate between calls. The display indicates the connected station or trunk at any given time.

To Disconnect

STEP 1: Press the **Recall** key. The station user is automatically connected to the original party.

CALL PARK

To Program Call Park Key (On One-Touch Speed Calling Key)

STEP 1: Press the **Feature** key.

STEP 2: Press the **One-Touch Speed Calling** key.

STEP 3: Press the **Recall** key. "**!**" displays on LCD.

STEP 4: Dial "Call Park" access code.

STEP 5: Press the **Feature** key again.

To Park A Call

STEP 1: While connected to a station or trunk, press the **CALL PARK** key.

Parked station or trunk

To Retrieve A Parked Call From Originating Station

STEP 1: Dial "Call Park" local retrieval code.

STEP 2: The station user is connected to the parked call.

Elapsed time

To Retrieve A Parked Call From A Remote Station

STEP 1: Dial "Call Park" local retrieval code.

STEP 2: The station user is connected to the parked call.

Station that parked the call

CALL PICK-UP (GROUP)

When Station Within Pick-up Group Rings

STEP 1: Lift the handset.

STEP 2: Press the **CALL PICK-UP** key or dial "Call Pick-up" access code (may be stored on a **One-Touch Speed Calling** key).

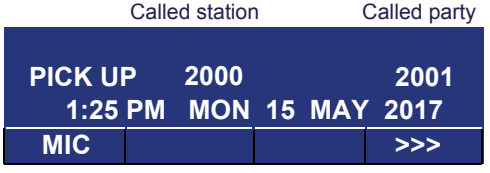
STEP 3: The connection to calling party is established.

STEP 4: If currently on a call, press the **Transfer** key and dial "Call Pick-up" access code.
The original party is placed on hold.

Using Soft Key

STEP 1: Lift the handset and press the **PICK** soft key.

STEP 2: The connection to calling party is established.



CALL PICK-UP (DIRECT)

To Program Pick- up Direct Key (One-Touch Speed Calling Key)

STEP 1: Press the **Feature** key.

STEP 2: Press the **One-Touch Speed Calling** key.

STEP 3: Dial "Direct Call Pick-up" access code.

STEP 4: Press the **Feature** key again.

When A Station Within System Rings

STEP 1: Lift the handset, receive a dial tone.

STEP 2: Press the **PICK-DIRECT** key and dial the station number to be picked up.

– OR –

STEP 2: Dial "Direct Call Pick-up" access code and the station number to be picked up.

STEP 3: The connection to calling party is established.

STEP 4: If busy, the original call must be placed on hold before a new call can be picked up.

OUTGOING TRUNK QUEUING

If Trunk Is Busy

STEP 1: Receive a Trunk Busy indication. Press the **CALL BACK** key. The call is placed in the queue for a next available trunk.

STEP 2: When the trunk is available, the setting station is alerted by ringing and flashing red LED.

STEP 3: Press the **Speaker** key or lift the handset. A dial tone is heard or the number is automatically dialed if Least Cost Routing is provided.

OFF-HOOK TRUNK QUEUING

STEP 1: Press the **Speaker** key, receive a dial tone.

STEP 2: Dial the desired telephone number. Encounter a trunk busy condition.

STEP 3: A station user receives a service set tone and leaves speaker on.

STEP 4: The desired number is automatically dialed when a trunk becomes available.

EXECUTIVE OVERRIDE

If Called Station Is Busy

STEP 1: Press the **OVERRIDE** key.

STEP 2: Interrupted parties receive a warning tone.

Overridden station

STEP 3: The three-way conference is initiated.

Using Soft Key

STEP 1: Press the **E-OVR** soft key.

STEP 2: Interrupted parties receive a warning tone and a three-way conference is initiated.

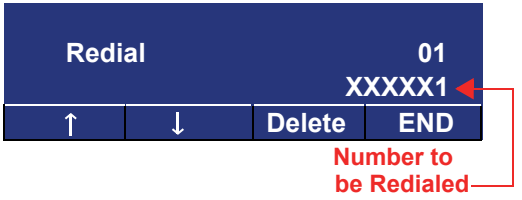
Note: Override may be programmed by the Telephony Server administrator for one of the Programmable feature keys, or may be programmed on a **One-Touch Speed Calling** key by storing the Recall and Override access code.

REDIAL

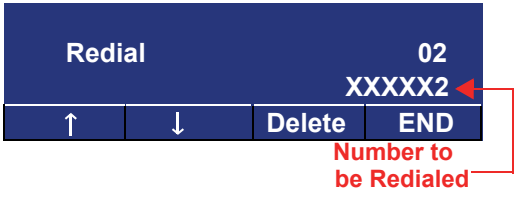
Note: When Redial feature is enabled at installation, Last Number Redial feature and Speed Calling features using (**Redial**) key are not available. For details, contact the system administrator.

To Redial the Last Number Dialed

STEP 1: Press (**Redial**) key. A last number dialed is displayed.



STEP 2: Press or **UP/DOWN** soft key until the desired number is displayed. Up to 20 previously dialed numbers are available.

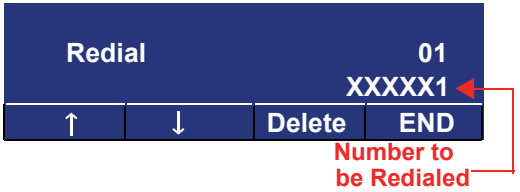


STEP 3: Go off-hook or press the **Speaker** key, or the **OK** soft key to make a call to the displayed party.

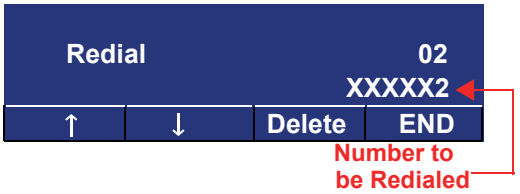
STEP 4: When the party has answered, lift the handset or speak hands-free.

To Delete the One Call History Data of Outgoing Call

STEP 1: Press (**Redial**) key. A last number dialed is displayed.



STEP 2: Press or **UP/DOWN** soft key until the desired number is displayed.

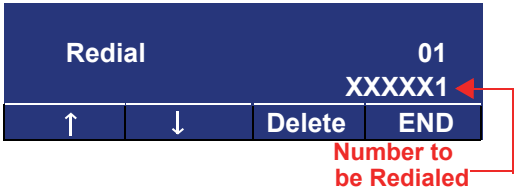


STEP 3: Press the **DEL** soft key.

STEP 4: Press the **One** soft key.

To Delete the All Call History Data of Outgoing Call

STEP 1: Press (**Redial**) key. A last number dialed is displayed.



STEP 2: Press the **DEL** soft key.

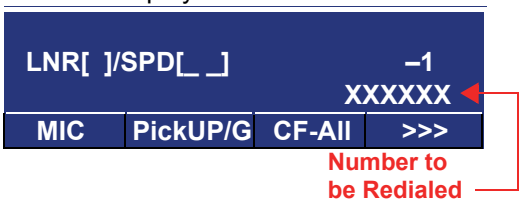
STEP 3: Press the **All** soft key.

LAST NUMBER REDIAL

Note: When Redial feature is enabled at installation, Last Number Redial feature and Speed Calling features using (**Redial**) key are not available. For details, contact the system administrator.

To Recall Last Number Dialed

STEP 1: Press (**Redial**) key. The last number dialed is displayed.



STEP 2: Press (**Redial**) key until the desired number is displayed. Up to 5 previously dialed numbers.

STEP 3: Press ✳ (**Note 1**, **Note 2**) key. The number on the display is automatically redialed.

STEP 4: When the party has answered, lift the handset or speak hands-free.

Note1: A-law Countries [Europe, Australia, Russia, Latin America, Middle Near East, other Asian nations]: #

μ-law Countries [North America]: ✳

Note2: The key to redial (#, ✳) can be changed by the system setting. For details, contact the system administrator.

CALL FORWARDING - ALL CALLS

To Set

STEP 1: Press the **Speaker** key. Receive a dial tone.

STEP 2: If the setting for another station, press the **MULTILINE** feature key.

STEP 3: Press the **CF-All** key or dial “Call Forwarding – All Calls” access code. Receive a special dial tone.

STEP 4: Dial the destination station or the external telephone number. Receive a service set tone.

STEP 5: The **CF-All** key’s LED lights (at your station or at the terminal of the multiline station you are setting).

STEP 6: Press the **Speaker** key. Call Forwarding – All Calls is set.

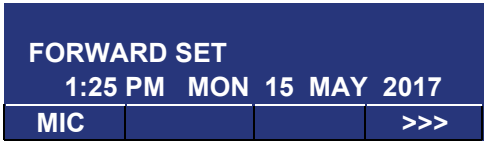
Forwarding station

Using Soft Key

STEP 1: Press the **FDA** soft key. Receive a special tone.

STEP 2: Dial the destination; wait for a service set tone.

STEP 3: "**FORWARD SET**" is displayed on the LCD, call forwarding for all calls is set.



To Verify (Only For Terminal With LCD)

STEP 1: Press the **CF-All** key.

STEP 2: The display indicates the station number calls are forwarded to.

Note: With soft key operation, the **FDA** soft key lights on the display.

To Cancel

STEP 1: Press the **Speaker** key. Receive a dial tone. If canceling for another station, press the **MULTILINE** feature key.

STEP 2: Press the **CF-All** key or dial "Call Forwarding – All Calls" cancel code. Receive a service set tone. LED goes out at your station (or the multiline station).

STEP 3: Press the **Speaker** key. Call Forwarding – All Calls is cancelled.

Using Soft Key

STEP 1: Press the **FDA** soft key.

STEP 2: Receive a service set tone and "**FORWARD CANCEL**" is displayed.

CALL FORWARDING - BUSY LINE

To Set

STEP 1: Press the **Speaker** key. Receive a dial tone.

STEP 2: If setting for another station, press the **MULTILINE** feature key.

STEP 3: Press the **CF-Busy** key or dial "Call Forwarding – Busy Line" access code. Receive a special dial tone.

STEP 4: Dial the destination station or the external telephone number. Receive a service set tone.

STEP 5: The **CF-Busy** key's LED lights (at your station or at the terminal of the multiline station you are setting).

STEP 6: Press the **Speaker** key. Call Forwarding – Busy Line is set.

Using Soft Key

STEP 1: Press the **FDB** soft key. Receive a special dial tone.

STEP 2: Dial the destination; wait for a service set tone.

STEP 3: "**FORWARD SET**" is displayed; Call Forwarding – Busy Line is set.

To Verify (Only For Terminal With LCD)

STEP 1: Press the **CF-Busy** key.

STEP 2: The display indicates the station number calls are forwarded to.

Note: With soft key operation, the **FDB** key flashes on the display.

To Cancel

STEP 1: Press the **Speaker** key. Receive a dial tone. If canceling for another station, press the **MULTILINE** feature key.

STEP 2: Press the **CF-Busy** key or dial "Call Forwarding – Busy Line" cancel code. Receive a service set tone. LED goes out at your station (or the multiline station).

STEP 3: Press the **Speaker** key. Call Forwarding – Busy Line is cancelled.

Using Soft Key

STEP 1: Press the **FDB** soft key.

STEP 2: Receive a service set tone and "**FORWARD CANCEL**" is displayed.

CALL FORWARDING - DON'T ANSWER

To Set

STEP 1: Press the **Speaker** key. Receive a dial tone.

STEP 2: If setting for another station, press the **MULTILINE** feature key.

STEP 3: Press the **CF-NoAns** key or dial "Call Forwarding – Don't Answer" access code. Receive a special dial tone.

STEP 4: Dial the destination station or the external telephone number. Receive a service set tone.

STEP 5: The **CF-NoAns** key's LED lights (at your station or at the terminal of the multiline station you are setting).

STEP 6: Press the **Speaker** key. Call Forwarding – Don't Answer is set.

Using Soft Key

STEP 1: Press the **FDN** soft key. Receive a special dial tone.

STEP 2: Dial the destination; wait for a service set tone.

STEP 3: "**FORWARD SET**" is displayed; Call Forwarding – Don't Answer is set.

To Verify (Only For Terminal With LCD)

STEP 1: If verifying for another station, press the **MULTILINE** feature key while an idle.

STEP 2: Press the **CF-NoAns** key.

STEP 3: The display indicates the station number calls are forwarded to.

Note: Call Forwarding for Busy Line and Don't Answer may be combined depending upon system programming.

Note: With soft key operation, the **FDN** key flashes on the display.

To Cancel

STEP 1: Press the **Speaker** key. Receive a dial tone. If canceling for another station, press the **MULTILINE** feature key.

STEP 2: Press the **CF-NoAns** key or dial "Call Forwarding - Don't Answer" cancel code. Receive a service set tone. LED goes out at your station (or the multiline station).

STEP 3: Press the **Speaker** key. Call Forwarding – Don't Answer is cancelled.

LOGGED OUT IP STATION - CALL DESTINATION

To Set

STEP 1: Lift the handset or press the **Speaker** key.

STEP 2: Press the **CFLogout** key or dial "Logged Out IP Station – Call Destination" access code.

STEP 3: Dial the destination station number; receive a service set tone.

STEP 4: Replace the handset or press the **Speaker** key. Logged Out IP Station – Call Destination is set.

Using Soft Key

STEP 1: Press the **FDL** soft key; receive a special Dial Tone.

STEP 2: Dial the destination station number.

STEP 3: Receive a service set tone; "**FORWARD SET**" is displayed.

To Verify (Only For Terminal with LCD)

STEP 1: Press "Logged Out IP Station – Call Destination" feature key lit red or press the **FDL** soft key.

STEP 2: The display indicates the station number calls are forwarded.

Note: With soft key Operation, the **FDL** key flashes on the display.

To Cancel

STEP 1: Lift the handset or press the **Speaker** key; receive a dial tone.

STEP 2: Press the **CFLogout** key or dial “Logged Out IP Station – Call Destination” cancel code; receive service set tone.

STEP 3: Replace the handset or press the **Speaker** key. Logged Out IP Station – Call Destination is canceled.

Using Soft Key

STEP 1: Lift the handset or press the **Speaker** key; receive a dial tone.

STEP 2: Press the **FDL** soft key; receive a service set tone.

STEP 3: Dial the destination station number; receive a service set tone.

STEP 4: “Logged Out IP Station – Call Destination” lamp goes off and FDL indication disappears on the LCD.

CALL BACK

If Called Station is Busy

STEP 1: Press the **CALL BACK** key. Receive a service set tone.

Called party

– OR –

STEP 1: Press the **FLASH** key and enter “Call Back” access code.

STEP 2: When the both parties become an idle state, the calling party's phone rings. The calling party would go off-hook and hear a ring back tone.
The called station would then be ringing.

Called party

STEP 3: The connection is established when the called party answers.

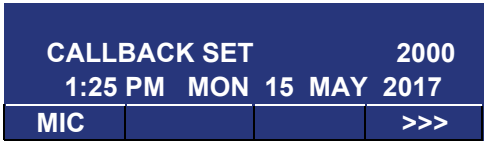
Called party

Note: Call Back may be programmed by the Telephony Server administrator on a Programmable feature key or by the user on a **One-Touch Speed Calling** key.

Using Soft Key

STEP 1: Press the **CB** soft key and receive a service set tone.

STEP 2: "**CALLBACK SET**" is displayed and the **CB** soft key flashes on the display.



TO SAVE AND REPEAT A NUMBER

To Save

STEP 1: Press the **Speaker** key.

STEP 2: Dial the desired telephone number.

STEP 3: Press the **Save&Rep** key. Dialed the number is now stored. The **Save&Rep** key's LED lights.

– OR –

STEP 3: Receive an internal call.

STEP 4: Press the **Save&Rep** key. The number is stored in memory.

STEP 5: The **Save&Rep** key's LED lights.

Using Soft Key

STEP 1: Press the **S&R** key. The number is stored in memory.

STEP 2: The **S&R** key's LED lights.

To Verify (Only For Terminal With LCD)

STEP 1: While an idle state, press the **Save&Rep** key.

STEP 2: The display indicates the digits sorted.

To Repeat

STEP 1: Press the **Speaker** key.

STEP 2: Press the **Save&Rep** key. The terminal automatically redials the programmed number.

STEP 3: The **Save&Rep** automatically cancelled. LED goes out.

Note: If the saved number is busy or no answer is received, to save it again, press the **Save&Rep** key again before hanging up.

Using Soft Key

STEP 1: Press the flashing **S&R** soft key.
Stored number is automatically redialed. "**S&R**" disappears from display.

TO LEAVE A MESSAGE

STEP 1: Press the **Speaker** key. Receive a dial tone.

STEP 2: Dial the desired station number. Encounter no answer or busy condition.

STEP 3: Press the **MSG** key. The message is sent to the called terminal.

STEP 4: The called station **MSG** LED lights.

Called station

Note: Up to four messages can be stored in DT820C Series memory. If a fifth message is attempted, a reorder tone is heard and the display indicates as follows:

Note: If a station is not equipped to receive messages, a reorder tone is heard and the display indicates as follows:

TO ANSWER A MESSAGE

To Display

STEP 1: The **MSG** key's LED is lit. The station is an idle state.

STEP 2: Press the **MSG** key.

STEP 3: Press the **MSG** key again to display additional messages in order received.

Calling station

To Respond

STEP 1: While displaying the desired message, press the **Speaker** key.

STEP 2: Press the **MSG** key. The station which left message is automatically redialed.

STEP 3: The message is erased.

To Erase

STEP 1: To erase a message without returning the call, press the **MSG** key to display the desired message.

STEP 2: Dial # or ✳ while the message displays. The message is erased.

Note: If the station that left message is busy, callback or the **MSG** may be set. If the station that left message does not answer, the **MSG** may be set, notifying originating party that a message return was attempted.

VOICE MAIL SYSTEM

To Set

STEP 1: Press the **Feature** key.

STEP 2: Press (**Enter**) key.

STEP 3: Dial the desired “Voice Mail System” access code.

STEP 4: Press the **Feature** key again.

To Originate

STEP 1: Press (**Enter**) key. The Shortcut menu screen is displayed on the LCD.

STEP 2: Select 2 **Voice Mail** and then press (**Enter**), (**Right-cursor**) or the **OK** soft key to access a preset Voice Mail System.

STEP 3: Hear a ringback tone.

MEET-ME PAGING

Example:
Station A can page Station B. When Station B dials answer code, they are connected.

To Page (Station A)

STEP 1: Dial “Paging” access code, receive a continuous ringback for one second.

STEP 2: Page station B.

STEP 3: Remain off-hook or hang-up.

Trunk number

To Answer (Station B)

If Station A remains off-hook

STEP 1: Station B dials “Paging” answer code, and they are immediately connected.

If Station A hangs up

STEP 1: Station B dial “Paging” answer code, and the dial tone of Station A rings.

STEP 2: When Station A goes off-hook, they are connected.

PAGING TRANSFER

Example:
Station A receives an important call for Station B who is not at a desk. Station A can page Station B. When Station B dials the Paging answer code, Station A can announce the call and transfer it to Station B.

Calling trunk number

Station A Paging

STEP 1: Ask calling party to hold.

STEP 2: Press the **Transfer** key. Receive an interrupted dial tone.

STEP 3: Dial “Paging” access code. Receive a continuous ringback for one second.

STEP 4: Page Station B.

STEP 5: Remain off-hook or hang-up.

To Answer (Station B)

If Station A remained off hook

STEP 1: Station B dials “Paging” answer code, and is connected with Station A. Station A announces call.

Stations A and B each display the other’s number

STEP 2: Station A hangs up. Station B and the calling party are connected.

If Station A hung up

STEP 1: Station B dials “Paging” answer code. The dial tone of Station A rings.

Stations A and B each display the other’s number, flashing

STEP 2: Station A picks up and announces call.

STEP 3: Station A hangs up. Station B and the calling party are connected.

Calling trunk number

– OR –

(Dependent on System Programming)

STEP 3: Station B dials “Paging” answer code, and is immediately connected to the calling party.

BOSS/SECRETARY TRANSFER

Secretary

STEP 1: Lift the handset, press the boss' ringing line. Ask the calling party to hold.

Calling party

STEP 2: Press the boss' line again. "Voice Call" is automatically established.

Boss and secretary station each display the other's number

STEP 3: Announce the call to the boss.

If Boss Accepts Call

STEP 1: Secretary replaces the handset.

STEP 2: Secretary presses the boss' line to return to the calling party.

If Boss Refuses Call

STEP 1: Secretary presses the boss' line to return to the calling party.

BOSS/SECRETARY - MW LAMP CONTROL

To Set MW at Boss's Station

Pattern1:

STEP 1: Lift the handset or press the **Speaker** key.

STEP 2: Press the boss' ringing line. Ask the calling party to hold.

STEP 3: Press the **MSG Wait** line/feature key. No service set tone is heard.

Boss sees **MW** on the display and can call secretary to receive the message.

Pattern2:

STEP 1: After taking the message, press the **Recall** key and receive a dial tone.

STEP 2: Press the **MSG Wait** line/feature key. Receive a service set tone.

Note: The secretary can hang up after taking a message, and set a message lamp at any time by going off-hook on the boss' multiline and pressing the **MSG Wait** key.

To Cancel At Boss's Station

Pattern1:

STEP 1: Lift the handset or press the **Speaker** key. Receive a dial tone.

STEP 2: Press the Boss' line appearance.

STEP 3: Press the **no MSGwt** line/feature key. Receive a service set tone.

Pattern2:

STEP 1: While engaged in conversation on the boss' multiline, press the **no MSGwt** key. No service set tone is heard.

BOSS SECRETARY OVERRIDE

Example:
Station 2000 is boss, Station 2001 is secretary.
Boss is connected to Trunk A.
Incoming call on Trunk B connects to secretary, but is intended for boss.

To Program Boss/Secretary Override Key

STEP 1: Press the **Feature** key.

STEP 2: Press the **One-Touch Speed Calling** key.

STEP 3: Dial "Boss/Secretary Override" access code.

STEP 4: Press the **Recall** key – displays on the LCD.

STEP 5: Dial the boss' station number.

STEP 6: Press the **Feature** key again.

Secretary

STEP 1: Lift the handset to answer Trunk B, ask caller to hold.

STEP 2: Press the **CALL HOLD** feature key or **Transfer** key and dial call hold access code. Receive a Dial Tone.

STEP 3: Press the **BOSS/SEC OVERRIDE** key. Receive a ringback tone.

Boss's station number

Boss

STEP 1: Hear 3 bursts of tone. LCD indicates:

Secretary's station number

Option 1

STEP 1: Boss presses the **Answer** key and converses with secretary. Trunk A is placed on hold.

STEP 2: Secretary hangs up. Boss is connected to Trunk B.

STEP 3: Boss can alternate between the two parties by pressing the **Answer** key.

Option 2

STEP 1: Boss presses the **Answer** key and converses with secretary. Trunk A is placed on hold.

STEP 2: Boss presses the station 01 key and converses with Trunk B. Boss presses the **Answer** key to reconnect to Trunk A.

STEP 3: Secretary hears a reorder tone, hangs up.

STEP 4: Boss can alternate between the two parties by pressing the **Answer** key.

Option 3

STEP 1: If boss does not respond to 3 bursts of tone, secretary presses the **Recall** key.

STEP 2: Secretary is connected to Trunk B.

Option 4

STEP 1: Boss presses the **Answer** key and converses with Secretary. Trunk A is placed on hold.

STEP 2: Boss denies call, presses the **Transfer** key to return to Trunk A.

STEP 3: Secretary is returned to Trunk B.

DO NOT DISTURB

While an Idle State (On Hook)

STEP 1: Press the **NoDist** key. LED lights.

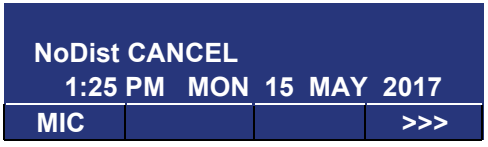
Note: With soft key operation, "**DND**" flashes when set.

To Cancel

STEP 1: Press the **NoDist** key. LED goes out.

Using Soft Key

STEP 1: Press the flashing **DND** soft key.



Note: The **NoDist** key must be programmed by the Telephony Server administrator on a Programmable feature key.

CALL REDIRECT

Example:

Station A views on the terminal display the Station Number or Caller ID of an Incoming Call and immediately redirects the call by pressing a Function Key. The destination of the Call Redirect will be the Call Forwarding-Don't Answer Destination or the Recall Destination if the call is transferred without Call Forwarding-Don't Answer being set at the station.

Note: This feature is available in North America only.

Call Redirect To Call Forward-Don't Answer Destination

STEP 1: Station A sets Call Forward-Don't Answer to Station B.

STEP 2: Station C dials Station A, it rings and displays Station C's number on the display.

STEP 3: Station A presses the Call Redirect Key.

STEP 4: REDIRECT is displayed on the LCD, and the call immediately forwards to Station B.

Using Soft Key

STEP 1: Station A sets Call Forward-Don't Answer to Station B.

STEP 2: Station C dials Station A, it rings and displays Station C's number on the display.

STEP 3: Station A presses the **REDIR** soft key.

STEP 4: REDIRECT is displayed on the LCD, and the call immediately forwards to Station B.

- OR -

Call Redirect to Recall Destination When Call Is Transferred Without Call Forwarding-Don't Answer Being Set

STEP 1: Station B calls Station C.

STEP 2: Station C answers the call and transfers it to Station A and then releases the call.

STEP 3: Station A rings.

STEP 4: Station A presses the Call Redirect key.

STEP 5: REDIRECTING is displayed on Station A and the call immediately recalls to Station C.

Using Soft Key

STEP 1: Station B calls Station C.

STEP 2: Station C answers the call and transfers it to Station A and then releases the call.

STEP 3: Station A rings.

STEP 4: Station A presses the **REDIR** soft key.

STEP 5: REDIRECTING is displayed on Station A and the call immediately recalls to Station C.

PRIVACY

While Off-Hook

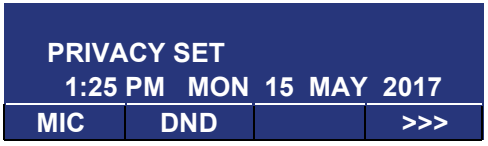
STEP 1: Press the **NoDist** key. LED lights.

STEP 2: Privacy feature prevents interruptions for the duration of the call.

Using Soft Key

STEP 1: Press the flashing **DND** soft key. “DND” flashes when set.

STEP 2: Privacy feature prevents interruptions for the duration of the call.



To Cancel

STEP 1: Press the **NoDist** key. LED goes out.

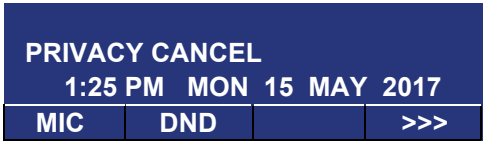
– OR –

STEP 1: Replace a handset. Privacy feature is automatically cancelled.

Note: The **NoDist** key must be programmed by the Telephony Server administrator on the Programmable feature key.

Using Soft Key

STEP 1: Press the flashing **DND** soft key.



PRIVACY RELEASE

Example:

Station B is engaged in a conversation, and allows Station A to enter the call in progress.

STEP 1: Station A lifts the handset or presses the **Speaker** key.
Station A presses the line appearance of Station B.
Warning tone is sent to the interrupted parties (optional).
A three-way conference is established.

Note: Station A may also be a single-line station as long as it appears on the Station B.

– OR –

Example:

Station A requests entrance into Station B's call in progress.

STEP 1: Station A lifts the handset or presses the **Speaker** key.

STEP 2: Station A presses the line appearance of Station B.

STEP 3: Station B LCD indicates as follows:

STEP 4: Station B may allow Station A to enter the conversation by pressing the **Priv.Rel** key.

STEP 5: A warning tone is sent to the interrupted parties (optional).

STEP 6: A three-way conference is established.

Note: Station A can be a single-line station if it appears on the Station B.

Note: Up to six parties can break into a two-party conversation (additional devise is required).

PHONEBOOK

For the DT820C Series, System Phonebook and Local Phonebook are supported.

Note: When the system administrator invalidates the Phonebook, this feature cannot be used. For details contact the system administrator.

System Phonebook
A System Phonebook is used on a system basis. Up to 12000/60000 entries are available per system. The data entry is made by the Telephony Server administrator.
Up to 32 digits can be registered for each dial number.
Up to 24 characters can be registered for each name.

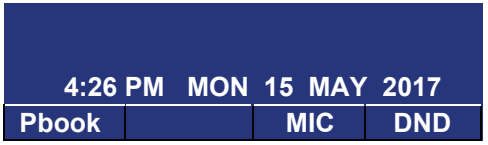
Local Phonebook
A Local Phonebook is used on a station basis. Up to 100 entries are available per a station. You can make entries with key operation from the telephone.
Up to 32 digits can be registered for each dial number.
Up to 24 characters can be registered for each name.

- **SYSTEM PHONEBOOK**

To Search And Make a Call

Example: To Search For “NEC BNET”.

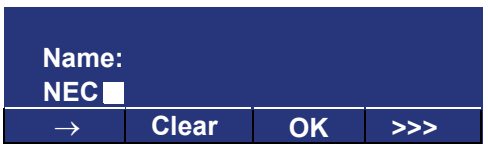
STEP 1: Press the **Pbook** soft key while the Station is in an idle state.



STEP 2: Press the **Sys** soft key.

STEP 3: Enter a name and then press or the **OK** soft key to perform a search.

Ex. To enter “NEC”:
Press 6 key twice to enter “N”.
Press 3 key four times to enter “E“.
Press 2 key twice to enter “C“.



Note: If "**>>>**" soft key is pressed on the above screen, the following soft keys appear. Pressing or the **Eu-s**/**Eu-l** soft key shifts characters between uppercase and lowercase.

(Lower-case character)

<<<	-Eu-s	Cancel

(Upper-case character)

<<<	-Eu-l	Cancel

Note: To delete an entered character, press or the **Clear** soft key.

Note: To move the cursor one space to the right, press key or the **RIGHT** soft key once.

STEP 4: A result of the search is displayed. Press or the **UP**/**DOWN** soft key to scroll the result.

Search: NEC Name: NEC ABIKO Number: XXXXXXXX1			
UP	DOWN	More	>>>

STEP 5: The registered Phonebook data for "NEC BNET" appears. From this screen, you can make a call by going off-hook or pressing the **Speaker** key.

Search: NEC Name: NEC BNET Number: XXXXXXXX			
UP	DOWN	More	>>>

Note: The **More** soft key appears in the Phonebook data screen when the number of characters (name) or digits (telephone number) are exceeding displayable limit (Up to 17 characters or digits can be displayed at a time). If the name or telephone number exceeds the displayable limit, press or the **More** soft key to display the last 17 characters/digits of the name/telephone number.
Example:
Name Suzuki Taro(JapanSumida) : 24 characters
Number: 01234567890123456789 : 20 digits

Search: NEC Name: Suzuki Taro(Japan Number: 01234567890123456			
More		Cancel	>>>

(Display area)
Name: Suzuki Taro(JapanSumida)
Number: 01234567890123456789

Search: NEC Name: Taro(JapanSumida) Number: 34567890123456789			
More		Cancel	>>>

(Display area)
Name: Suzuki Taro(JapanSumida)
Number: 01234567890123456789

- **LOCAL PHONEBOOK**

To Add New Data

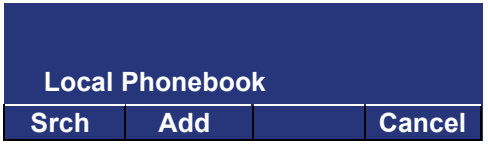
Example:
The DT820C Series Station A registers “NEC” as new name and its Telephone Number.

STEP 1: Press the **Pbook** soft key while the Station is in an idle state.

Note: Select an item on the menu screen in either of the following two ways.
- Press an appropriate digit key.
- Highlight a desired item and then press or the **OK** soft key.

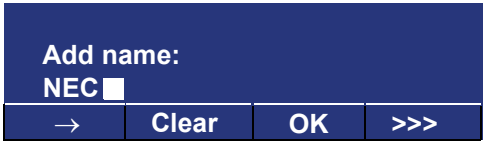
STEP 2: Press the **Local** soft key.

STEP 3: The Local Phonebook screen appears. Press the **Add** soft key.



STEP 4: Enter a name and then press or the **OK** soft key.

Ex. To enter “NEC”:
Press (6) key twice to enter “N”.
Press (3) key twice to enter “E“.
Press (2) key three times to enter “C“.



Note: If “**>>>**” soft key is pressed on the above screen, the following soft keys appear. Pressing or the **Eu-s**/**Eu-l** soft key shifts characters between uppercase and lowercase.

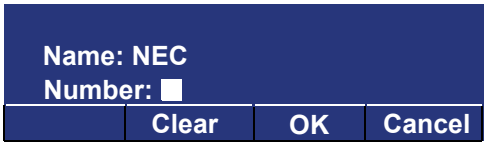
(Lower-case character)

(Upper-case character)

Note: To delete an entered character, press or the **Clear** soft key.

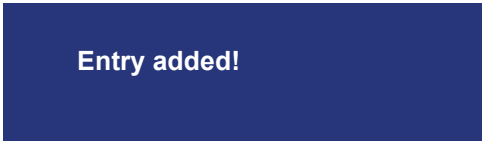
Note: To move the cursor one space to the right, press key or the **RIGHT** soft key once.

STEP 5: Enter the telephone number by using digit keys and press or the **OK** soft key.



Note: To delete an entered digit, press or the **Clear** soft key.

STEP 6: "NEC" and its telephone number has been added into the Local Phonebook. Two seconds later, the display returns to the Local Phonebook screen.

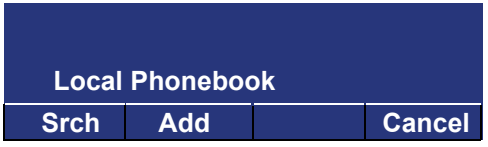


To Search For Name

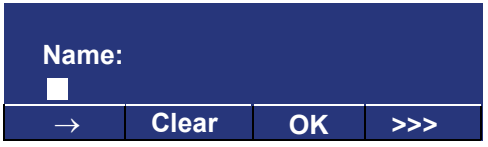
The procedure shown below is available in a Local Phonebook.

Example: To Find "NEC BNET".

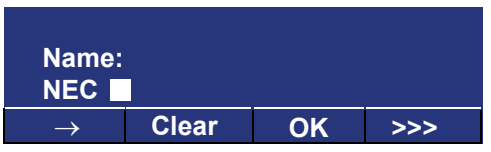
STEP 1: While the Local Phonebook screen is displayed, press the **Srch** soft key. (If no data is registered in the Local Phonebook, the message "Local phone book empty" appears.)



STEP 2: A Name Entry screen appears.



STEP 3: Enter a name (in this example, "NEC" is entered) and then press or the **OK** soft key. (If no appropriate data exists, the message "Entry not found!" appears.)



Note: If "**>>>**" soft key is pressed on the above screen, the following soft keys appear. Pressing or the **Eu-s**/**Eu-l** soft key shifts characters between uppercase and lowercase.

(Lower-case character)

<<<	-Eu-s	Cancel

(Upper-case character)

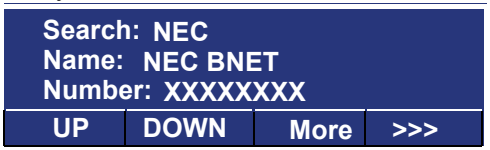
<<<	-Eu-l	Cancel

Note: To delete an entered character, press or the **Clear** soft key.

Note: To move the cursor one space to the right, press key or the **RIGHT** soft key once.

STEP 4: A result of the search is displayed. Press or the **UP**/**DOWN** soft key to scroll the result.

STEP 5: The registered data for "NEC BNET" appears. From this screen, you can make a call by going off-hook or pressing the **Speaker** key.



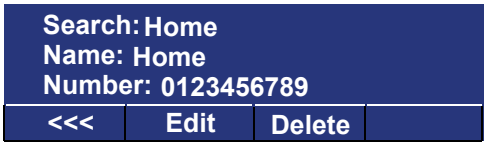
Note: The **More** soft key appears in the Phonebook data screen when the number of characters (name) or digits (telephone number) are exceeding displayable limit (Up to 17 characters or digits can be displayed at a time). If the name or telephone number exceeds the displayable limit, press or the **More** soft key to display the last 17 characters/digits of the name/telephone number.

To Edit An Entry

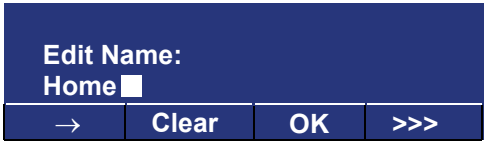
Example:
To Modify Name “Home” to “House” and Telephone Number “0123456789” to “0123456712”.

STEP 1: Press **>>>** soft key twice while the target Phonebook data is displayed.

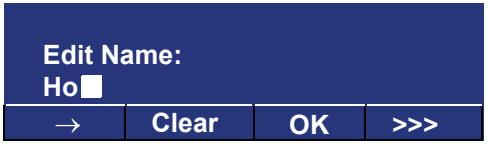
STEP 2: Press the **Edit** soft key.



STEP 3: The following name edit screen appears.

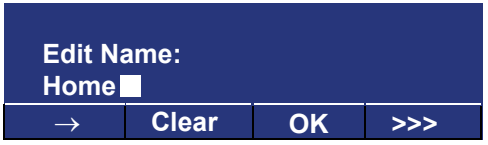


STEP 4: Press or the **Clear** soft key two times to erase “me”.



STEP 5: Enter “use” by using digit keys. After the modification has completed, press or the **OK** soft key.

Press (8) key twice to enter “u”.
Press (7) key four times to enter “s“.
Press (3) key twice to enter “e“.



Note: If “**>>>**” soft key is pressed on the above screen, the following soft keys appear. Pressing or the **Eu-s**/**Eu-l** soft key shifts characters between uppercase and lowercase.

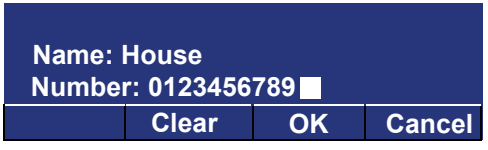
(Lower-case character)

(Upper-case character)

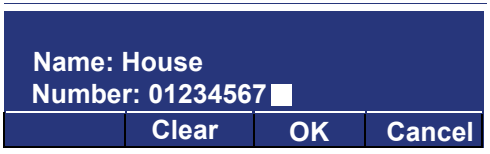
Note: To delete an entered character, press or the **Clear** soft key.

Note: To move the cursor one space to the right, press key or the **RIGHT** soft key once.

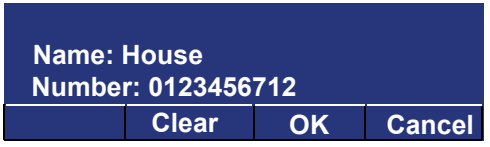
STEP 6: The following number edit screen appears.



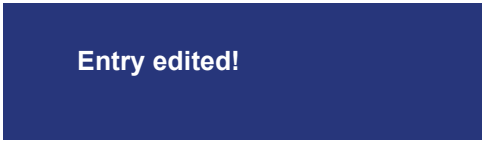
STEP 7: Press or the **Clear** soft key twice to erase "89".



STEP 8: Enter "12" by pressing digit keys and then press or the **OK** soft key.



STEP 9: After the data modification has completed, the following message appears for two seconds. The display returns to the Local Phonebook screen.

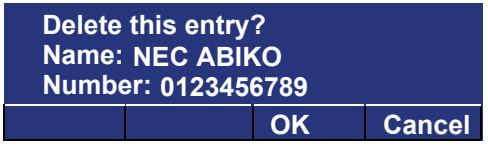


To Delete A Record

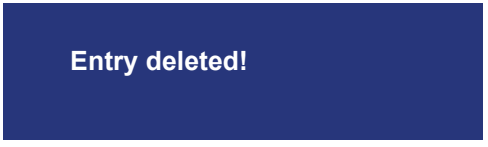
STEP 1: Press **>>>** soft key twice while the target Phonebook data is displayed.

STEP 2: Press the **Delete** soft key.

STEP 3: Press or the **OK** soft key to delete the currently displaying data.



STEP 4: After the data deletion has completed, the following message appears for two seconds. The display returns to the Name Entry screen.



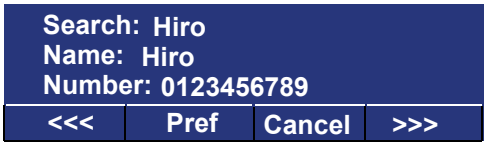
To Add A Prefix To Telephone Number

The procedure shown below is available in a Local Phonebook.

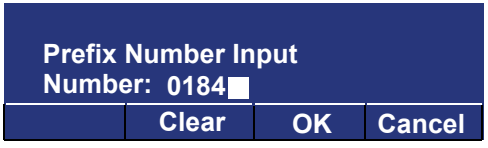
Example:
To add a prefix “0184” in front of the telephone number “0123456789”

STEP 1: Press **>>>** soft key while the target Phonebook data is displayed.

STEP 2: Press the **Pref** soft key.



STEP 3: Enter a prefix (In this example, “0184” is entered) by using digit keys and press or the **OK** soft key.



Note: To delete an entered digit, press or the **Clear** soft key.

STEP 4: The prefix is added in front of the telephone number. Once the prefix is added, the **Pref** soft key disappears.

Note: The **More** soft key appears in the Phonebook data screen when the number of characters (name) or digits (telephone number) are exceeding displayable limit (Up to 17 characters or digits can be displayed at a time). If the name or telephone number exceeds the displayable limit, press or the **More** soft key to display the last 17 characters/digits of the name/telephone number.

Available Characters In A Local Phonebook

The following tables show available characters in Local Phonebook.

UPPERCASE CHARACTER

Digit Code	1	2	3	4	5	6	7	8	9	0	*	#
Character	.	A	D	G	J	M	P	T	W	SP	*	#
	,	B	E	H	K	N	Q	U	X	0		
	:	C	F	I	L	O	R	V	Y			
	!	À	É	4	5	Ñ	S	Ü	Z			
	?	Á	Ê			Ö	ß	8	9			
	-	Â	3			6	7					
	+	Ã										
	%	Ä										
	&	Å										
	/	Æ										
	(	Ç										
	)	2										
	=											
	¿											
	¡											
	1											

SP: Blank Space

LOWERCASE CHARACTER

Digit Code	1	2	3	4	5	6	7	8	9	0	*	#
Character	.	a	d	g	j	m	p	t	w	SP	*	#
	,	b	e	h	k	n	q	u	x	0		
	:	c	f	i	l	o	r	v	y			
	!	à	è	ì	5	ñ	s	ù	z			
	?	á	é	í		ò	ß	ú	9			
	-	â	ê	î		ó	7	û				
	+	ä	ë	ï		ô		ü				
	%	å	3	4		Õ		8				
	&	æ				ö						
	/	ç				6						
	(	2										
	)											
	=											
	¿											
	¡											
	1											

SP: Blank Space

Note: õ is displayed in capital letter. There is no small letter for this character available.

For Azerbaijani, available characters in Local Phonebook are as follows.

UPPERCASE CHARACTER

Digit Code	1	2	3	4	5	6	7	8	9	0	*	#
Character	.	A	D	G	J	M	P	T	W	SP	*	#
	,	B	E	H	K	N	Q	U	X	0		
	:	C	F	I	L	O	R	V	Y			
	!	À	É	4	5	Ñ	S	Ü	Z			
	?	Á	Ê			Ö	Ş	8	9			
	-	Â	3			6	7					
	+	Ã										
	%	Ä										
	&	Å										
	/	Ə										
	(	Ç										
	)	2										
	=											
	¿											
	İ											
	1											

SP: Blank Space

LOWERCASE CHARACTER

Digit Code	1	2	3	4	5	6	7	8	9	0	*	#
Character	.	a	d	g	j	m	p	t	w	SP	*	#
	,	b	e	h	k	n	q	u	x	0		
	:	c	f	i	l	o	r	v	y			
	!	à	è	ì	5	ñ	s	ù	z			
	?	á	é	í		ò	ş	ú	9			
	-	â	ê	î		ó	7	û				
	+	ä	ë	ï		ô		ü				
	%	å	3	4		Õ		8				
	&	ə				ö						
	/	ç				6						
	(	2										
	)											
	=											
	¿											
	İ											
	1											

SP: Blank Space

Note: õ is displayed in capital letter. There is no small letter for this character available.

6. DIRECTORY OPERATION

This chapter explains Personal Directory. By using Personal Directory, you can make a call with simple operation.

Personal Directory function can register up to 500 entries (four telephone numbers per entry). You can add/view/edit/delete these entries.

TO ADD NEW DATA

STEP 1: Display the **Menu** screen, and select **Directory**.

- OR -

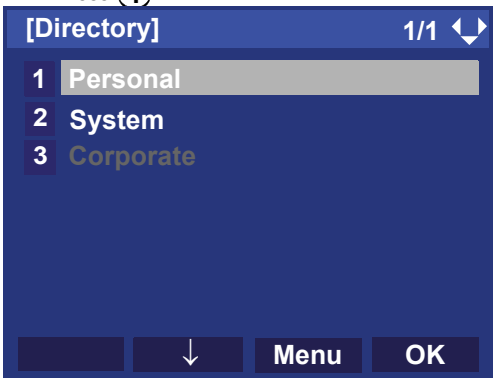
Press (**Directory**). The **Directory** screen shown at STEP 3 can be directly displayed.

STEP 2: Choose 1 **Personal**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.

- Press 1.

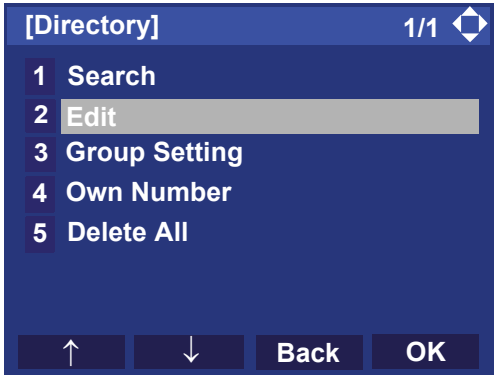


Note: When using Phonebook feature is disabled by the setting on the system, this screen will not be displayed. In that case, skip this step.

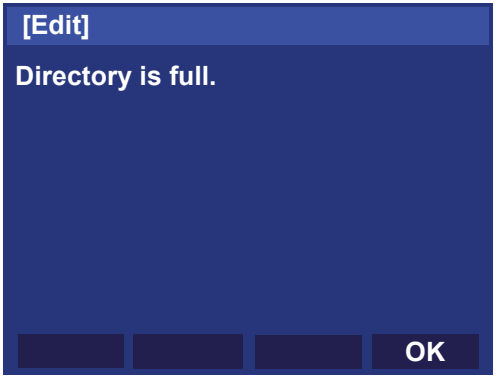
STEP 3: Select 2 **Edit**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 2.



Note: If the Personal/Terminal directory contains 500 entries, the following screen appears.



To go back to the Directory screen, press or the OK key, and delete some entries from 1 Search.

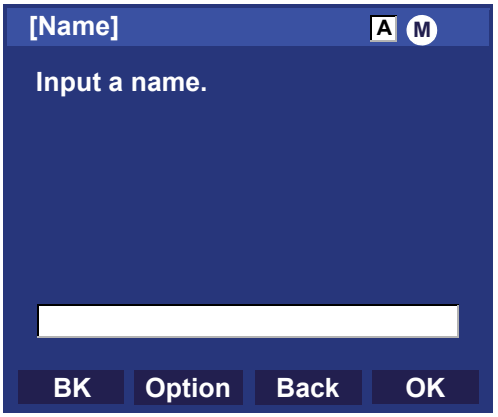
STEP 4: Select 1 **Name**.

Select an item by one of the following operations.

- Highlight an item by using , and press , or the **OK** key.
- Press 1.

STEP 5: Enter a name to be registered in directory.

Enter a name by using digits keys. After entering the name, press or the **OK** key.

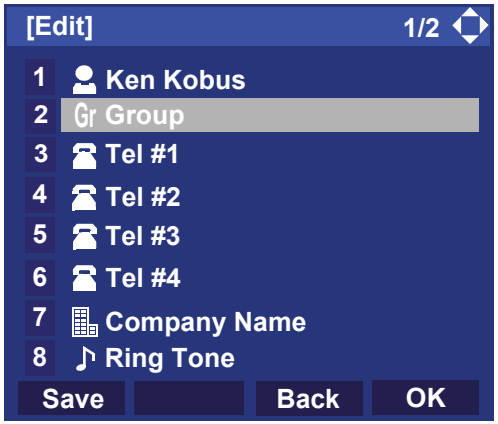


Note: Up to 32 characters can be entered as a group name. For details on character entry method, see HOW TO INPUT CHARACTERS.

STEP 6: The display goes back to the **Edit** screen. Select 2 **Group**.

Select an item by one of the following operations.

- Highlight an item by using , and press , or the **OK** key.
- Press 2.

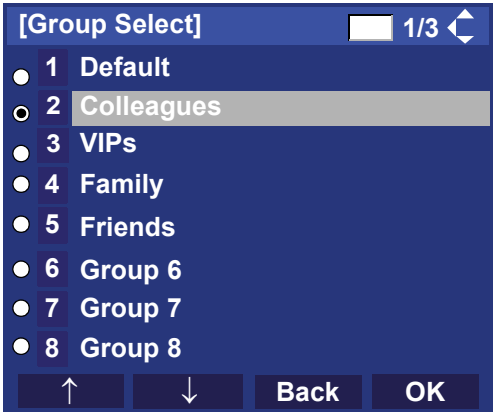


STEP 7: Select a desired group.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press the digit key of desired number, and press or the **OK** key.

In this example, 2 **Colleagues** is selected.

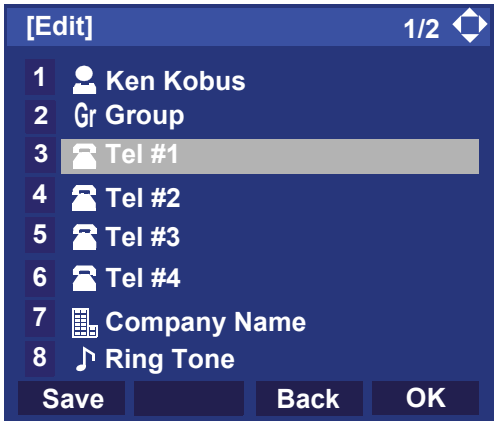


Note: Each group name can be changed from the Group Setting screen. For details, see TO CHANGE GROUP NAME.

STEP 8: Select 3 **Tel #1**.

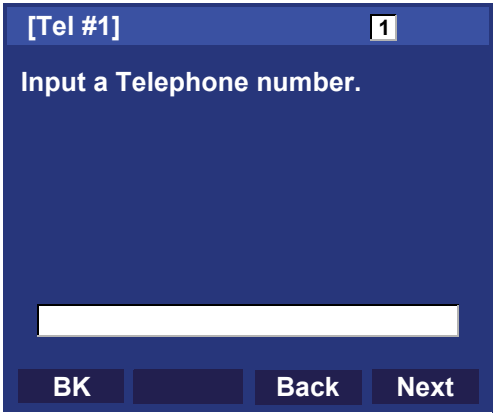
Select an item by one of the following operations.

- Highlight an item by using , and press , or the **OK** key.
- Press 3.



STEP 9: Enter a telephone number to be registered in directory.

Enter a telephone number by using digits keys. After entering the telephone number, press or the **Next**.

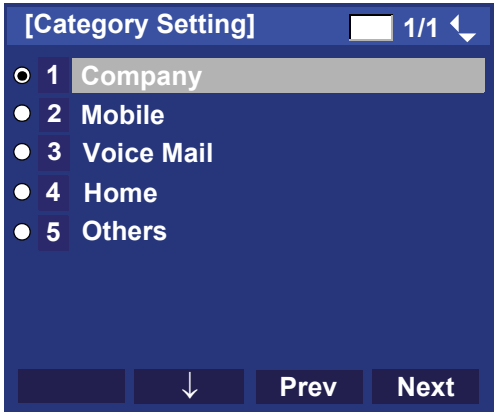


STEP 10: Select a Category to which the entered telephone number belongs.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **Next**.
- Press 0 - 5, and press or the **Next**.

In this example, 1 **Company** is selected.



Selectable categories are as follows:

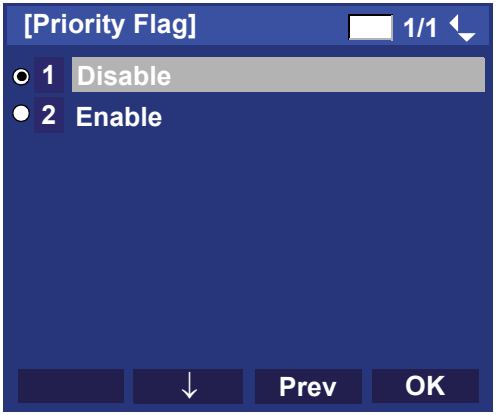
Category	ICON
Company	
Mobile	
Voice Mail	VM
Home	
Others	etc

STEP 11: Choose either 1 **Disable** or 2 **Enable**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 1 or 2, and press or the **OK** key.

A maximum of four telephone numbers can be set to an entry. If 2 **Enable** is selected here, the telephone number which is being edited will be given top priority. In that case, the telephone number is automatically selected when you make a call without specifying a specific telephone number.



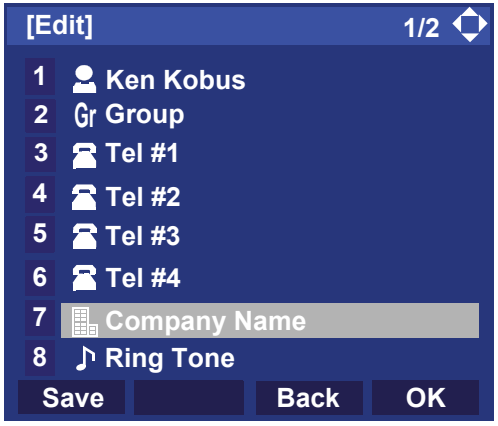
STEP 12: The display goes back to the **Edit** screen again. Select 7 **Company Name**.

Select an item by one of the following operations.

- Highlight an item by using , and press , , or the **OK** key.
- Press 7.

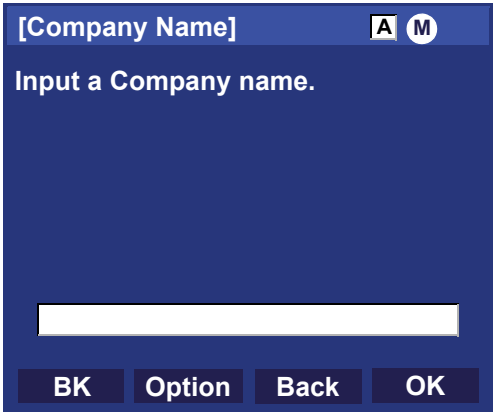
Note: A maximum of four telephone numbers can be set to an entry. If two or more telephone numbers are required to be set, set the remaining telephone numbers to Tel #2 - Tel #4.

Note: If multiple telephone numbers are registered to an entry and Priority Flag is disabled to all of the telephone numbers, the telephone number set to Tel #1 is automatically set as first priority number.



STEP 13: Enter a company name.

Enter a company name by using digits keys. After entering the company name, press or the **OK** key.

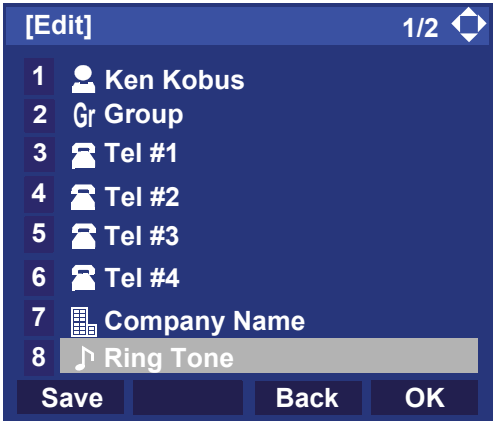


Note: Up to 32 characters can be entered as a company name. For details on character entry method, see HOW TO INPUT CHARACTERS.

STEP 14:The display goes back to the **Edit** screen. Select 8 **Ring Tone**.

Select an item by one of the following operations.

- Highlight an item by using , and press , or the **OK** key.
- Press (8).



STEP 15:Select a desired Ringing Tone.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press the digit key of desired number, and press or the **OK** key.

For example, press (1) + (7) to select 17 **Download1**.

Note: You can set ringer tone for calls routed from the specific name (calling party) here. Ringer Tone type can be set for “Name”, “Group” and “Telephone set”. The ringer Tone type set for “Name” has higher priority than the types set for “Group” and “Telephone set”.

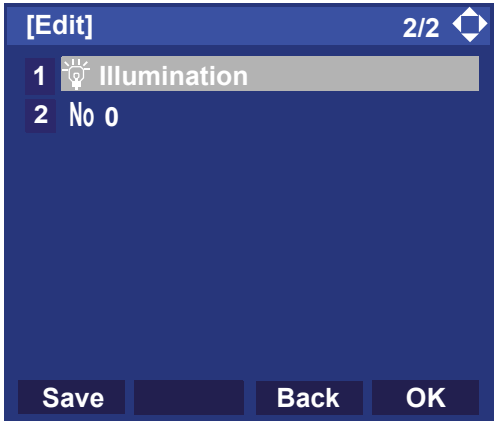
Note: Set Default when you don’t want to change the ringer tone here. The setting for “Group” or “Telephone set” is applied. Also, when Automatic is set, Tone Type 1 is automatically applied.

Note: For details on each ringer tone type, see TO SET RINGER TONE.

STEP 16: The display goes back to the **Edit** screen. Select 9 **Illumination**.

Select an item by one of the following operations.

- Highlight an item by using , and press , or the **OK** key.
- Press (9).

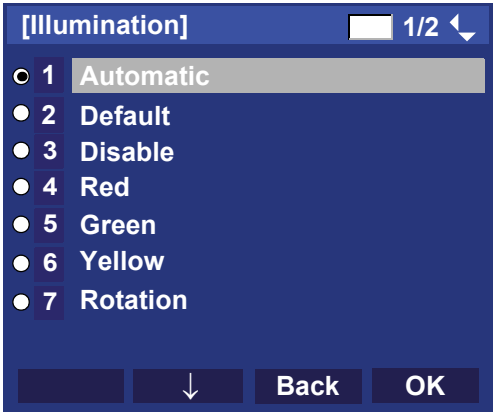


STEP 17: Select a desired color of the Call Indication lamp.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press the digit key of desired number, and press or the **OK** key.

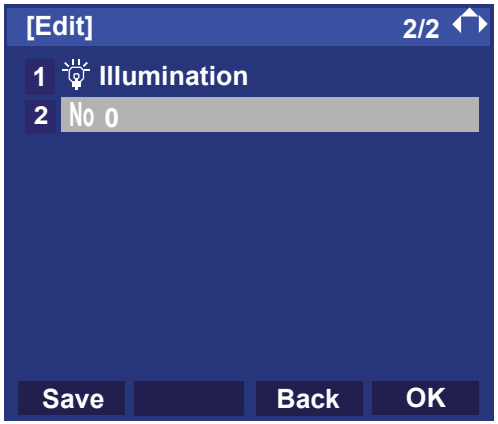
For example, press (1) + (0) to select 10 **White**.



Note: You can set illumination type for calls routed from the specific name (calling party) here. Illumination type can be set for "Name", "Group" and "Telephone set". The illumination type set for "Name" has higher priority than the types set for "Group" and "Telephone set".

Note: Set Default when you don't want to change the illumination type here. The setting for "Group" or "Telephone set" is applied. Also, when Automatic is set, Red is automatically applied.

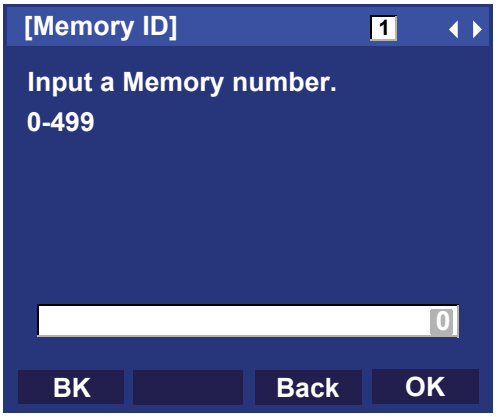
STEP 18:The display goes back to the **Edit** screen. Check the memory number assigned to the directory data being edited.



Note: A memory number is automatically set in ascending numeric order.

STEP 19:If you need to assign a memory number manually, select 0 **Memory ID** on the screen of the previous step, and enter a desired memory number (0 - 499).

Enter a memory number by using digits keys. After entering the memory number, press or the **OK** key.



STEP 20:When the display goes back to the **Edit** screen, press **Save** to save the assigned data.

STEP 21:"The data is registered at memory number: "XX" is displayed. Press or the **OK** key. The display returns to the **Directory** screen.

Note: If Name is not entered, "No Input Name" will appear. Name information is required for a entry.

Note: If a duplicate Memory ID is entered, "It will overwrite a data at memory number: XX" will appear. If you do not overwrite the Memory ID, press Back. If you overwrite the Memory ID, press or the OK key.

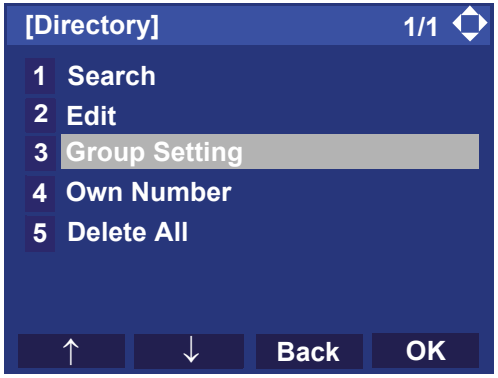
TO CHANGE GROUP NAME

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA: STEP1 - STEP3.)

STEP 2: On the **Directory** screen, select 3 **Group Setting**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 3.

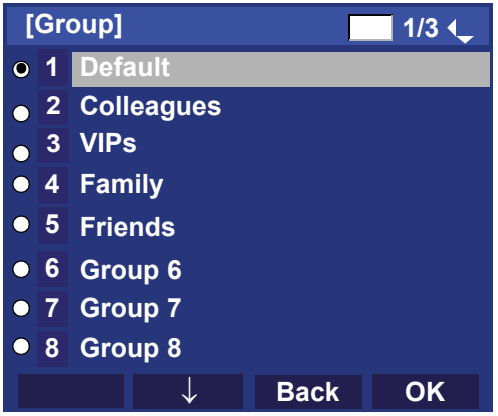


STEP 3: Select a group name to be changed.

In this example, 1 **Default** is selected.

Select an item by one of the following operations.

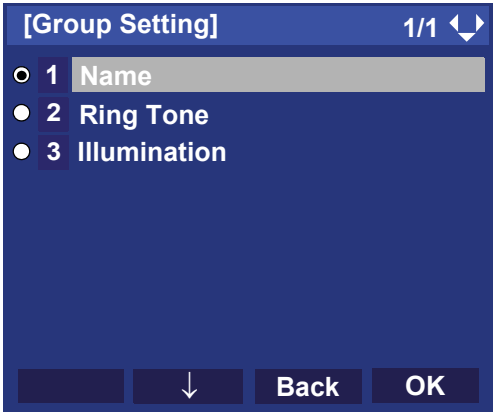
- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 1, and press or the **OK** key.



STEP 4: Select 1 **Name**.

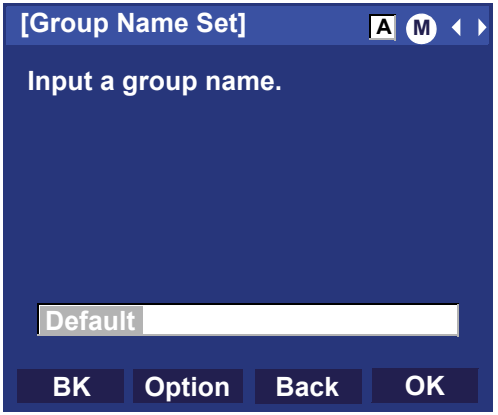
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 5: Enter a new group name.

Enter a group name by using digits keys. After entering the group name, press or the **OK** key.



Note: Up to 32 characters can be entered as a group name. For details on character entry method, see HOW TO INPUT CHARACTERS.

STEP 6: Display returns to the **Group** screen. Make sure that the new group name takes effect.

Note: You can set ringer tone (-> select 2 Ring Tone) and illumination types (-> select 3 Illumination) for calls routed from the specific group here.

Ringer tone and illumination types can be set for “Name”, “Group” and “Telephone set”. The ringer tone and illumination types set for “Name” have higher priority than the types set for “Group and Telephone set”.

Also, the ringer tone and illumination types for Group have higher priority than the types set for Terminal set.

TO FIND A REGISTERED DATA

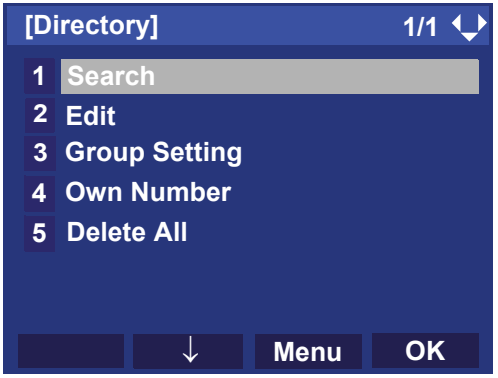
- **To Search by Group Name**

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA: STEP1 - STEP3.)

STEP 2: On the **Directory** screen, select 1 **Search**.

Select an item by one of the following operations.

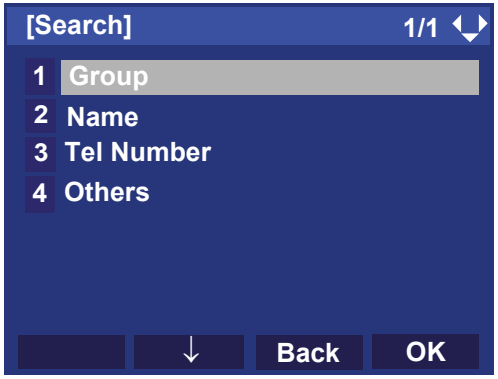
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 3: Select 1 **Group**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.

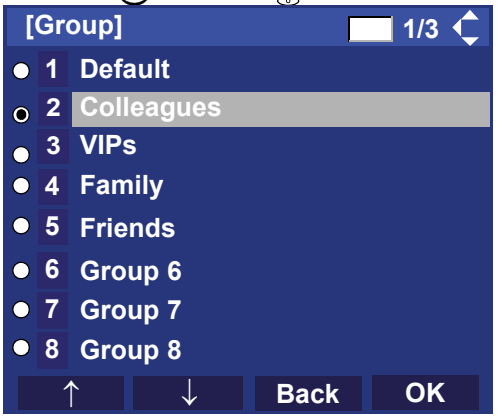


STEP 4: Select a target group.

In this example, 2 **Colleagues** is selected.

Select an item by one of the following operations.

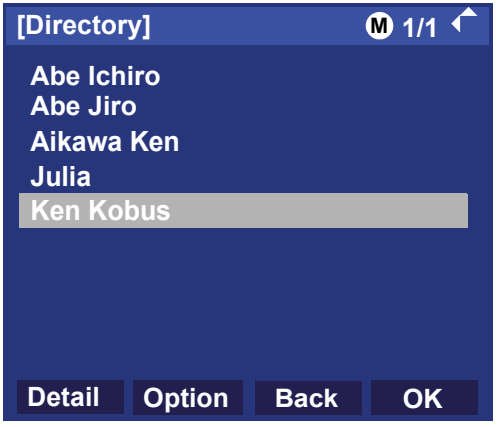
- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 2, and press or the **OK** key.



STEP 5: Select a target name by pressing .

In the following **Directory (Name List)** screen, you can make a call to the selected party by pressing or the **Call**.

If two or more telephone numbers are assigned to an entry, a top priority telephone number will be dialed.

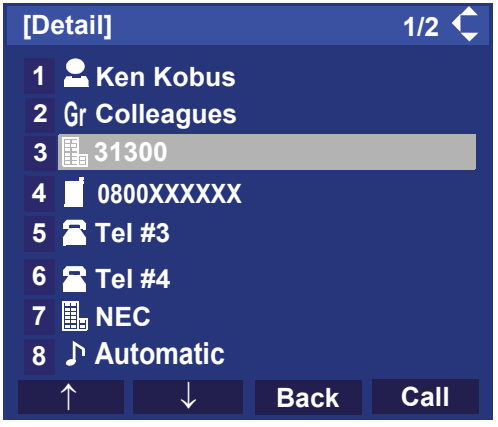


Note: If no entry is set to the selected group, "No data" is issued on the screen.

STEP 6: To display the detailed data for a specific name, press **Detail** while the name is highlighted.

Note: If two or more telephone numbers are assigned to an entry, a top priority telephone number is automatically selected when the Detail screen appears.

In the following **Detail** screen, you can make a call to the selected number by pressing or the **Call**.



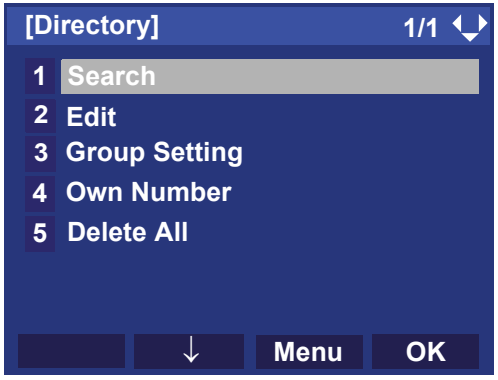
- **To Search by Name**

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA: STEP1 - STEP3.)

STEP 2: On the **Directory** screen, select 1 **Search**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



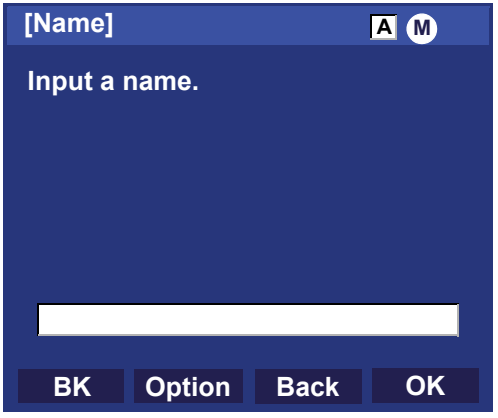
STEP 3: Select 2 **Name**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 2.

STEP 4: Enter a target name.

After entering the name, press or the **OK** key.



Note: A distinction is made between upper case and lower case characters, according as the system settings. For example, "Ken Kobus" and "ken kobus" are distinguished as different character strings. For details, contact the system administrator.

Note: A blank space is also distinguished while searching database for a name.

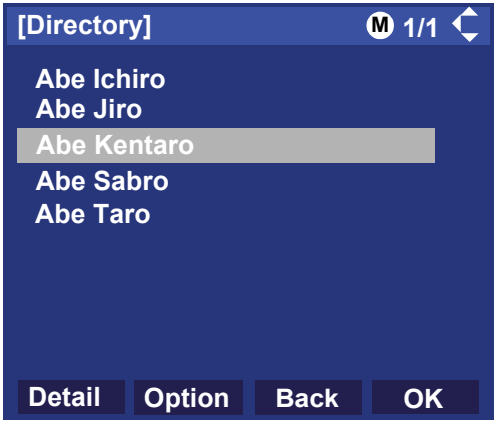
Note: Up to 32 characters can be entered as a company name. For details on character entry method, see HOW TO INPUT CHARACTERS.

Note: Even if the name is not entered to the end, you can search for a name.

Note: If there is no entry corresponding to the entered name, "No data" is issued on the screen.

STEP 5: Select a target name by pressing .

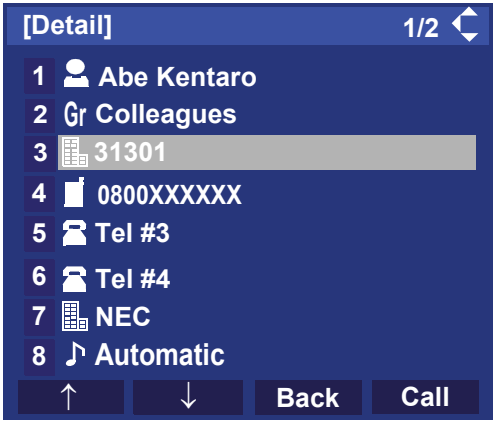
In the following **Directory (Name List)** screen, you can make a call to the selected party by pressing or the **Call**. If two or more telephone numbers are assigned to an entry, a top priority telephone number will be dialed.



STEP 6: To display the detailed data for a specific name, press **Detail** while the name is highlighted.

Note: If two or more telephone numbers are assigned to an entry, a top priority telephone number is automatically selected when the Detail screen appears.

In the following **Detail** screen, you can make a call to the selected number by pressing or the **Call**.



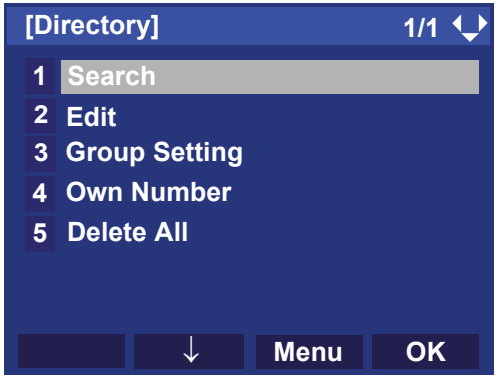
• To Search by Telephone Number

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA: STEP1 - STEP3.)

STEP 2: On the **Directory** screen, select 1 **Search**.

Select an item by one of the following operations.

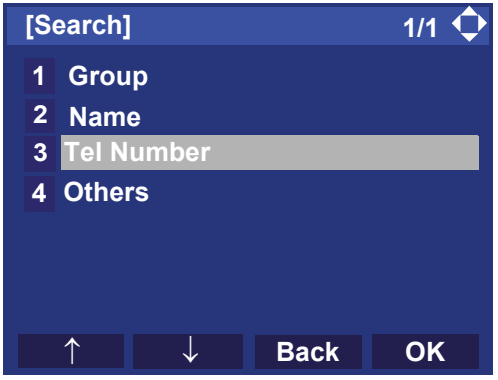
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 3: Select 3 **Tel Number**.

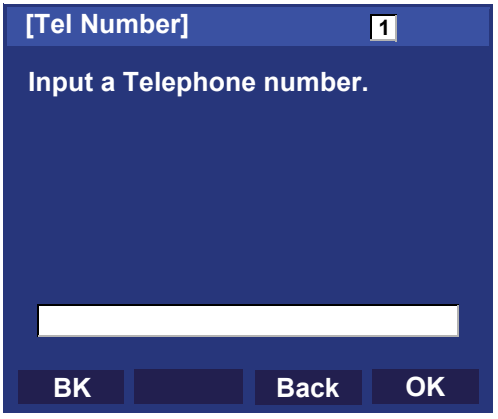
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 3.



STEP 4: Enter a target telephone number.

After entering the number, press or the **OK** key.

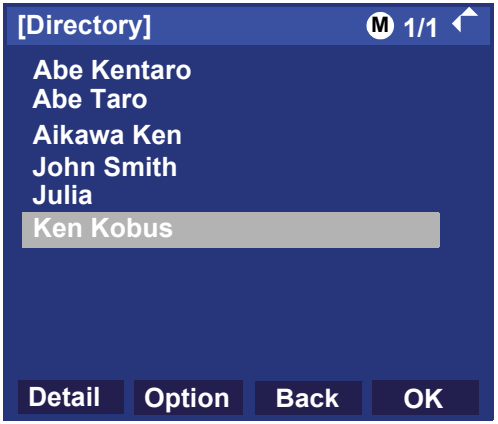


Note: Even if the telephone number is not entered to the end, you can search for a telephone number.

STEP 5: Select a target name by pressing .

In the following **Directory (Name List)** screen, you can make a call to the selected party by pressing or the **Call**.

If two or more telephone numbers are assigned to an entry, a top priority telephone number will be dialed.

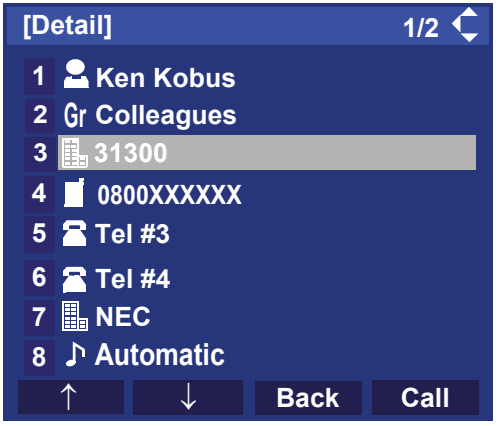


Note: If there is no entry corresponding to the entered number, "No data" is issued on the screen.

STEP 6: To display the detailed data for a specific name, press **Detail** while the name is highlighted.

Note: If two or more telephone numbers are assigned to an entry, a top priority telephone number is automatically selected when the Detail screen appears.

In the following **Detail** screen, you can make a call to the selected number by pressing or the **Call**.



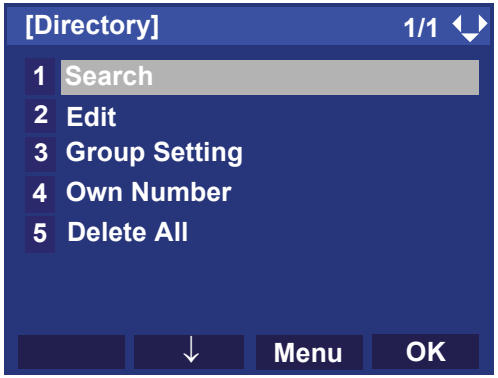
- **To Search by Memory ID**

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA: STEP1 - STEP3.)

STEP 2: On the **Directory** screen, select 1 **Search**.

Select an item by one of the following operations.

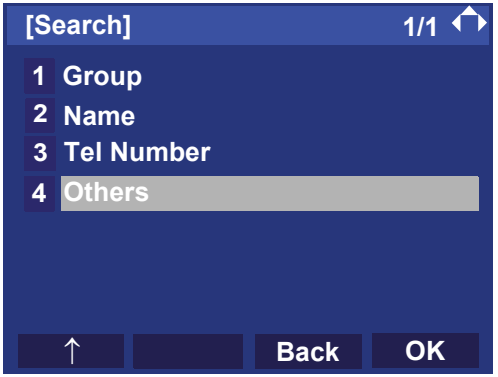
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 3: Select 4 **Others**.

Select an item by one of the following operations.

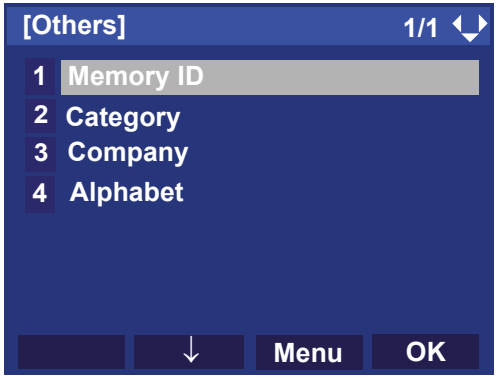
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 4.



STEP 4: Select 1 **Memory ID**.

Select an item by one of the following operations.

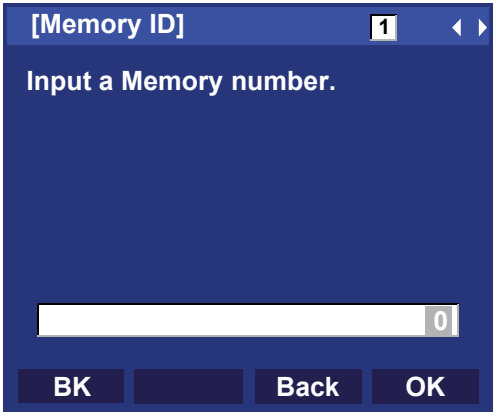
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 5: Enter a memory number (0-499).

After entering the memory number, press or the **OK** key.

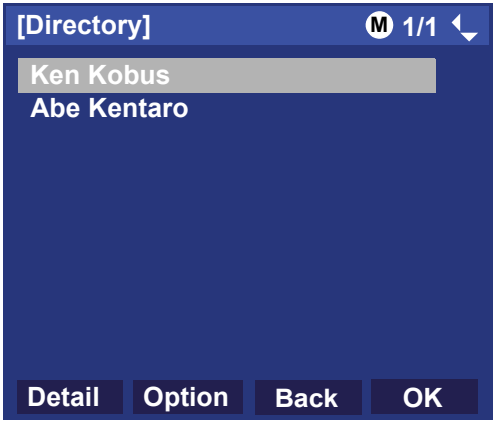
The list of memory numbers will be displayed, with the entered memory number or the number closest to the entered number in front.



STEP 6: Select a target name by pressing .

In the following **Directory (Name List)** screen, you can make a call to the selected party by pressing or the **Call**.

If two or more telephone numbers are assigned to an entry, a top priority telephone number will be dialed.

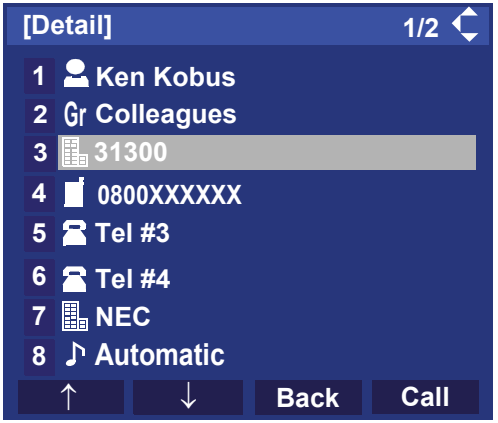


Note: If no data exists in Directory, "No data" is issued on the screen.

STEP 7: To display the detailed data for a specific name, press **Detail** while the name is highlighted.

Note: If two or more telephone numbers are assigned to an entry, a top priority telephone number is automatically selected when the Detail screen appears.

In the following **Detail** screen, you can make a call to the selected number by pressing or the **Call**.



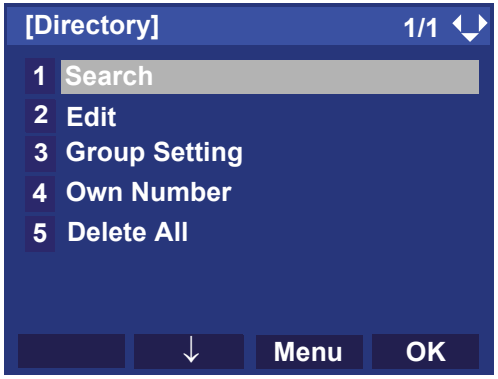
- **To Search by Category**

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA: STEP1 - STEP3.)

STEP 2: On the **Directory** screen, select 1 **Search**.

Select an item by one of the following operations.

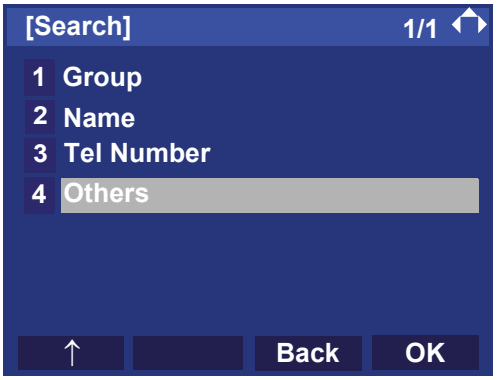
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).



STEP 3: Select 4 **Others**.

Select an item by one of the following operations.

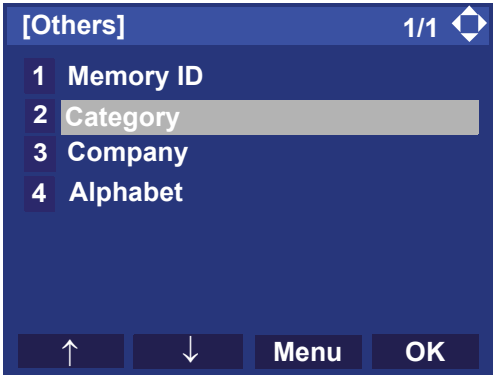
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (4).



STEP 4: Select 2 **Category**.

Select an item by one of the following operations.

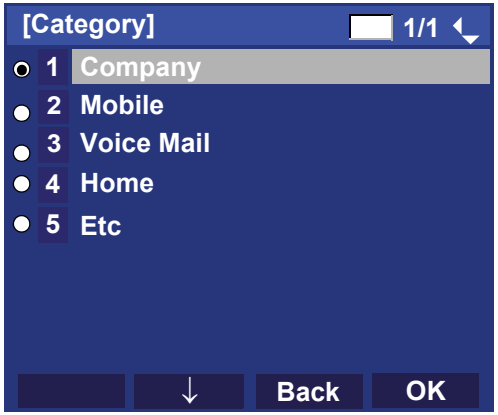
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (2).



STEP 5: Select a desired category.

In this example, 1 **Company** is selected.
Select an item by one of the following operations.

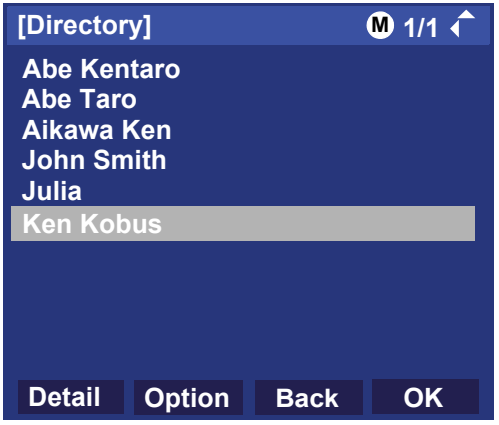
- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 1, and press or the **OK** key.



STEP 6: Select a target name by pressing .

In the following **Directory (Name List)** screen, you can make a call to the selected party by pressing or the **Call**.

If two or more telephone numbers are assigned to an entry, a top priority telephone number will be dialed.

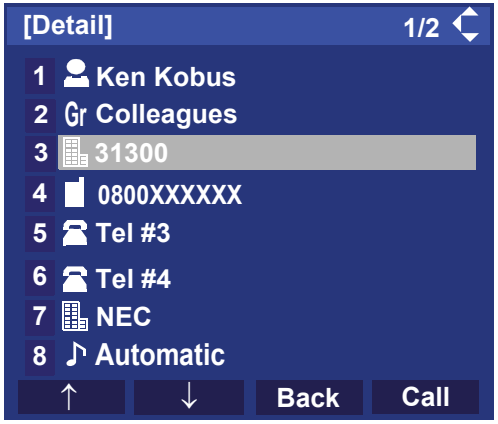


Note: If there is no entry corresponding to the selected category, "No data" is issued on the screen.

STEP 7: To display the detailed data for a specific name, press **Detail** while the name is highlighted.

Note: If two or more telephone numbers are assigned to an entry, a top priority telephone number is automatically selected when the Detail screen appears.

In the following **Detail** screen, you can make a call to the selected number by pressing or the **Call**.



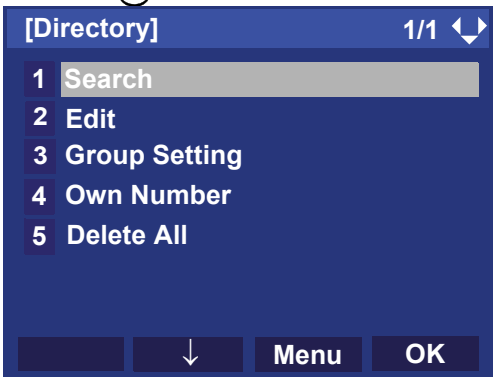
• To Search by Company Name

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA: STEP1 - STEP3.)

STEP 2: On the **Directory** screen, select 1 **Search**.

Select an item by one of the following operations.

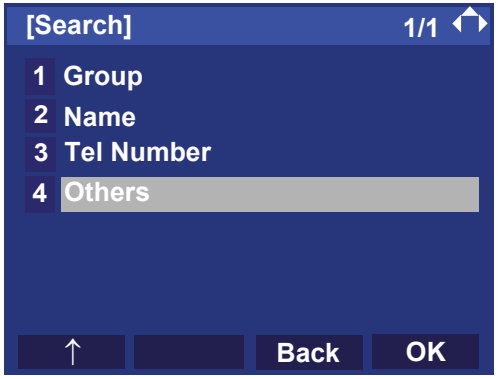
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 3: Select 4 **Others**.

Select an item by one of the following operations.

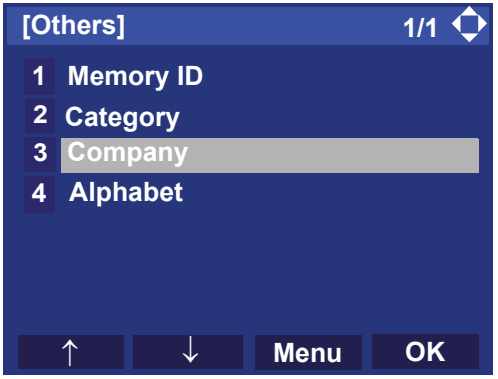
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 4.



STEP 4: Select 3 **Company**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 3.



STEP 5: Enter a company name.

After entering the name, Press or the **OK** key.

Note: A distinction is made between upper case and lower case characters. For example, "Ken Kobus" and "ken kobus" are distinguished as different character strings.

Note: A blank space is also distinguished while searching database for a name.

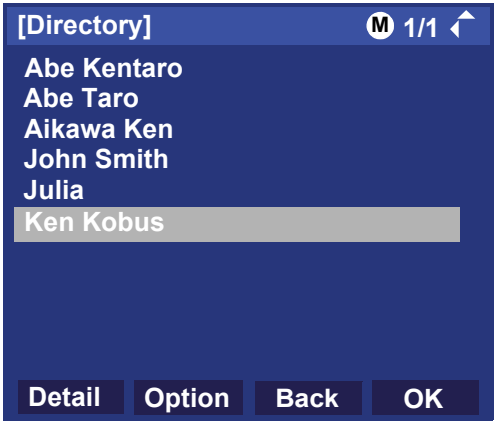
Note: Up to 32 characters can be entered as a company name. For details on character entry method, see HOW TO INPUT CHARACTERS.

Note: If there is no entry corresponding to the entered company name, "No data" is issued.

STEP 6: Select a target name by pressing .

In the following **Directory (Name List)** screen, you can make a call to the selected party by pressing or the **Call**.

If two or more telephone numbers are assigned to an entry, a top priority telephone number will be dialed.

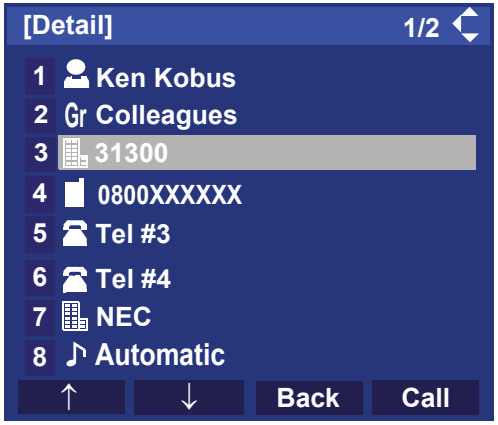


Note: If there is no entry corresponding to the selected Company, "No data" is issued on the screen.

STEP 7: To display the detailed data for a specific name, press **Detail** while the name is highlighted.

Note: If two or more telephone numbers are assigned to an entry, a top priority telephone number is automatically selected when the Detail screen appears.

In the following **Detail** screen, you can make a call to the selected number by pressing or the **Call**.



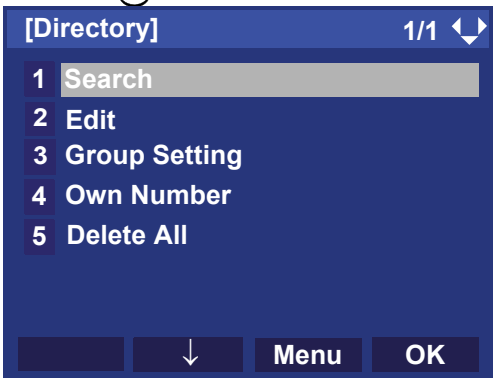
• To Search by Alphabet

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA: STEP1 - STEP3.)

STEP 2: On the **Directory** screen, select 1 **Search**.

Select an item by one of the following operations.

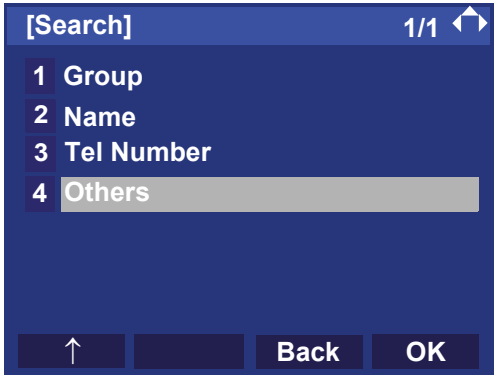
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 3: Select 4 **Others**.

Select an item by one of the following operations.

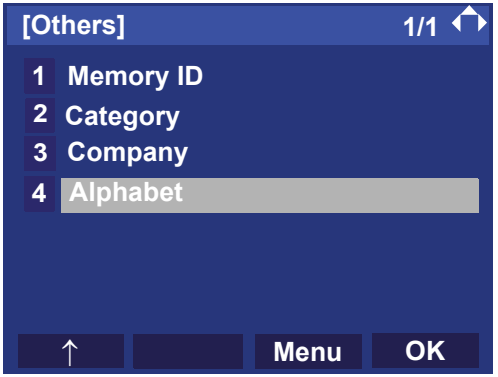
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 4.



STEP 4: Select 4 **Alphabet**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 4



STEP 5: Select **a desired group of alphabets**.

In this example, 0 **ABC** is selected.
Select an item by one of the following operations.

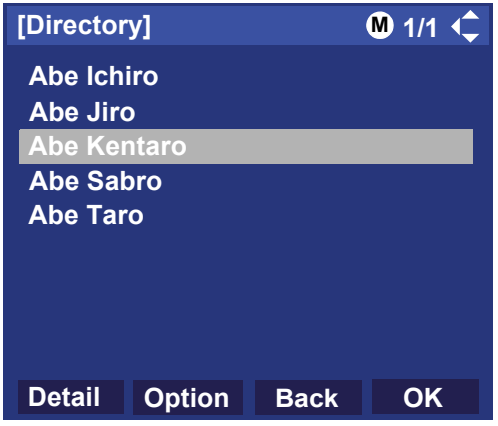
- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 0, and press or the **OK** key.

Note: Select Others to find names which begin with a character other than alphabet such as numerics or symbols.

STEP 6: Select a target name by pressing .

In the following **Directory (Name List)** screen, you can make a call to the selected party by pressing or the **Call**.

If two or more telephone numbers are assigned to an entry, a top priority telephone number will be dialed.

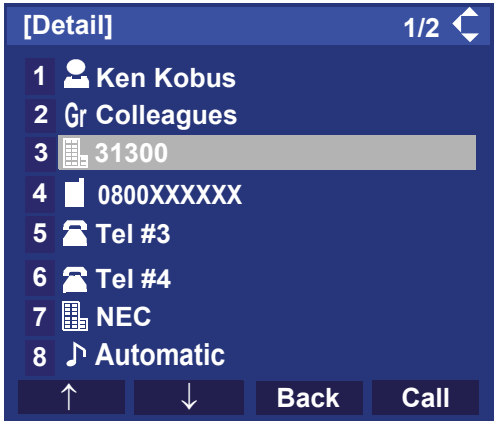


Note: If there is no entry corresponding to the group of alphabets, "No data" is issued on the screen.

STEP 7: To display the detailed data for a specific name, press **Detail** while the name is highlighted.

Note: If two or more telephone numbers are assigned to an entry, a top priority telephone number is automatically selected when the Detail screen appears.

In the following **Detail** screen, you can make a call to the selected number by pressing or the **Call**.

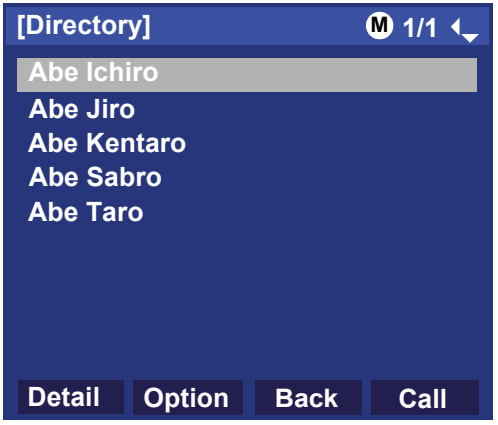


TO MAKE A CALL FROM DIRECTORY

Note: While Directory screen is being displayed, you cannot make a call by dialing a telephone number.

- **To Make a Call from Name List Screen**

STEP 1: Display the **Directory (Name List)** screen for a target party (see TO FIND A REGISTERED DATA).



STEP 2: Select a target name, and make a call.

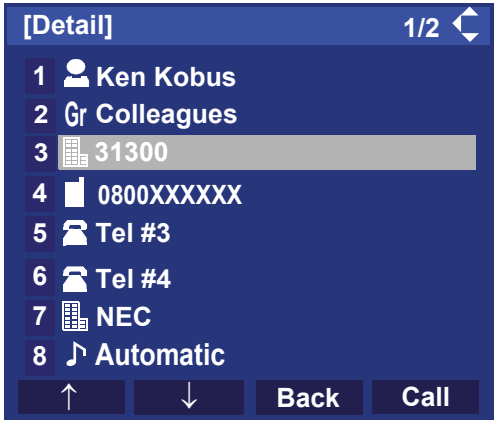
Select a target name by pressing , and press or the **Call** to make a call to the selected party.

Note: If multiple telephone numbers are registered to a target party, a call is made to the first priority telephone number.

- **To Make a Call from Detail Screen**

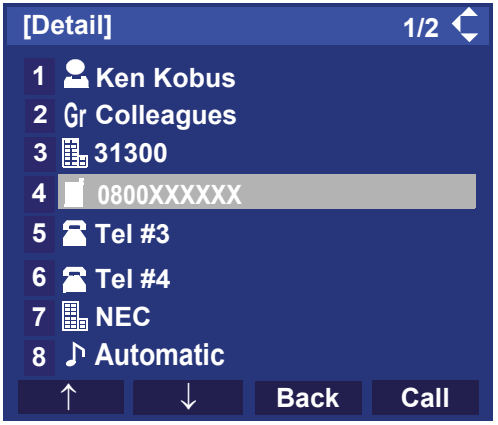
STEP 1: Display the **Detail** screen for a target party (see TO FIND A REGISTERED DATA).

Note: If two or more telephone numbers are assigned to an entry, a top priority telephone number is automatically selected when the Detail screen appears.



STEP 2: Select a target telephone number, and make a call.

Select a target telephone number by pressing or the **UP/DOWN** soft key, and press or the **Call** to make a call to the selected number.



TO ADD PREFIX TO NUMBER

- **To Set Prefix**

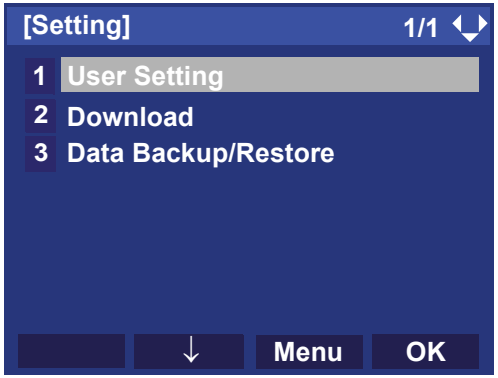
  When making a call, a prefix can be added to telephone numbers to be dialed. Prefixes need to be set in advance.

STEP 1: Display the **Menu** screen, and select **Setting**.

STEP 2: Select 1 **User Setting**.

Select an item by one of the following operations.

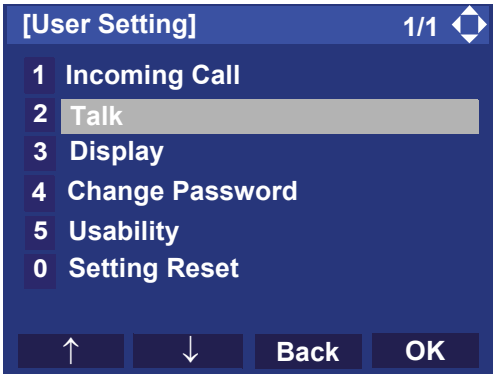
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (1).



STEP 3: Select 2 **Talk**.

Select an item by one of the following operations.

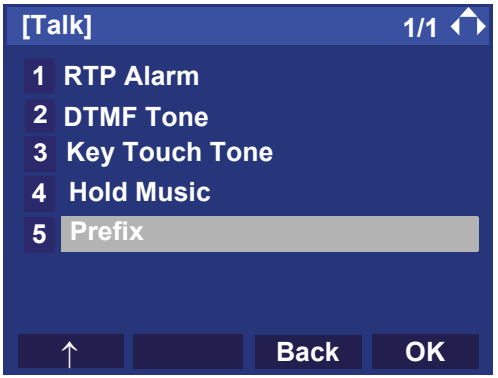
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (2).



STEP 4: Select 5 **Prefix**.

Select an item by one of the following operations.

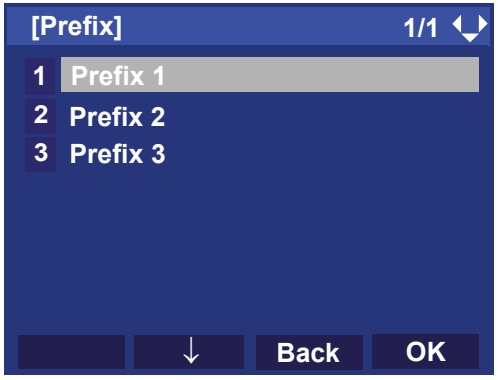
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press (5).



STEP 5: Select 1 **Prefix 1**.

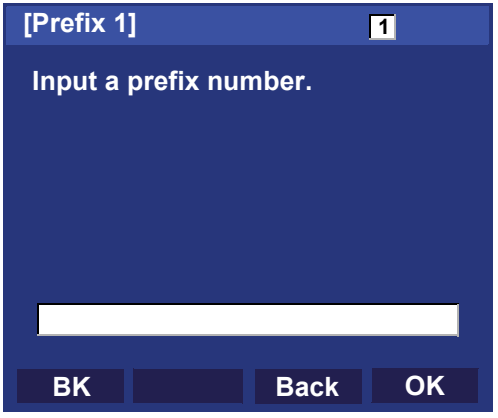
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.



STEP 6: Enter a prefix number.

Enter a prefix number by pressing the digit keys. After entering the prefix, press or the **OK** key.



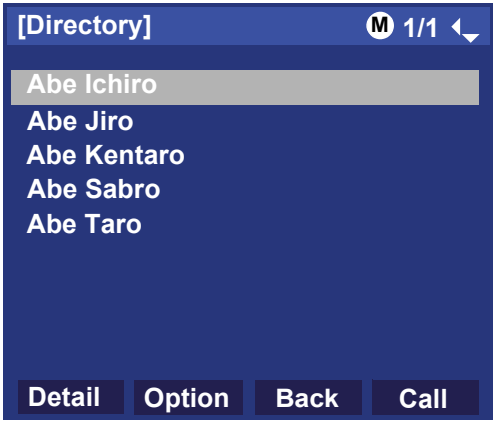
Note: A maximum of 10 digits (0-9, * and #) can be set as a prefix.

Note: When prefix is added, up to 32 digits including the prefix can be sent as dial number.

STEP 7: The display goes back the Prefix screen at STEP 6. If multiple prefixes need to be set, repeat STEP 5 and STEP 6. In that case, select 2 **Prefix 2** and 3 **Prefix 3**.

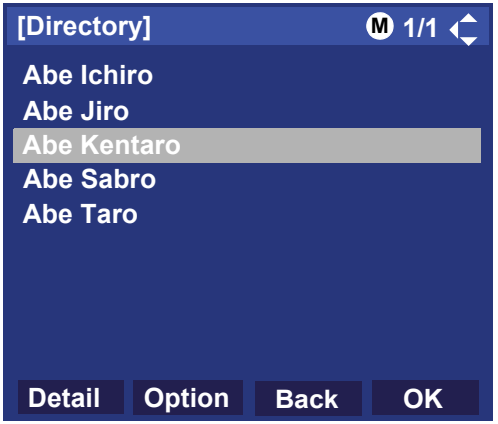
- **To Add Prefix When Making A Call**

STEP 1: Display the **Name List** screen for a target party (see TO FIND A REGISTERED DATA).



STEP 2: Select a target name and display SubMenu.

Select a target name by pressing and press **Help** or **Option**.

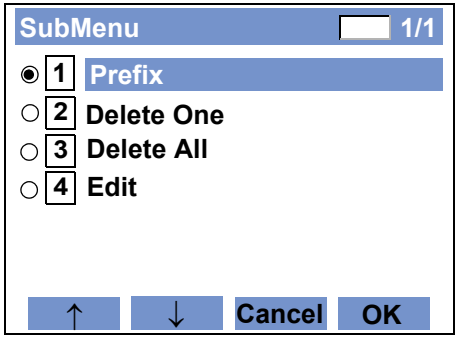


Note: If multiple telephone numbers are registered to a target party, a call is made to the first priority telephone number.

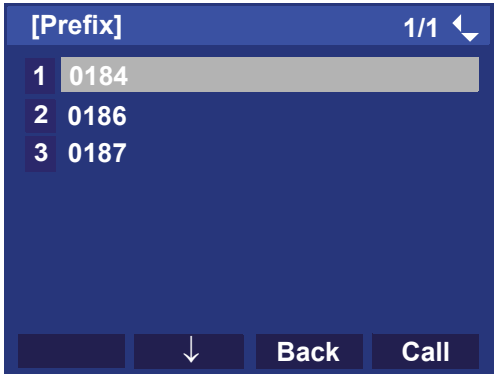
STEP 3: Select 1 **Prefix**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1, and press , or the **OK** key.

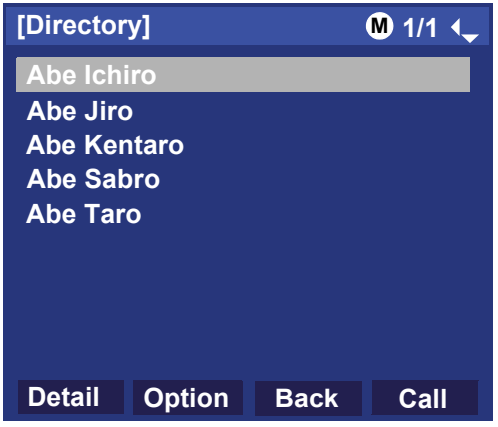


Predetermined prefixes are displayed. Select a prefix and press or the **Call** to make a call.



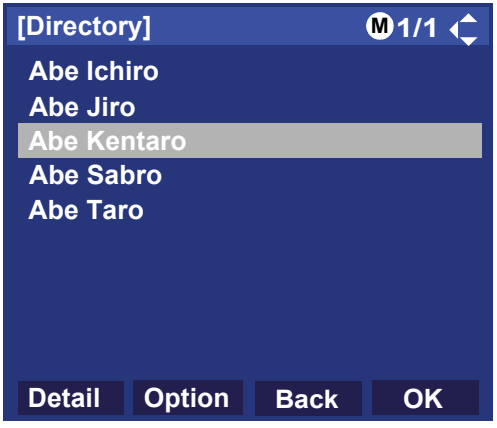
TO EDIT DIRECTORY DATA

STEP 1: Display the **Name List** screen for a target party (see TO FIND A REGISTERED DATA).



STEP 2: Select a target name and display SubMenu.

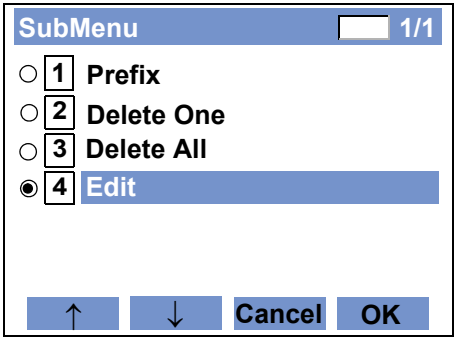
Select a target name by pressing , and press **Help** or **Option**.



STEP 3: Select 4 **Edit**.

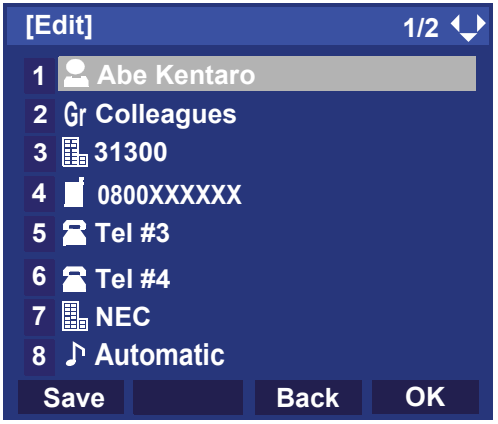
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 4, and press , or the **OK** key.

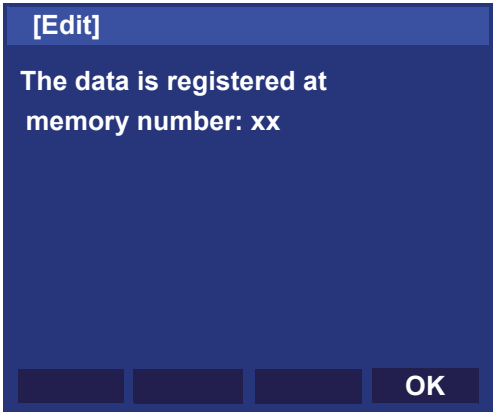


STEP 4: On the **Edit** screen, the detailed data for the selected name is displayed. Modify the necessary data by referring to TO ADD NEW DATA.

After the data modification is complete, press **Save** on the Edit screen.



STEP 5: After the data is saved, the display changes as follows.



STEP 6: Press or the **OK** key.

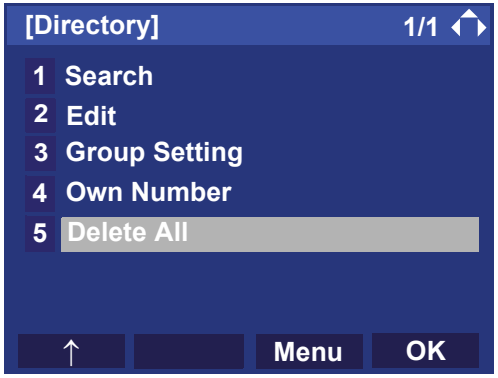
TO DELETE ALL DATA

STEP 1: Open the **Directory** screen (see TO ADD NEW DATA).

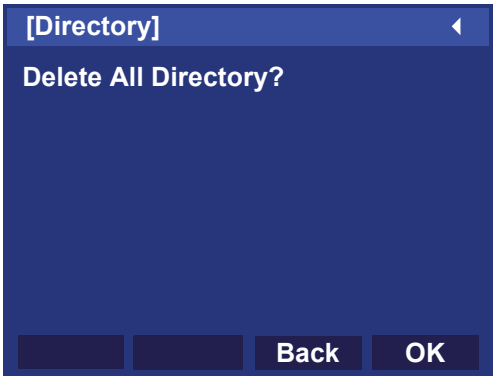
STEP 2: Select 5 **Delete All**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 5.

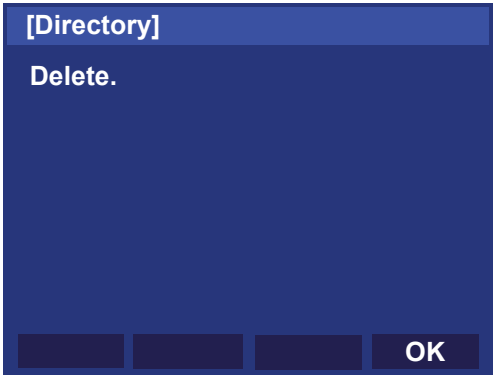


STEP 3: Press or the **OK** key to delete all the data.



Note: To cancel the data deletion, press or the **Back** soft key.

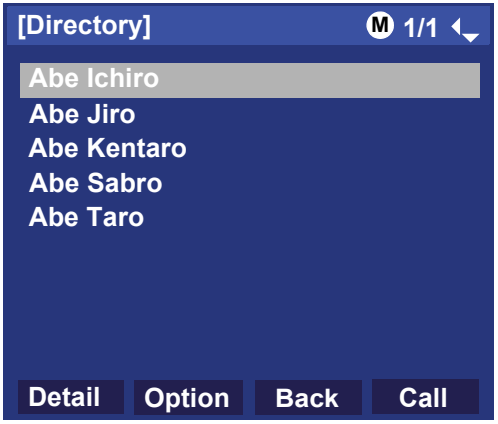
STEP 4: After all the directory data is deleted, the display changes as follows:



STEP 5: Press or the **OK** key.

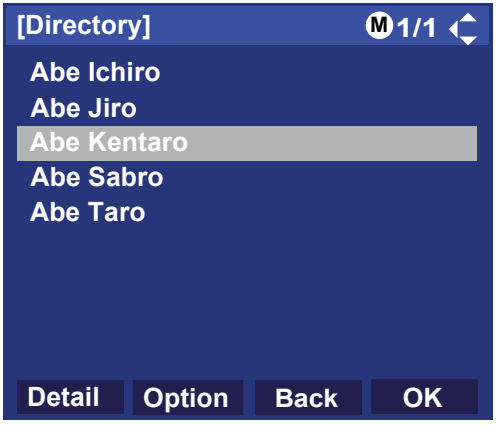
TO DELETE SPECIFIC DATA

STEP 1: Display the **Name List** screen for a name to be deleted (see TO FIND A REGISTERED DATA).



STEP 2: Select a name to be deleted and display Sub-Menu.

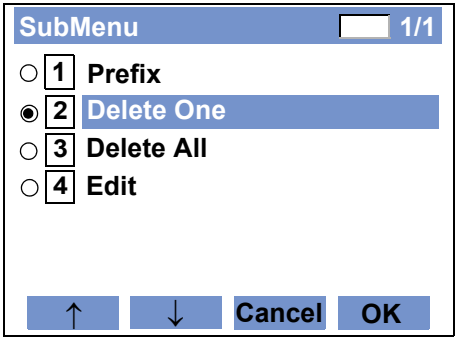
Select a target name by pressing ●, and press **Help** or **Option**.



STEP 3: Select 2 **Delete One**.

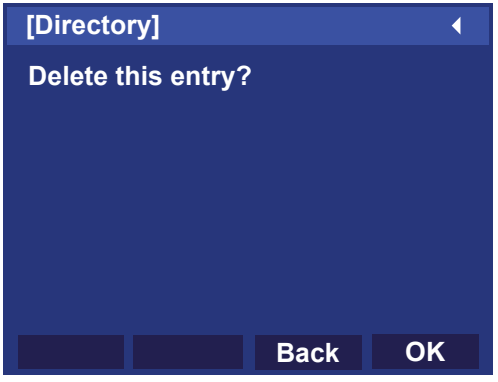
Select an item by one of the following operations.

- Highlight an item by using ● or the **UP/DOWN** soft key, and press ●, ● or the **OK** key.
- Press 2, and press ●, ● or the **OK** key.



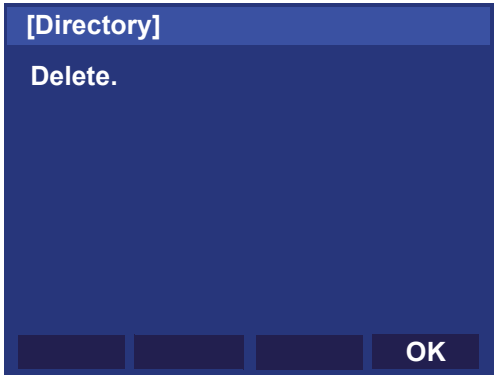
STEP 4: The following confirmation message appears.

Press ● or the **OK** key to delete the appropriate directory data.



Note: To cancel the data deletion, press or the **Back** soft key.

STEP 5: After the appropriate directory data is deleted, the display changes as follows:



STEP 6: Press or the **OK** key.

7. CALL HISTORY OPERATION

This chapter explains Call History. By using Call History, you can make a call and store a calling data.

There are two types of Call History features. One is Terminal Call History which stores the call history data on the terminal side. The other one is System Call History which stores the call history data on the system side.

- CALL HISTORY ON THE TERMINAL SIDE
- CALL HISTORY ON THE SYSTEM SIDE

Note: The type of Call History feature on your terminal depends on the setting of installation. Also, only one of them can be activated on the terminal. For details, contact the system administrator.

1. CALL HISTORY ON THE TERMINAL SIDE

This feature allows the telephone to register up to 50 records into its memory. If the number of registered records exceeds 50, a record will be deleted in order of occurrence.

- TO VIEW CALL HISTORY
- TO MAKE A CALL FROM CALL HISTORY
- TO ADD CALL HISTORY DATA TO DIRECTORY
- TO EDIT DIRECTORY DATA FROM CALL HISTORY
- TO DELETE ALL DATA
- TO DELETE SPECIFIC DATA

Note: Register Call History data to Personal Directory as necessary. Call History data will be cleared when powering off the telephone. However, Call History data can be backed up to your PC. About Backup/Restore, see "TO BACKUP PERSONAL SETTINGS" or "TO RESTORE PERSONAL SETTINGS" in "3. TERMINAL SETUP".

Note: The Call History data that is stored in the memory of each telephone cannot be added to Phonebook (both System Phonebook and Local Phonebook) controlled by the system.

TO VIEW CALL HISTORY

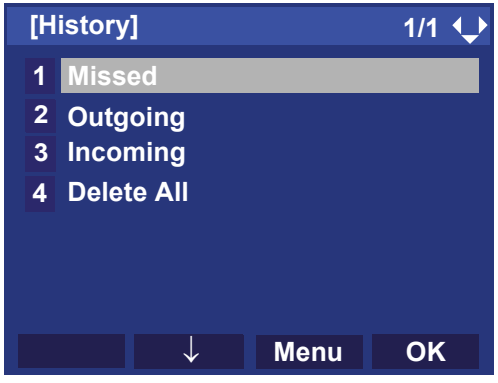
STEP 1: Display the **Menu** screen, and select **History**.

STEP 2: Select a kind of calls.

In this example, 1 **Missed** is selected.
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.

Item	Description
Missed	Display the history of unanswered (terminated to the My Line) incoming calls.
Outgoing	Display the history of outgoing calls.
Incoming	Display the history of answered and unanswered (terminated to the My Line) incoming calls.



STEP 3: The history data of the last received call is displayed.
If two or more records exist, use or the **UP/DOWN** soft key to display the next/former records.

Note: For missed calls, will be displayed on the left of the name.

Note: If there is no history data, "No data" will be displayed on LCD.

Note: If you make/answer a call to/from the telephone number which is registered to Personal Directory, the corresponding name will be displayed as call history data.

Note: To go back to Step 2, press or the **Back** soft key.

TO MAKE A CALL FROM CALL HISTORY

Note: While the history data is displayed, you cannot make a call by dialing a telephone number.

(CASE 1)

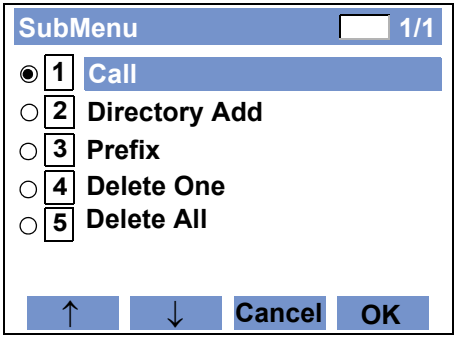
STEP 1: Display call history data of a target telephone number (see TO VIEW CALL HISTORY).
The following is an example when a history data of Missed Calls is displayed.

STEP 2: Press ⊛ to make a call to the telephone number.

(CASE 2)

STEP 1: Display call history data of a target telephone number (see TO VIEW CALL HISTORY).
The following is an example when a history data of Missed Calls is displayed.

STEP 2: On the above screen, press **Help** or **Option** to display the following SubMenu.



STEP 3: To make a call, select 1 **Call** and press , or the **OK** key.

Note: When making a call from Call History, a prefix can be added to the dial number. In that case, select 3 Prefix on the SubMenu (indicated at STEP 2 of CASE 2) to display the Prefix screen.

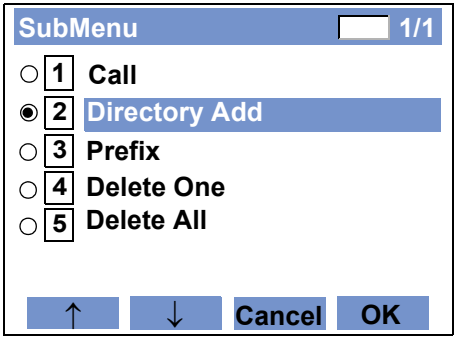
On the Prefix screen, choose a prefix to be added to the dial number. Also, prefixes need to be set in advance. For details on setting of prefix, see TO ADD PREFIX TO NUMBER.

TO ADD CALL HISTORY DATA TO DIRECTORY

STEP 1: Display call history data of a target telephone number (see TO VIEW CALL HISTORY).
The following is an example when history data of a Missed Calls is displayed.

Press **Help** or **Option** while displaying the call history data for the target telephone number.

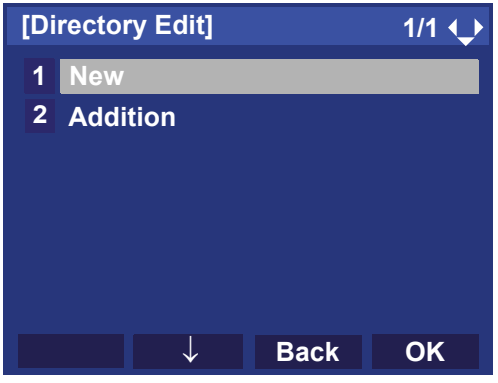
STEP 2: The following SubMenu is displayed. Select 2 **Directory Add**.
Select an item by one of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 2, and press , or the **OK** key.



STEP 3: Choose 1 **New**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.

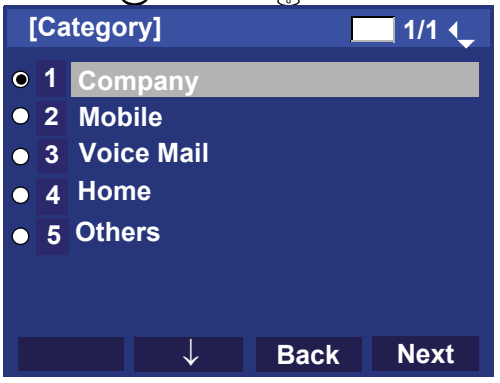


STEP 4: Select a category.

In this example, 1 **Company** is selected.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **Next** soft key.
- Press 1, and press or the **Next**.



Selectable categories are as follows:

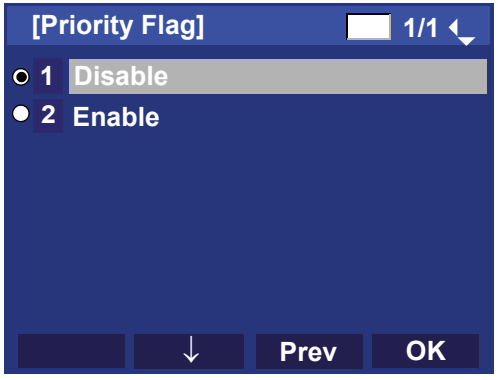
Category	ICON
Company	
Mobile	
Voice Mail	VM
Home	
Others	etc

STEP 5: Choose either 1 **Disable** or 2 **Enable**.

A maximum of four telephone numbers can be set to an entry. If 2 **Enable** is selected here, the telephone number which is being edited will be given top priority.
In that case, the telephone number is automatically selected when you make a call without specifying a specific telephone number.

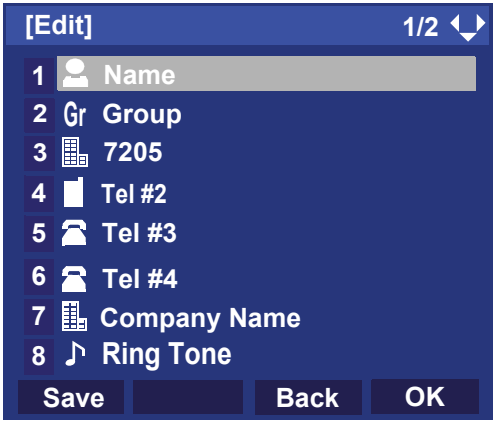
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 1 or 2, and press or the **OK** key.



STEP 6: The following **Edit** screen is displayed.
"7205" has been registered to Tel #1.

See "TO ADD NEW DATA" in Directory Operation, and register detailed data (such as name, group, etc) to directory.



Note: If the corresponding data is not stored in the Personal Directory, only the telephone number will be displayed as Tel #1.

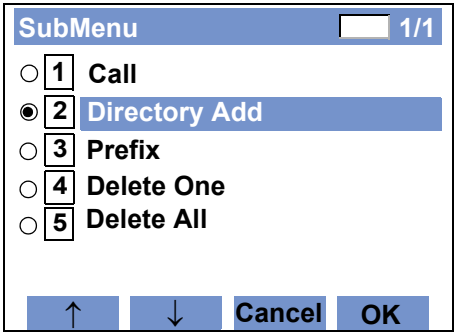
Note: If the corresponding data has already stored in the Personal Directory, the detailed data (such as name, group, or etc.) is displayed.

TO EDIT DIRECTORY DATA FROM CALL HISTORY

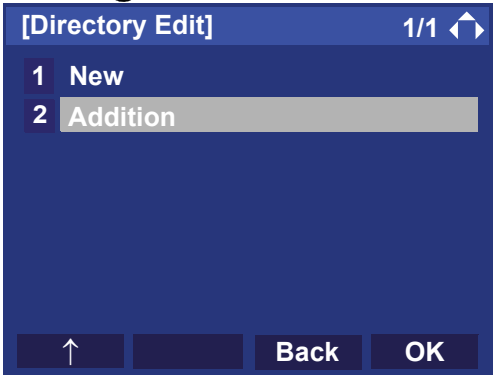
STEP 1: Display call history data of a target telephone number (see TO VIEW CALL HISTORY).
The following is an example when history data of a Missed Calls is displayed.

Press **Help** or **Option** while displaying the call history data for the target telephone number.

STEP 2: The following SubMenu is displayed. Select **2 Directory Add**.
Select an item by one of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 2, and press , or the **OK** key.



STEP 3: Choose **2 Addition**.
Select an item by one of the following operations.
- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 2.



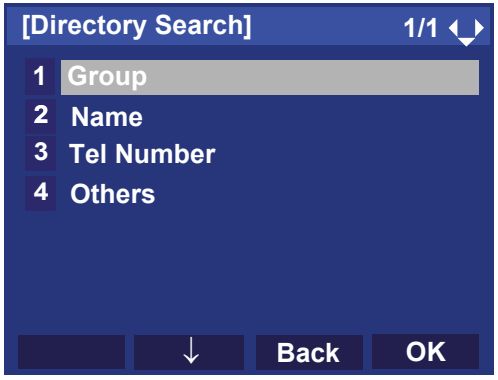
STEP 4: Select a search method.

See TO FIND A REGISTERED DATA for the procedure of the searching method.

In this example, 1 **Group** is selected.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 1.

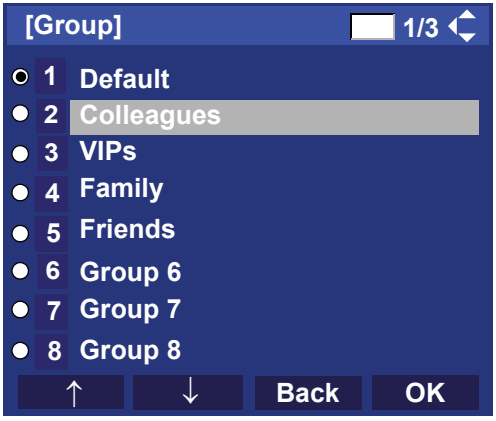


STEP 5: Select a group.

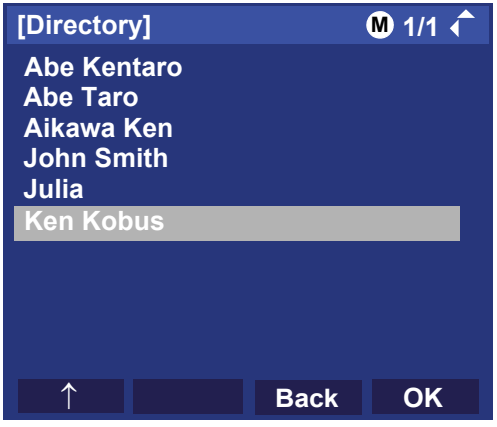
In this example, 2 **Colleagues** is selected.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 2, and press or the **OK** key.



STEP 6: The names belonging to Colleagues are displayed as the following example. Select a name and press or the **OK** key.



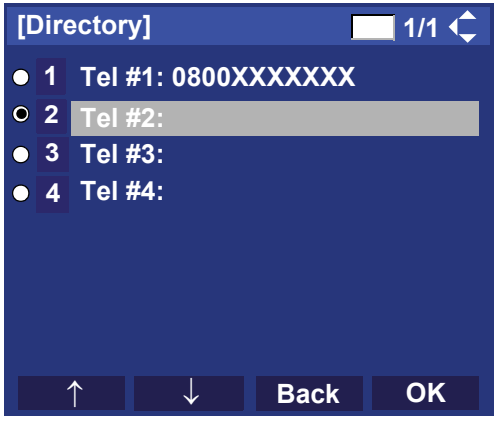
Note: If there is no corresponding data, "No data" will be displayed on LCD.

STEP 7: Select a registration destination. In this example, “7205” will be added to Tel #2.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (1) - (4), and press or the **OK** key.

Note: In this example, a mobile telephone number “0800XXXXXXX” has already been registered to Tel #1. If you select Tel #1 here, “0800XXXXXXX” will be overwritten with “7205”.

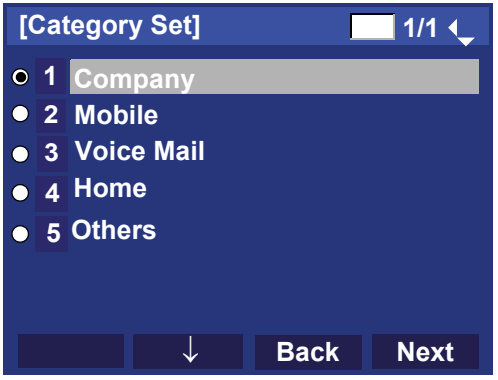


STEP 8: Select a Category to which the telephone number belongs.

In this example, 1 **Company** is selected.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press (1), and press or the **OK** key.

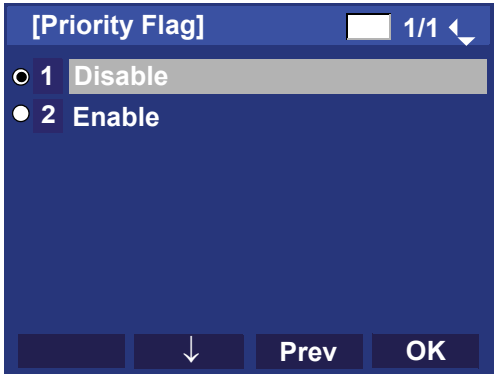


STEP 9: Choose either 1 **Disable** or 2 **Enable**.

A maximum of four telephone numbers can be set to an entry. If 2 **Enable** is chosen here, the telephone number which is being edited will be given top priority. In that case, the telephone number is automatically selected when you make a call without specifying a specific telephone number.

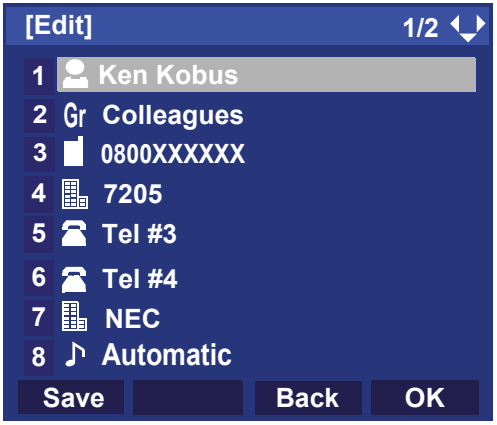
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press or the **OK** key.
- Press 1 or 2, and press or the **OK** key.



STEP 10: The display moves to the **Edit** screen of Directory. “7205” has been registered to Tel #2.

See TO EDIT DIRECTORY DATA in Directory Operation, and edit the data as necessary.



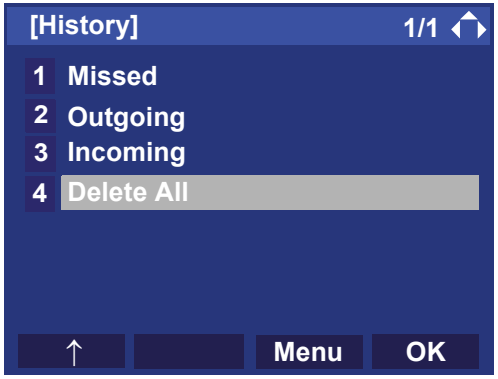
TO DELETE ALL DATA

STEP 1: Display the **Menu** screen, and select **History**.

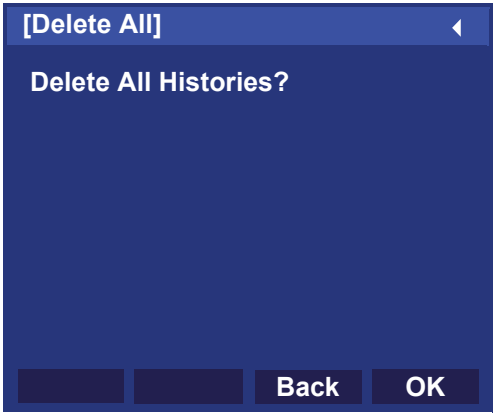
STEP 2: Select 4 **Delete All**.

Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 4.

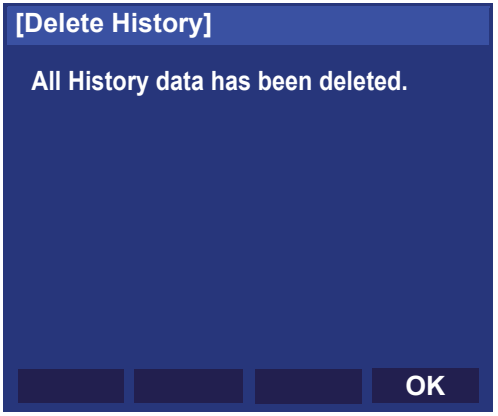


STEP 3: The following confirmation message appears. Press or the **OK** key to delete all the data.



Note: To cancel the data deletion, press or the **Back** soft key.

STEP 4: After all history data is deleted, the display changes as follows. Press or the **OK** key.



TO DELETE SPECIFIC DATA

STEP 1: Display the call history data of the target telephone number referring to TO VIEW CALL HISTORY.

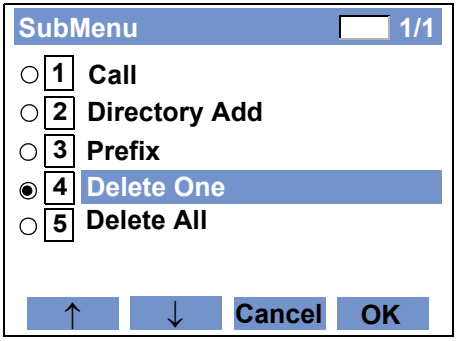
The following is an example when the history data of missed call is displayed.

Press **Help** or **Option** while displaying the call history data for the target telephone number.

STEP 2: The following SubMenu is displayed. Select **4 Delete One**.

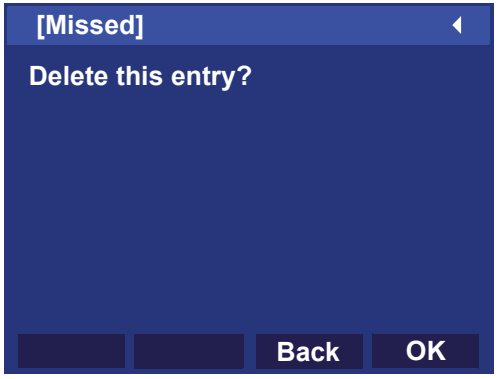
Select an item by one of the following operations.

- Highlight an item by using or the **UP/DOWN** soft key, and press , or the **OK** key.
- Press 4, and press , or the **OK** key.



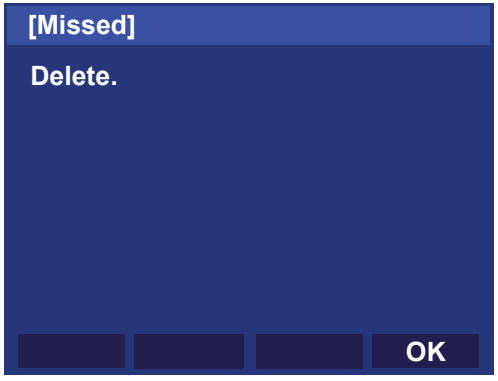
Note: By selecting 5 Delete All, all records of missed call can be deleted.

STEP 3: The following confirmation message appears. Press or the **OK** key to delete the appropriate history data.



Note: To cancel the data deletion, press or the **Back** soft key.

STEP 4: After the appropriate call history data is deleted, the display changes as follows. Press or the **OK** key.



2. CALL HISTORY ON THE SYSTEM SIDE

This feature can store up to 20 records. If exceeding 20 records, a record will be deleted in order of occurrence. Also, this Call History feature can store up to 32 digits of dial number and 16 characters of name information per record.

- TO VIEW CALL HISTORY
- TO MAKE A CALL FROM CALL HISTORY
- TO MAKE A CALL WITH PREFIX
- TO ADD CALL HISTORY DATA TO LOCAL PHONEBOOK

Note: This feature can store the incoming call history only. For the outgoing call history operation, refer to “REDIAL”.

Note: If the system administrator invalidates the Call History, this feature cannot be used. For details, contact the system administrator.

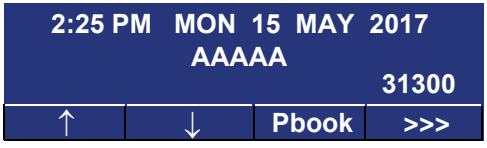
TO VIEW CALL HISTORY

STEP 1: Press **iCall** or **Call History** while the current time is displayed on LCD.

- OR -

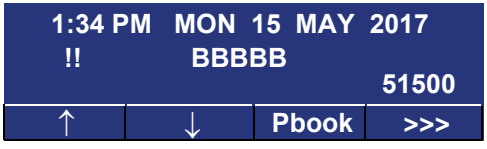
STEP 1: Display the **Menu** screen, and select **History.**

STEP 2: The history data of the last received call is displayed.



Note: If no history data is saved, "NO LIST" will be displayed on LCD.

STEP 3: Press or the **UP/DOWN** soft key to display a desired history data.

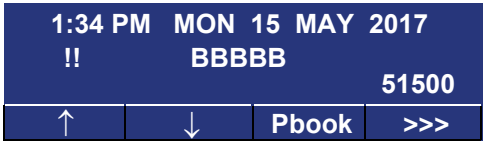


Note: Call History will display "!!" for an unanswered incoming call.

Note: If the calling party information is not notified, Call History will display "----" to the history data.

TO MAKE A CALL FROM CALL HISTORY

STEP 1: Display the history data of the target party.

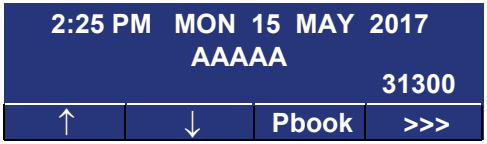


STEP 2: Go off-hook or press Speaker key, , or the **OK** key to make a call to the displayed party.

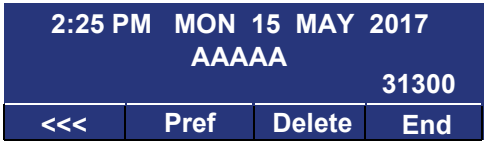
Note: While the history data is displayed, the user cannot make a call by dialing a telephone number.

TO MAKE A CALL WITH PREFIX

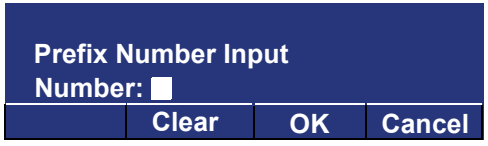
STEP 1: Press **>>>** while the history data to which you want to add a prefix is displayed.



STEP 2: Press **Pref** soft key.



STEP 3: Enter a prefix by using the digit keys. In this example, “012345” is entered. After entering the prefix, press (**Enter**) or the **OK** key.

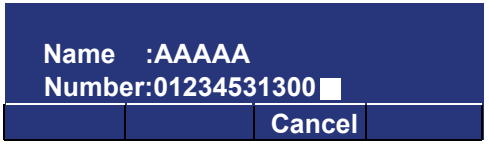


Note: A maximum of 10 digits (0-9, * and #) can be set as a prefix.

Note: When prefix is added, up to 32 digits including the prefix can be sent as dial number.

Note: To delete an entered character, press or the **Clrear**.

STEP 4: If the call history data has name information, the name is displayed as follows:



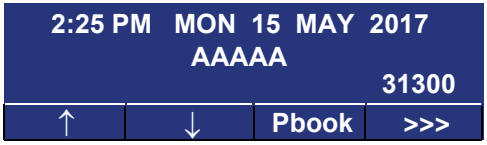
Note: More appears in Phonebook data screen when the number of characters (name) or digits (telephone number) are exceeding displayable limit (Up to 17 characters or digits can be displayed at a time).

If the name or telephone number exceeds the displayable limit, press or More to display the last 17 characters/digits of the name/telephone number.

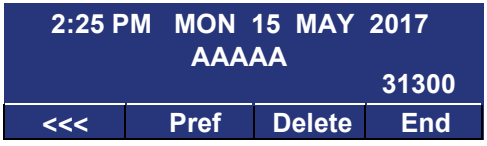
STEP 5: Go off-hook or press Speaker to make a call to the displayed telephone number.

TO DELETE SPECIFIC DATA

STEP 1: Press **>>>** while the history data which you want to delete is displayed.



STEP 2: Press **Delete** soft key.

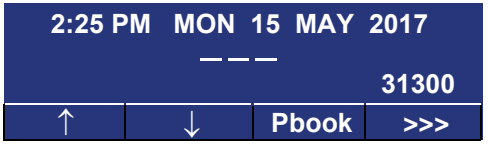


Note: If you want to exit Call History, press **End** soft key.

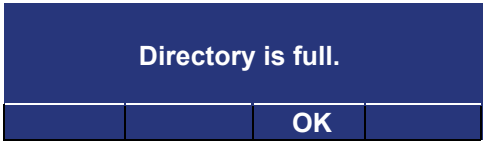
TO ADD CALL HISTORY DATA TO LOCAL PHONEBOOK

Note: The Call History data stored on the system can be added to Phonebook (controlled by the system) only. The data cannot be added to the Personal Directory (described in 6.DIRECTORY OPERATION) controlled by the telephone.

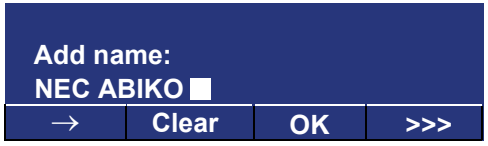
STEP 1: Press **Pbook** soft key or **Phonebook** while the history data of the target party is displayed.



Note: Local Phonebook feature allows the user to register up to 100 records. If exceeding 100 records at this point, the error message shown below appears. Press **OK** to go back to the previous display.



STEP 2: Enter a desired name, and press **OK**.
(In this example, “NEC ABIKO” is entered.)



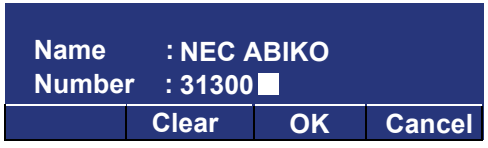
Note: If name information is stored on the call history, the name is displayed.

Note: If “>>>” is pressed on the above screen, the following soft keys appear. Pressing or Eu-s/Eu-l shifts characters between uppercase and lowercase.

(Lower-case character)

(Upper-case character)

STEP 3: The telephone number stored on the call history is displayed. The telephone number can be changed if necessary. Press **OK** to add the displayed data to Local Phonebook.



8. SPECIFICATIONS

TECHNICAL SPECIFICATIONS

The following shows the technical specifications of DT820C Series.

Item	ITY-8LCGX/ITY-32LCG
Display (LCD)	3.5 inch TFT (320 x 240 dot), with back light
Display Color	Color (16,777,216 colors)
Programmable Key	8/32 Keys (**Note1**)
Fixed Feature Key	13 keys (with Menu/4 Cursors/Enter/Hold/Transfer/ Speaker/Recall/Feature/Answer/Mic)
Backlight	Display (lit for 10 seconds when operating)
Soft Key	4 Keys
Local Phonebook (System Feature)	100 records
Call History (System Feature)	Outgoing Call: 20 records (Redial)/5 records (Last Number Redial) Incoming Call: 20 records (Call History)
XML Browser	Available
Hands-free	Standard equipment (Full-duplex), Narrow-band
Headset (Cable)	HW510 (A10)/HW251N (A10)/W710 (APD-80)
LAN Interface	2-port, 10BASE-T/100BASE-TX/1000BASE-T, Full-duplex/Half-duplex, Auto Negotiation /Fixed
Voice CODEC	G.711(μ-law, A-law), G.729a(**Note2**)
IP Address Setting	Sets via DHCP server/Sets Statically
QoS	ToS (IP Precedence, Diffserv)
Supporting standard/protocol for VLAN	Tag VLAN (IEEE802.1Q/p), LLDP-MED, DHCP
Security	IEEE802.1x authentication (EAP-MD5, EAP-TLS), IEEE802.1x authentication support (EAPoL Forwarding) on the PC port via switch at a high hierarchy level, SIP&RTP Encryption, VPN (L2TP/IPsec (IPv4)), HTTPS (File Downloading/Web Programming) (**Note3**, **Note4**)
Power Supply	Center Power Supply = IEEE802.3at Type1

Item	ITY-8LCGX/ITY-32LCG
Power Consumption	When Gigabit Ethernet (1000BASE-T) is disabled: Maximum = 2.7 [W], Minimum (in idle state) = 1.7 [W] When Gigabit Ethernet (1000BASE-T) is enabled: Maximum = 3.6 [W], Minimum (in idle state) = 2.1 [W]
Download	Program(Note5)/Configuration data/Ringing Tone/Music on Hold/Wallpaper
Color	Black
Dimension (W×D×H)	178(W) × 221(D) × 133(H) [mm]
Weight	0.9 kg

Note For details of terminal model, see MODEL LINE UP OF DT820C SERIES.

Note1 The number of programmable keys depends on the terminal license setting or the terminal model.

Note2 If the system to which DT820C is connected cannot recognize DT820C, the system may take it as DT830 Series and may ask you to specify G.722 as Voice CODEC in the system data. In this case, do not specify G.722, because DT820C does not support G.722.

Note3 VPN (L2TP/IPsec (IPv4)) is not supported in China.

Note4 The supported authentication method of Web Programming is TLS1.2 only.

Note5 If the system to which DT820C is connected cannot appropriately recognize DT820C, a function for downloading the program will be unavailable.

MENU LIST

MENU LIST FOR ITY-8LCGX/ITY-32LCG

Menu Item		Description
Menu		Press (Menu) to display the **Menu** screen.
	History	Select this option to view the Call History data. Also, you can add the history data to the directory.
	Directory	Select this option to access the directory feature. There are the following three types of directory features: Personal Phonebook, System Phonebook and Corporate Phonebook. This chapter explains the menu list for Personal Directory feature.
	Service/Rec List	Select this option to display the screen of XML application/Photo Frame application registered in the service URL. If the data of a recorded call is saved in any Service URL are not registered, Rec List is displayed.
	Setting	Select this option to make the user setting.
	Portal	Select this option to display XML application screen registered in the home URL.

Menu List For **History**

Menu Item		Description	Default Value
History			
	1 Missed	Select this option to view the history of missed calls. You can also make a call from this menu.	-
	2 Outgoing	Select this option to view the history of outgoing calls. You can also make a call from this menu.	-
	3 Incoming	Select this option to view the history of incoming calls. You can also make a call from this menu.	-
	4 Delete All	Select this option to delete all the history data.	-

SubMenu

Press **Option** soft key or **Help** key while the history data is displayed.

Menu Item	Description	Default Value
SubMenu		
1 Call	Select this option to make a call to the party currently displayed on the history data.	-
2 Directory Add	Select this option to add the party currently displayed on the history data to the personal directory.	-
1 New	Select this option to add the call history data to the personal directory.	-
Category Set	Select this option to specify the phone number type such as Company, Mobile, Voice Mail, Home or Others.	Company
Priority Flag	Select this option to specify whether to use Enable or Disable.	Disable
Edit	Select this option to edit the directory data.	-
2 Addition	Select this option to edit the personal directory data from a call history.	-
Directory Search	Select this option to search the directory data.	-
Directory	Select this option to register the telephone number to the data searched from the directory.	-
3 Prefix	Select this option to add Prefix to telephone number displayed in the history data.	-
4 Delete One	Select this option to delete the current history data.	-
5 Delete All	Select this option to delete all history data of a specific call type (“missed”, “outgoing” or “incoming”)	-

Menu List For **Directory**

Menu Item	Description	Default Value
Directory	From **Menu** screen, select 2 Directory → 1 Personal.	-
1 Personal	Select this option to view the Directory controlled by the telephone.	
1 Search	Select this option to search the personal directory.	-
1 Group	Select this option to specify a group as a search condition.	-
2 Name	Select this option to enter the target name and perform a search.	-
3 Tel Number	Select this option to enter the target telephone number as a search condition.	-
4 Other	Select this option to perform a search by one of the following conditions.	-
1 Memory ID	Select this option to search by a memory number.	-
2 Category	Select this option to search by a category.	-
3 Company	Select this option to search by a company name.	-
4 Alphabet	Select this option to search by alphabet.	-

Menu Item	Description	Default Value
2 Edit	Select this option to add new data to the personal directory.	-
1 Name	Select this option to enter a name of the target party to be added to the directory.	-
2 Group	Select this option to select a group to which the target party belongs.	Default
3-6 Tel #1-Tel #4	Select this option to enter the telephone number of the target party.	-
Category Set	Select this option to specify phone number type (such as Company, Mobile, Voice Mail, Home or Others).	Company
Priority Flag	Select this option to specify whether to use the priority order for the dialing number when originating a call.	Disable
7 Company Name	Select this option to enter a company name of the current phone terminal.	-
8 Ring Tone	Select a ringer tone type per caller.	Default (follows group settings)
9 Illumination	Select an illumination pattern (color) of the call indication lamp.	Default (follows group settings)
0 Memory ID	Select this option to enter a memory number to be assigned to the target party.	-

Menu Item	Description	Default Value
3 Group Setting	Select this option to change a group name.	-
1 Default	Select a desired group name to be changed.	-
2 Colleagues		
3 VIPs		
4 Family		
5 Friends		
6 Group 6 - 20 Group 20		
1 Name	Select this option to enter a new group name.	-
2 Ring Tone	Select this option to select a ringer tone type per group.	Default (follows terminal settings)
3 Illumination	Select this option to select an illumination pattern (color) of the call indication lamp.	Default (follows terminal settings)
4 Own Number	Select this option to view the number of the current phone terminal.	-
5 Delete All	Select this option to delete all the data registered in the directory.	-
2 System	Select this option to view the Directory controlled by the system.	-
3 Corporate	Select this option to view the Directory controlled by the external XML server.	-

Menu List For **Setting**

Menu Item	Description	Default Value
Setting		
1 User Setting	Select this option to make the user setting of a terminal.	-
1 Incoming Call	Select this option to set up for incoming call.	-
1 Offhook Ring	Select this option to specify whether to use Off-hook ringing. (Disable/Enable)	Enable
2 Headset Ring	Select this option to specify whether to use the ringing of headset. (Disable/Enable)	Disable
3 Ring Tone	Select a ringer tone for External Call and Internal Call. (Automatic/Tone Type 1~14/Music Ring 1~3)	Automatic (Tone Type1)
4 Illumination	Select this option to set the illumination pattern for External Call and Internal Call. (Automatic/Disable/Red/Green/Yellow/Rotation)	Automatic (Red)
2 Talk	Select this option to set up for telephone conversation.	-
1 RTP Alarm	Select this option to specify whether to use RTP alarm. (Automatic/Disable/Enable)	Automatic
2 DTMF Tone	Select this option to specify whether to use DTMF tone. (Automatic/Disable/Enable)	Automatic
3 Key Touch Tone	Select this option to set key touch tone generated when the digit keys are pressed while the telephone is off-hook. (Automatic/Disable/Tone/Voice)	Automatic (Tone)
4 Hold Music	Select a music on hold to be heard by DT820C user. (Default/Download)	Default (Minuet)
5 Prefix	Select this option to register a Prefix number. (Prefix 1~Prefix 3)	-

Menu Item				Description	Default Value
3 Display				Select this option to set up for LCD display.	-
	1 Calender Format			Select this option to set up for calender display format and time display format.	-
		1 Calender Format		Select this option to configure the type of calender display format. (Automatic/Type 1/Type 2/Type 3/Type 4/Type 5)	Automatic (Type 1)
		2 Time Format		Choose between 12-hour and 24-hour clock format.	Automatic (12-hour format)
	2 Local Volume			Specify whether to display the following volume levels: handset receiver volume, speaker volume, ringer tone volume and LCD contrast. (Automatic/Disable/Enable)	Automatic (Enable)
	3 Screen Saver			Select this option to set up Screen Saver related data.	-
		1 Screen Saver Mode		Select this option to specify whether to use Screen Saver. (Disable/Enable)	Enable
		2 Wait Time		Select this option to specify the Wait Time to launch Screen Saver (1-999 min)	30 min
	4 Back Light			Select this option to set the brightness of the backlight. 1. Level 1 (Bright) ~ 4. Level 4 (Dark)	Level 2
	5 Font Size			Select this option to change the font size displayed on the LCD. (Standard (16 dots)/Small (12 dots))	Standard
		1 Standard			
		2 Small			

Menu Item	Description	Default Value
6 Language	Select this option to specify the language to be displayed on LCD. ◉0 Automatic ○1 日本語 ○2 NEC English ○3 NEC Português ○4 NEC Español ○5 NEC Français ○6 Deutsch ○7 ITALIANO ○8 Nederlands ○9 Norsk ○10 Dansk ○11 Svensk ○12 Ελληνικά ○13 English ○14 Português ○15 Español ○16 Français ○17 Русский ○18 Türk ○19 Azərbaycanca ○20 Român ○21 Polski ○22 Català ○23 한국어	Automatic

Menu Item	Description	Default Value
7 Advanced	Sets other data for display.	-
1 Wallpaper	Select this option to specify the Home screen background. (Default/Download)	default
2 Font Color	Select this option to specify the font color for the Time Display/Feature Information Display area. * You can check the color by selecting each color number. (Color 1 ~ Color 16)	Color 16
3 Turn Off Display	Select this option to specify the data when turning off the display automatically.	-
4 Backlight Fade Control	Sets whether Backlight Fade Control is in service, when turning on/off the backlight of the display. (Disable/Enable)	Enable
5 Home Frame	Select this option to specify the frame display on the Home screen. (Disable/Enable)	Enable
4 Change Password	Select this option to change the password to lock/unlock the telephone.	0000
5 Usability	Select this option to set the operation of Help key while pop-up window is displayed.	-
1 Help Key Mode	Select this option to set up Help Key Mode (SubMenu/ Popup Window)	SubMenu
0 Setting Reset	Select this option to reset the telephone settings.	-

Menu Item	Description	Default Value
2 Download	Select this option to set up the file downloading.	-
1 Download Files	Select this option to download the files for music on hold, ringer tone.	-
1 Hold Music	Select this option to download a file for music on hold.	MOH.wav
2 Ring Tone	Select this option to download files for ringer tones.	-
1 Music Ring 1	Select this option to download files for ringer tone (Music Ring 1).	Melody 1
2 Music Ring 2	Select this option to download files for ringer tone (Music Ring 2).	Melody 2
3 Music Ring 3	Select this option to download files for ringer tone (Music Ring 3).	Melody 3
3 Directory	Select this option to download the directory files.	Directory.csv
4 Wallpaper	Select this option to download a file for Wallpaper.	WallPaper.bmp
2 Download Address	Select this option to enter an IP address/URI of the FTP/ TFTP/HTTPS server.	0.0.0.0
3 Protocol	Select this option to select a protocol of the server.	FTP
1 FTP	Select this option to select FTP for the download server.	
2 TFTP	Select this option to select TFTP for the download server.	
3 HTTPS	Select this option to select HTTPS for the download server.	
4 Account Settings	Select this option to set necessary data.	-
1 User ID	Select this option to enter a user ID for downloading.	-
2 Password	Select this option to enter a password for downloading.	-
3 Folder	Select this option to specify the directory where the download file is stored.	-

Menu Item	Description	Default Value
3 Data Backup/Restore	Select this option to set the data required for the file backup/restore.	-
1 Data Backup	Select this option to select this option to specify the file name to be backed up.	PersonalData.tgz
2 Data Restore	Select this option to specify the file name to be restored.	PersonalData.tgz
3 Server Address	Select this option to enter an IP address/URI of the FTP/TFTP/HTTPS server.	0.0.0.0
4 Protocol	Select this option to select a protocol of the server.	FTP
1 FTP	Select this option to select FTP for the download server.	
2 TFTP	Select this option to select TFTP for the download server.	
3 HTTPS	Select this option to select HTTPS for the download server.	
5 Account Settings	Select this option to set necessary data.	-
1 User ID	Select this option to enter a user ID for the data backup.	-
2 Password	Select this option to enter a password for data backup.	-
3 Folder	Select this option to specify the destination directory.	-

WEB PROGRAMMING

OUTLINE

Web Programming allows you to configure the terminal settings of the terminal from the PC. An Internet browser (Internet Explorer, etc.) is used to access Web Programming. It is not necessary to install any special application software onto the PC.

Note: The terminal and Web Programming PC needs to be connected to the same network. When downloading the files for Music on Hold and Ringer Tone to the terminal, FTP/TFTP/HTTPS server is required on the network. For details on the download service, contact the system administrator.

Note: Terminal settings through the Web Programming is available while the DT820C Series logs in to the system.

PC Requirements For Web Programming

Items	Operating Conditions
Operating System	Microsoft® Windows® 8.1/Windows® 10
CPU	Comply with conditions for use of Microsoft® Windows or Microsoft® Internet Explorer.
Memory	
Browser	Microsoft® Internet Explorer 11.0 or later
Monitor	SVGA (minimum: 800 × 600 pixel, recommended: 1024 × 768 pixel)
Others	Mouse, LAN connection port (RJ-45)

TO LOG IN

Follow the steps below to open the Web Programming.

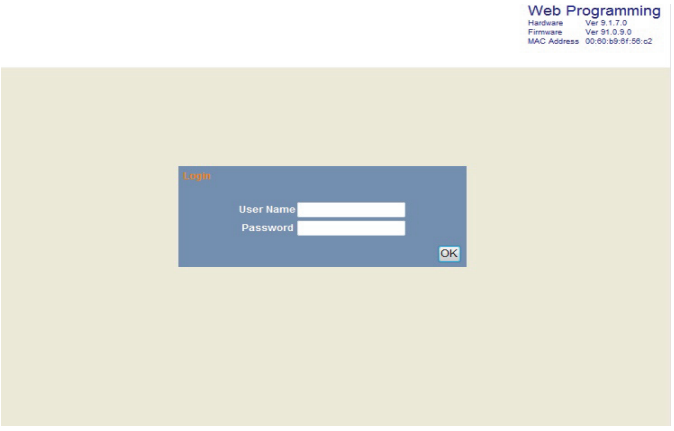
STEP 1: Start up Internet browser on the PC.

STEP 2: Enter IP address of the target terminal on the address toolbar and then press Enter key.

Note: When you log in to the Web Programming using HTTPS protocol, enter “https://” before IP address. Then, a warning message displays on the browser though, the message has no problem. Select “Continue”.

Note: To ensure secure access to the Web Programming application, DT820C allows access to Web Programming application only via TLS 1.2 protocol when using HTTPS access. Make sure that the TLS 1.2 protocol is enabled on Internet browser settings.

STEP 3: The Web Programming Login screen appears. Enter a user name (type “USER”) and a password, then click **OK**.

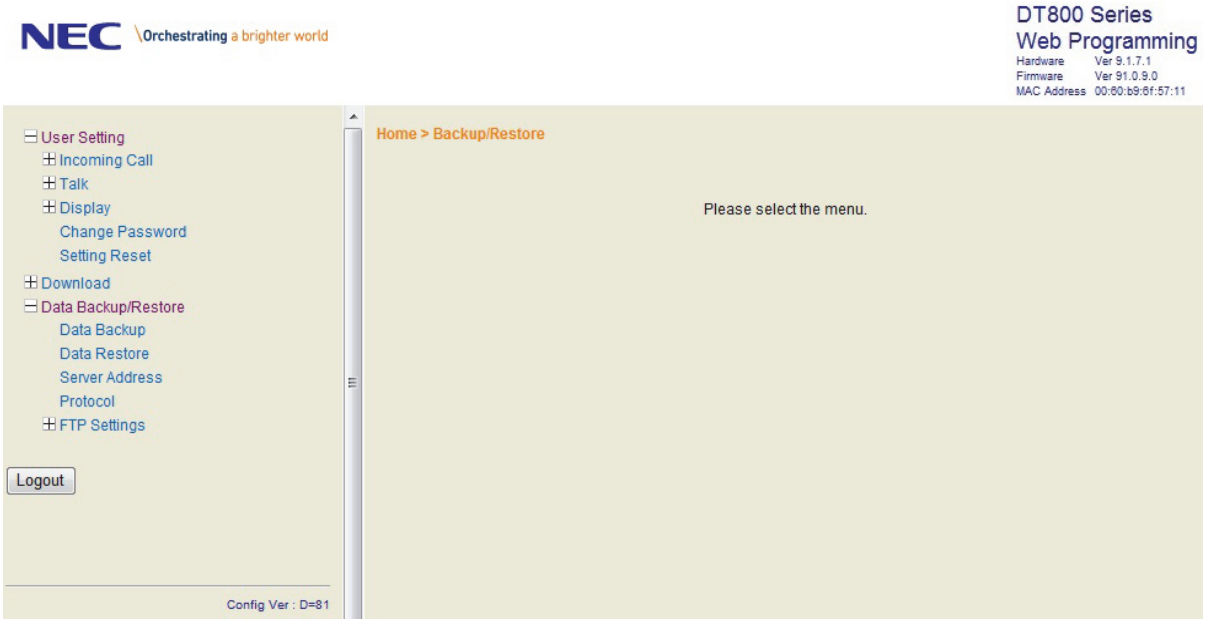


Note: Enter the password you assigned on the procedure “TO CHANGE PASSWORD”. “0000” is used as password by the default setting.

Note: For IP address of the terminal, contact the system administrator.

Note: When the login screen does not appear, check the LAN connection status and entered IP address. If the problem persists, please contact the system administrator.

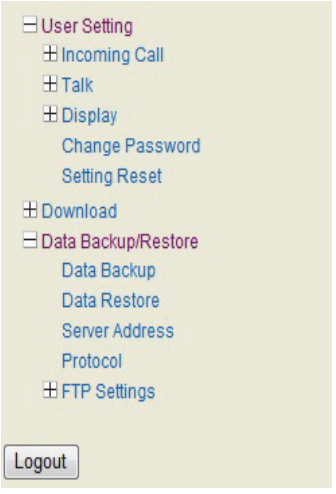
STEP 4: The following Web Programming **Home** screen appears.



TO LOG OUT

Follow the steps below to exit the Web Programming.

STEP 1: Click **Logout** at the lower left of the screen.



STEP 2: The confirmation message appears. Click **OK** to log out of Web Programming.

STEP 3: The display changes as follows. Click **Back**.

STEP 4: After the Web Programming Login screen is displayed, close the Internet browser.

Note: Make sure to perform the logout operation after the data setting of the telephone.

Note: When 10 minutes have passed leaving the PC without operation after log in to Web Programming, you are forcibly logged out from the Web Programming.

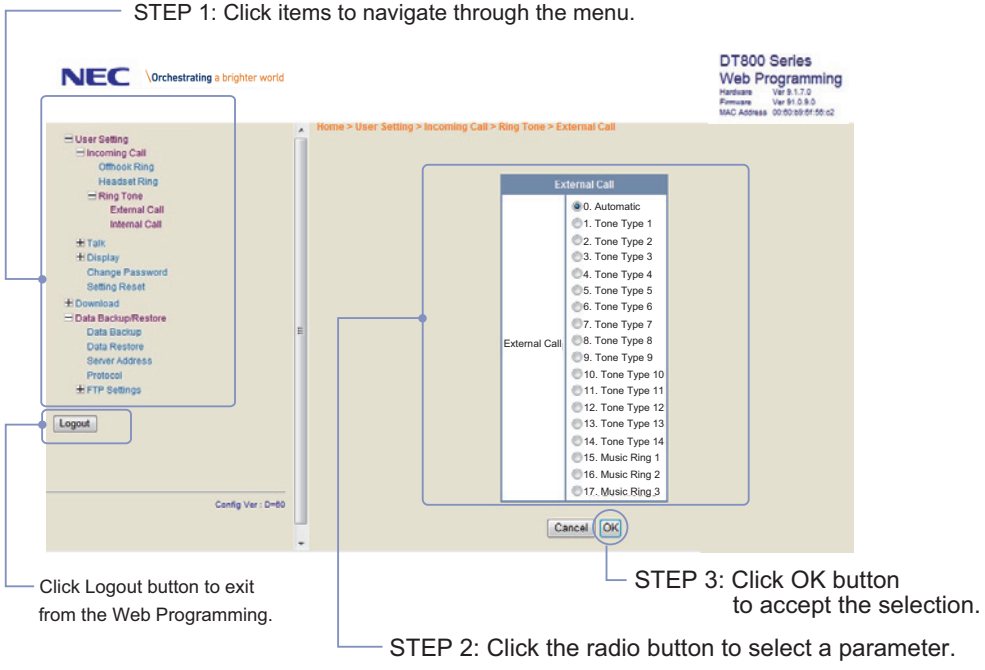
HOW TO OPERATE

As an example of setting method on the Web Programming, the following explains how to change the ringer tone for external call. Web Programming includes the same menu configuration as “Setting” of the terminal. For details on each menu item, see MENU LIST.

STEP 1: From the **Home** screen, click **User Setting** → **Incoming Call** → **Ring Tone** → **External Call**.

STEP 2: Select a desired tone type by clicking the corresponding radio button.

STEP 3: Click **OK** to save the change to the database.



STEP 4: A confirmation dialog appears. Click **OK** on the dialog.

APPENDIX A PHOTO FRAME APPLICATION

The Photo Frame application allows the LCD to display image files from XML server.

Note: For details of how to use the Photo Frame application through XML server, contact the system administrator.

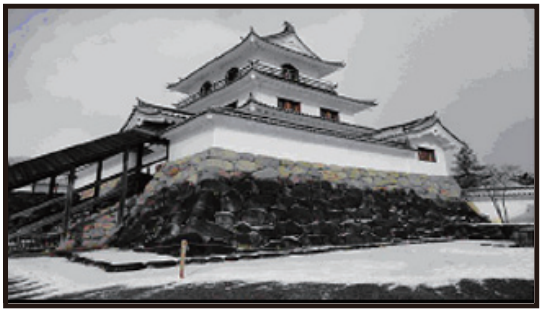
Note: To use the Photo Frame application, configuration setting by system administrator is required. For details, contact the system administrator.

Note: The supported image files are JPEG, BMP, GIF and PNG.

DISPLAY SAMPLE AND KEY OPERATIONS

Following shows the display sample and key operations for Photo Frame application.

[Example of full screen display]



Note: When the size of an image file to be displayed is larger than the screen size of the LCD (320 x 240), the image file is partially displayed from the upper-left corner of the LCD.

Note: By the aspect ratio of an image file, some portions of the image file may be displayed in black color. Also, when the size of the image file to be displayed is smaller than the size of the LCD, the relative position of the image file will be displayed in black color.

- **How to Launch the Photo Frame Application**

STEP 1: Press **Menu** to display the **Menu** screen, and select **Service**.

Select an item by one of the following operations.

- Highlight an item by using cursor key, and press , or the **OK** key.
- Press (3).

Note: When two or more Service URLs are registered, Service screen appears.

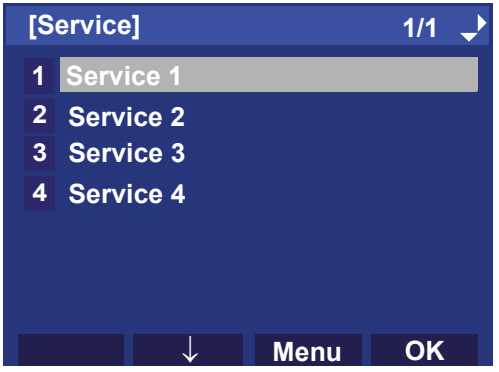
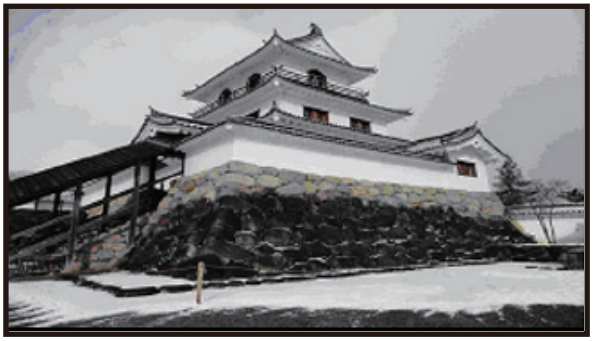


Photo Frame application has been launched.



APPENDIX B CALL RECORDING

SAVING RECORDING CALL DATA TO THE RECORDING SERVER

You can save voice call data to Recording Server. When a call is being recorded or when a recording error occurs, the status is indicated as an icon on the LCD of the terminal. If Record key is assigned on a Programmable Feature Key, LED of the key indicates the status of call recording. When a recording starts, the recording confirmation tone (a tone to indicate while the terminal is in a recording state) will be sent to the target party at an interval of 15 seconds. However, the recording confirmation tone can be disabled.

Note: This feature and the followings are set at installation. For details, contact the system administrator:
- displaying call recording icon
- playing recording confirmation tone

- **STATUS ICONS AND LED DISPLAY**

  The status icons that are displayed on the LCD while the call recording is executed and the LED status are explained below.

Note: When call recording becomes disabled because of the server error, the call recording icon and the warning icon are indicated alternatively per second.

Recording Status	Icon	LED Status
Call recording is stopped		Turned off
Call recording is started		Steady Red
Call recording is in standby		Steady Green
Call recording is disabled for server error	Alternately displayed per second.	Flashing Orange (250ms cycle)

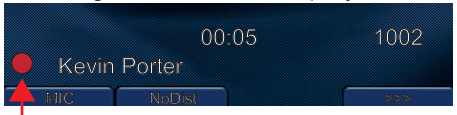
Note: The configuration to display recording status icon is set at installation. For details, contact the system administrator.

- **TO RECORD A CALL MANUALLY**

  Here explains the procedure for recording a call manually. Call recording is started by pressing a Line/Feature key where Call Recording feature is assigned. This Line/Feature key is called the Record key.

Note: The Record key is assigned at installation. For details, contact the system administrator.

STEP 1: Press the **Record** key before starting a call or while talking on the terminal. Then, call recording status icon is displayed on the LCD.



Recording Status Icon

Note: When the **Record** key is pressed before starting a call, “Call recording is in standby” icon is displayed.

Note: When you press the **Record** key while the call is being recorded, the call recording is suspended and the call recording status changes to standby mode. To resume the call recording, press the **Record** key again.

Note: When the call recording starts, the recording confirmation tone will be sent to the target party at an interval of 15 seconds. Please note that this setting can only be set up in the Administrator access level.

STEP 2: When the conversation finished by going on-hook, the call recording is also finished.

- **TO RECORD A CALL AUTOMATICALLY**

  When automatic call recording is set, call recording starts when a user goes off-hook or presses the Speaker key. Going on-hook or pressing the Speaker key again ends call recording. In this way, a whole conversation can be recorded.

Note: The automatic call recording is set at installation. For details, contact the system administrator.

Note: The range of recording voice data depends on the setting of installation. For details, contact the system administrator. The followings are the range of call recording to be set:
- voice call
- voice call and call progressive tone (tones from a telephone)

APPENDIX C HEADSET OPERATION

The table below shows supported headsets and headset cables for the terminal.

Headset		Supported Cable
Wired Headset	HW510/HW251N	A10
Wireless Headset	W710	APD-80

ATTACHING THE HEADSET

Note: The **Headset** key must be programmed in advance. For the programming of the **Headset** key, contact the system administrator.

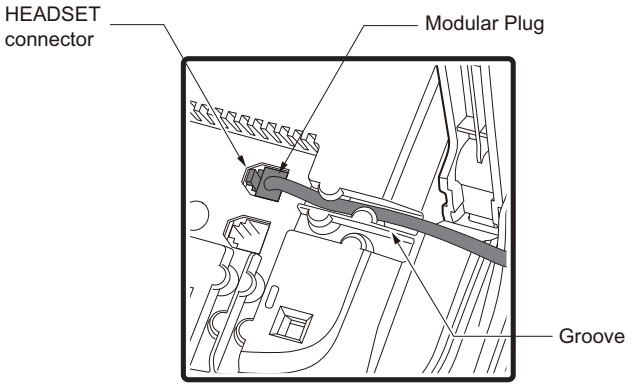
Connect the headset cable to HEADSET connector on the back of the telephone following the procedure below.

Note: The headsets which can be connected to the telephone are wired headset "HW510 (A10)/ HW251N (A10)".

To Connect the Headset

STEP 1: Insert the modular plug into the HEADSET connector on the back of the telephone until it clicks.

STEP 2: Place the headset cord into the groove as shown in the figure below, and fix it.



TERMINAL OPERATION USING THE HEADSET

The following procedure explains how to operate a terminal using the headset. While using the headset, the operations equivalent to answering and ending a phone call are available by pressing the **Headset** key.

Note: The **Headset** key must be programmed in advance. For the programming of the **Headset** key, contact the system administrator.

To Originate a Call

STEP 1: Press the **Headset** key, and the **Headset** key lights red.

STEP 2: A Line key lights green and dial tone is received.

STEP 3: Dial a desired telephone number, after the target party answers the call, you can start a conversation.

STEP 4: Press the **Headset** key to end the call, and the **Headset** key turns off.

Note: To switch to handset mode, lift the handset and press the **Headset** key during a conversation

To Answer a Call

STEP 1: Press the **Headset** key while the ringing tone is on, and the **Headset** key lights red.

STEP 2: Press the flashing line key to start a conversation with another line. Depending on the settings at the installation phase, you can answer the call by pressing the **Answer** key instead of the line key.

STEP 3: Press the **Headset** key to end the call, and the **Headset** key turns off.

Note: To switch to headset mode, press the **Headset** key during a conversation.

ADJUSTING HEADSET RINGER TONE VOLUME

You can adjust the ringer tone volume for a headset in an idle or a busy state.

Note: To pass a ringer tone through the headset, enable “Headset Ring” from the **Settings** of the **Menu** screen. For the details, refer to "Menu List For Setting".

Note: A ringer tone volume can be adjusted only for a wired headset connected to the terminal headset connector.

Note: A ringer tone volume in a busy state cannot be changed when the ringer tone is set to come from both the speaker and the headset. For details, contact the system administrator.

To Adjust the Ringer Tone Volume in Idle Status

STEP 1: Press the **Headset** key while in an idle state to switch from headset mode to handset mode, and the **Headset** key lamp turns off.

STEP 2: Receives a call from another line.

STEP 3: Press the **UP/DOWN** ( ) key while a ringer tone is on.

For Ringer Tone Volume in Busy Status

If other lines are accommodated in the telephone as a subline, the ring tone volume of a subline call received while being in the middle of a call through the headset will be lower than usual.

Note: When you receive another call during a call through the headset, the ringer tone volume for other lines in headset mode can be set to the same level as the normal two-way call. For details, contact the system administrator.

HOW TO USE THE WIRELESS HEADSET

When using Wireless Headset (W710 (APD-80)), you can answer a call, conduct a conversation, or disconnect the call with hooking operations. This section explains about the terminal operation using Wireless Headset.

Note: The **Headset** button of Wireless Headset must be programmed in advance. For the programming of **Headset** button, contact the system administrator.

Note: For details on how to connect a telephone and Wireless Headset, see the manual attached to the Wireless Headset.

To Answer a Call

STEP 1: Press the **Call Control** button of the Wireless Headset while the ringing tone is on, and the **Headset** button lights red. Depending on the installation phase, you can answer the call by pressing Answer key or **Headset** button instead of **Call Control** button.

STEP 2: Press **Call Control** button to end the call, and the **Headset** button turns off.

Note: When a party hangs up on the end of the call, the Wireless Headset user may hear signal tones. However, it does not affect the operation for the devices.