



NEC

UNIVERGE[®] SV9100

DT820
USER GUIDE

NDA-31729
ISSUE 3.0

NEC Enterprise Communication Technologies, Inc. reserves the right to change the specifications, functions, or features at any time without notice.

NEC Enterprise Communication Technologies, Inc. has prepared this document for use by its employees and customers. The information contained herein is the property of **NEC Enterprise Communication Technologies, Inc.** and shall not be reproduced without prior written approval of **NEC Enterprise Communication Technologies, Inc.**

D^{term}, NEAX and UNIVERGE are registered trademarks of NEC Corporation. Windows is a registered trademark of Microsoft Corporation.

Copyright 2018

**NEC Enterprise Communication Technologies, Inc.
3929 W. John Carpenter Freeway
Irving, TX 75063-9406**

Communications Technology Group

TABLE OF CONTENTS

1. INTRODUCTION

General	1
Face Layout	2
Technical Specifications	4
Keys And Parts	6
Menu List	15
Simple Operation by Menu Key and Cursor Key	15
Shortcut Menu	18
Soft Keys.....	19
Multi-Window	21
Pop-up Windows.....	28

2. TERMINAL SETUP

Setup With Up/Down Key	31
Setup With Feature Key.....	31
Setup with Menu Key	32

3. BASIC OPERATION

Login	85
Logout.....	85

4. FEATURE OPERATION

Answering Calls	87
Placing Calls	88
Microphone Control.....	91
Speakerphone Calls.....	91
Group Listen	91

TABLE OF CONTENTS

Holding Calls.....	92
Transferring Calls.....	92
Conference	93
Call Park – System	93
Station Busy/No Answer Options.....	94
CO/PBX Dialing Options	97
Call Pickup.....	100
Paging.....	101
Background Music	103
Call Forwarding.....	103
Selectable Display Messaging	105
Station Relocation.....	106
Code Restriction, Dial Block	106
Account Code Entry	107
Automatic Call Distribution (ACD).....	108
 5. DIRECTORY OPERATION	
Add New Data.....	118
Find Registered Data	119
Make a Call From Directory	120
Delete All Directory Data.....	120
Delete Specific Directory Data	121
 6. CALL HISTORY OPERATION	
View Call History.....	124
Make a Call From Call History	124
Store Call History Data to Speed Dial.....	125
Delete Call History Data.....	125

1. INTRODUCTION

General

This guide explains how to operate DT Series (DT820) under the following headings.

CHAPTER 1 INTRODUCTION

Explains the configuration of this guide and contains the following information.

- Face layout of DT Series
- Keys and Parts of DT Series
- Icon Display
- Menu List

CHAPTER 2 TERMINAL SETUP

Explains the operating procedures for terminal settings of the DT Series.

CHAPTER 3 BASIC OPERATION

Explains the basic operation of DT Series.

CHAPTER 4 FEATURE OPERATION

Explains operating procedures for various Telephony Server features.

CHAPTER 5 DIRECTORY OPERATION

Explains operating procedures for Directory function.

CHAPTER 6 CALL HISTORY OPERATION

Explains operating procedures for Call History.



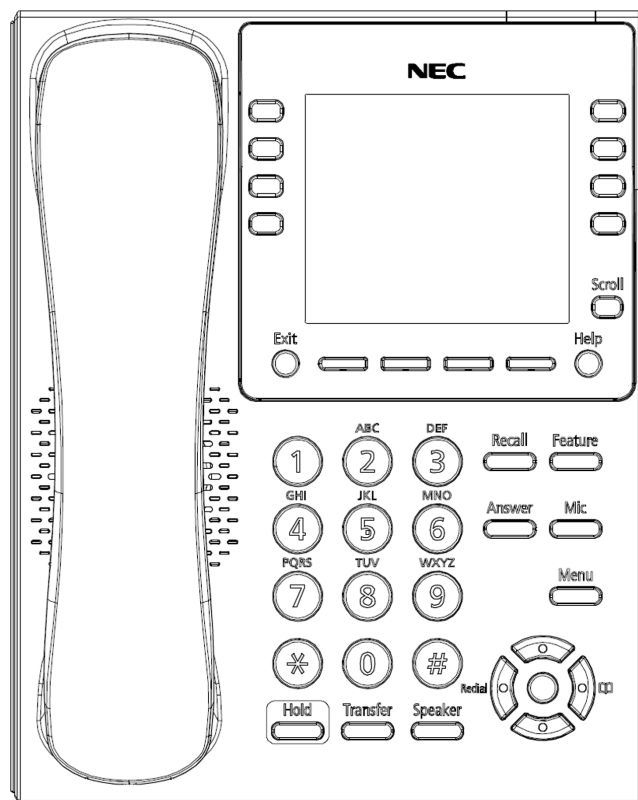
DT820 Terminals

Face Layout

ITY-6D-1 (6-Button with LCD)

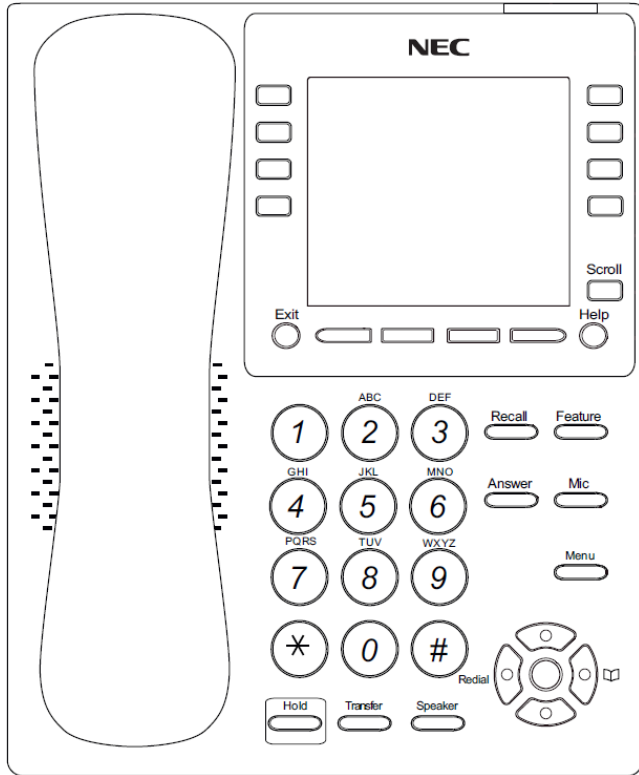


ITY-8LDX-1 (Self-Labeling 8-Button)



Note: *Not all terminal models are available in all regions.*

ITY-8LCGX-1 (Color Self-Labeling 8-Button)



Technical Specifications

Hardware

Item	ITY-6D-1	ITY-8LDX-1	ITY-8LCGX-1
Display LCD Type	Monochrome (STN)	Monochrome (STN)	Color (TFT)
Resolution	168 x 41 dot	168 x 128 dot	320 x 240 dot
Size (mm)	3.5 inch 93.5 (W) x 37.7 (H)	4 inch 81.0 (W) x 78.0 (H)	3.5 inch 76.9 (W) x 63.9 (H)
LCD Backlight	White color		
Incoming Lamp	3 colors (Red, Green, Yellow)		
Programmable Key	6 keys with LED (Red, Green)	8 keys with LED (Red, Green)	
Fixed Feature Key	10 keys (including Menu and Cursor)		
Scroll Key	–	1 key	
Soft Key	6 keys (Exit, Help and 4 keys)		
Handset	Narrowband, supporting HAC		
Hands Free	Full Duplex (Narrowband)		
Headset (Wired)	Recommended model: SUPRAPLUS HW251N (Plantronics)		
Headset (Wireless)	APD-80 cable Recommended model: SAVI W710 (Plantronics)		
External Interface	LAN Connector: 2 ports, Handset Modular: 1 port, Headset Modular: 1 port		
Power Supply	PoE: IEEE802.3at Type1		
Power Consumption	IEEE802.3at Type1 Class1 (Less then 3.84W)		
LAN I/F	10Base-T (IEEE802.3i) 100Base-TX (IEEE802.3u) 1000Base-T (IEEE802.3ab) Note: 1000Base-T is the optional license		10Base-T (IEEE802.3i) 100Base-TX (IEEE802.3u) 1000Base-T (IEEE802.3ab)
USB I/F	–		
Bottom Option	–		
Side Option	–		
Tilt Angle	2 Steps		

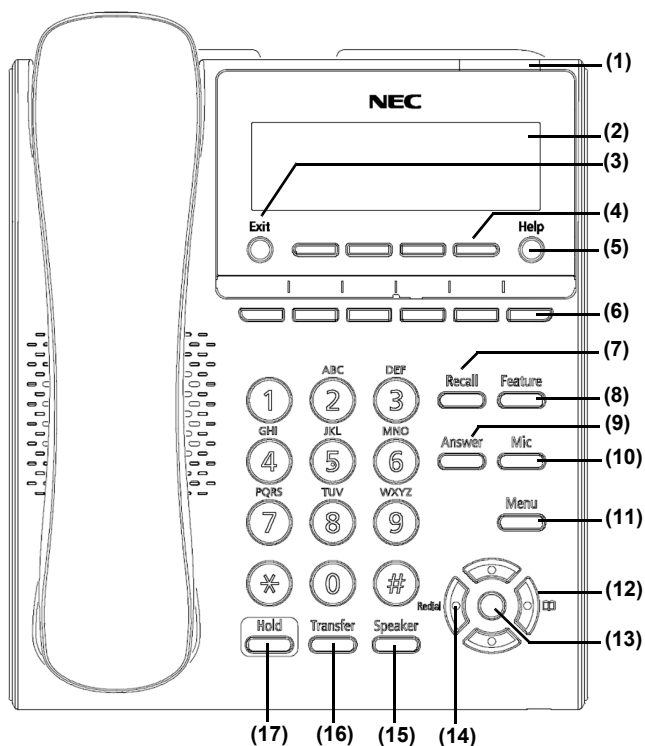
Item	ITY-6D-1	ITY-8LDX-1	ITY-8LCGX-1
AC Adapter	No		
Dimension (mm)	178 x 215 x 133	178 x 221 x 133	178 x 221 x 133
Weight (kg)	0.8	0.9	1.0

Software

Item	ITY-6D-1	ITY-8LDX-1	ITY-8LCGX-1
Local Directly	–		500 Records
Local Call History	–		Outgoing Call: 50 Records Incoming Call: 50 records
Voice CODEC	Narrowband–3.1kHz audio bandwidth: G.711(u-law, A-law), G.729a		
IP Address Setting	DHCP (RFC-2131 compatible), DHCP (Vendor Extensions) (RFC-2132 compatible)		
QoS	ToS (IP Precedence, Diffserv)		
Status Icon	–		Missed Call, Voice Mail, Security Mode, RTP Encryption, Ecology Mode, Call Recording, Headset Ring, Cursor
VLAN	Tag VLAN (IEEE802.1Q/p)		
Security	IEEE802.1x authentication (EAP-MDS, EAP-TLS, EAPOL Forwarding), SIP & RTP Encryption		
NAT	Static NAT		
VPN	L2TP/IPSec (IPv4)		
Download Protocol	ftp, tftp, https		
XML	Contents, Popup, Push, RTP Streaming		

Keys And Parts

ITY-6D-1 (6-Button with LCD)



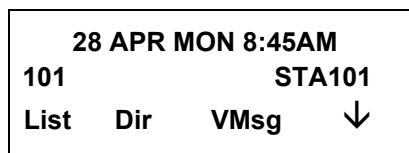
(1) Call Indicator Lamp

On the SV9100, this lamp flashes fast when a call terminates to the terminal and flashes slower when a message has been left.

(2) LCD (Note 1)

LCD (Liquid Crystal Display) provides DT Series activity information plus data, time and Softkey Operation.

The LCD on the ITY-6D-1 has a 28-character, 3-line capability.



(3) Exit

The user can exit from a screen mode by pressing this key.

(4) Softkeys

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.

(5) Help

The user can press this key followed by a programmable key to check what Line or Programmable Feature is programmed on the key.

(6) Programmable Keys

These keys can be programmed as Flexible Line key/Programmable Feature Key by the Telephony Server Administrator. For the SV9100, the programmable keys can be set by WebPro/PCPro/Handset Pro and the user can also set them.

(7) Recall

Press key to finish an outside call and hear the dial tone. With Centrex trunks press the recall key to hook flash the line.

(8) Feature

Used to activate any features as terminal setup functions.

(9) Answer

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

(10) Mic

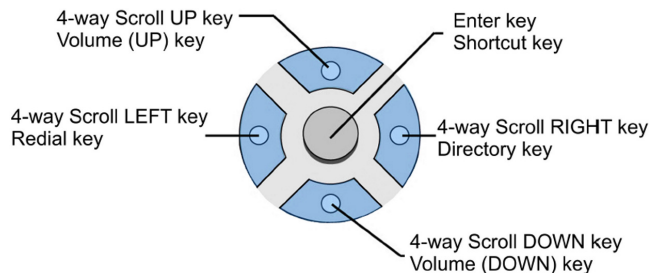
Press the key to Mute/Un-Mute the speaker and/or handset.

(11) Menu

From this key, the user can access to the functions not normally used (such as terminal settings, downloads and access to XML applications) easily.

(12) Cursor

By using this Key, DT Series user can access various features with simple operation.



Two lines of menu items can be displayed at a time. Use "Up" or "Down" key to scroll to the item.

Menu of ITY-6D-1



(13) Enter

Note: *ITY-6D-1 does not support the Shortcut Menu.*

(14) Redial/CID Scroll

(Last Number Call, Speed Calling-Station/Group)

Press key once to activate redial feature. Press redial and scroll through numbers that have been dialed.

When the desired number is displayed, press the # key to activate dialing.

Press key twice to activate the CID scroll feature. Press key twice and scroll through numbers that have been received.

When the desired number is displayed go off hook to activate dialing.

(15) Speaker

Controls the built-in speaker which can be used for Hands Free dialing/monitoring.
LED on key lights when key is active.
DT820 supports half/full duplex handsfree.

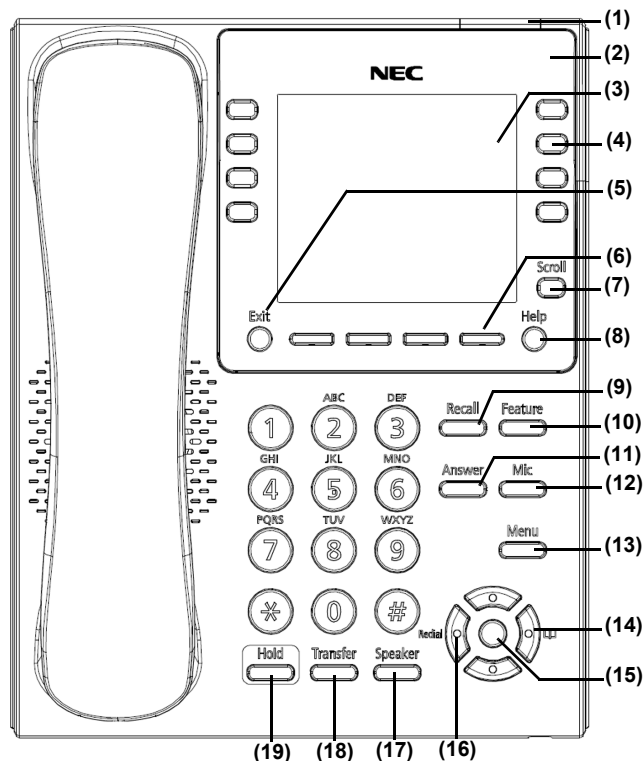
(16) Transfer

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

(17) Hold

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

**ITY-8LDX-1
(Self-Labeling 8-Button with LCD)**



(1) Call Indicator Lamp

On the SV9100, this lamp flashes fast when a call terminates to the terminal and flashes slower when a message has been left.

(2) ITY-8LDX-1 Display



32 (8 keys x 4 pages) additional programmable keys are provided. They can be programmed as Flexible Line/Programmable feature key by Telephony Server Administrator. For the SV9100, the programmable keys can be set by WebPro/PCPro/Handset Pro and the user can also set them.

Note: *Maximum 11 characters (including icon)*
Maximum 13 characters (excluding icon)

(a) Icon

Status of the Line key such as Call Ringing, Call Hold or Busy, and setting on the Feature key are shown as Icons.

User's Status	Icon	Flashing Pattern
<ul style="list-style-type: none"> Idle 		
<ul style="list-style-type: none"> I-HOLD 		Blink Note
<ul style="list-style-type: none"> Others Hold 		Blink Note
<ul style="list-style-type: none"> Recall 		Blink Note
<ul style="list-style-type: none"> Incoming Ringing 		Blink Note
<ul style="list-style-type: none"> During Conversation (Individual Use) Call Transfer Conference 		
<ul style="list-style-type: none"> During Conversation (Other Party Use) Active Feature (Under a setting of feature key like a "Call Forwarding") 		
<ul style="list-style-type: none"> Others 		Steady Lit
<ul style="list-style-type: none"> Key is busy (example, if programmed as a virtual extension and the virtual extension is busy). 		Steady Lit

(b) Feature Key Information

Feature Key Information displays the followings.

Key	Description	Maximum digits to be displayed
Line Key	- Name and Number information	Refer to note*
Feature Key	- Feature Name	Refer to note*
One-Touch Speed Dial Key	- Speed Dial Name Information - Number Information	Refer to note*

Note: *Maximum 11 characters (including icon)*
Maximum 13 characters (excluding icon)

(3) LCD (Note 1)

LCD (Liquid Crystal Display) provides DT Series activity information plus data, time and Softkey Operation.

The LCD on the ITY-8LDX-1 has a 28-character, 3-line capability.

28 APR MON 8:45AM			
101		STA101	
List	Dir	VMsg	↓

(4) Programmable Keys

These keys can be programmed as Flexible Line key/Programmable Feature Key by Web/PCPro.

(5) Exit

The user can exit from a screen mode by pressing this key.

(6) Softkeys

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.

(7) Scroll Key

This key is used to turn over the page of 8LD display.

(8) Help

The user can press this key followed by a programmable key to Check what Line or Programmable Feature is programmed on the key.

(9) Recall

Press key to finish an outside call and hear the dial tone. With Centrex trunks press the recall key to hook flash the line.

(10) Feature

Used to activate any features as terminal setup functions.

(11) Answer

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

(12) Mic

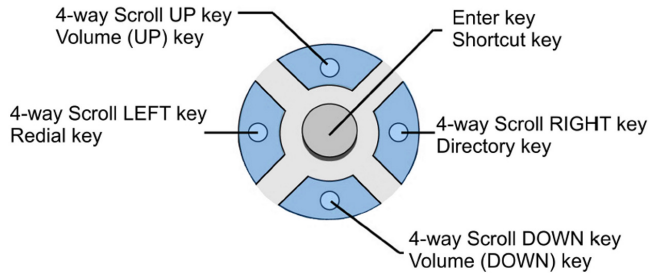
Press the key to Mute/Un-Mute the speaker and/or handset.

(13) Menu

From this key, the user can access to the functions not normally used (such as terminal settings, downloads and access to XML applications) easily.

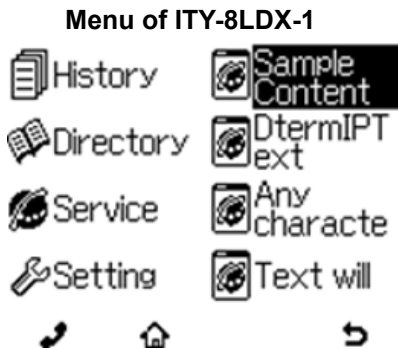
(14) Cursor

By using this Key, DT Series user can access to various features with simple operation.



For the ITY-8LDX-1, three lines of menu items can be displayed at a time.

The following figure shows the menu screen for the ITY-8LDX-1. Use "Up" or "Down" key to scroll to the item.



(15) Enter

Note: *ITY-8LDX-1 does not support the Shortcut Menu.*

(16) Redial/CID Scroll

(Last Number Call, Speed Calling-Station/Group)

Press key once to activate redial feature. Press redial and scroll through numbers that have been dialed.

When the desired number is displayed, press the # key to activate dialing.

Press key twice to activate the CID scroll feature. Press key twice and scroll through numbers that have been received.

When the desired number is displayed go off hook to activate dialing.

(17) Speaker

Controls the built-in speaker which can be used for Hands Free dialing/monitoring.

LED on key lights when key is active.

DT820 supports half/full duplex handsfree.

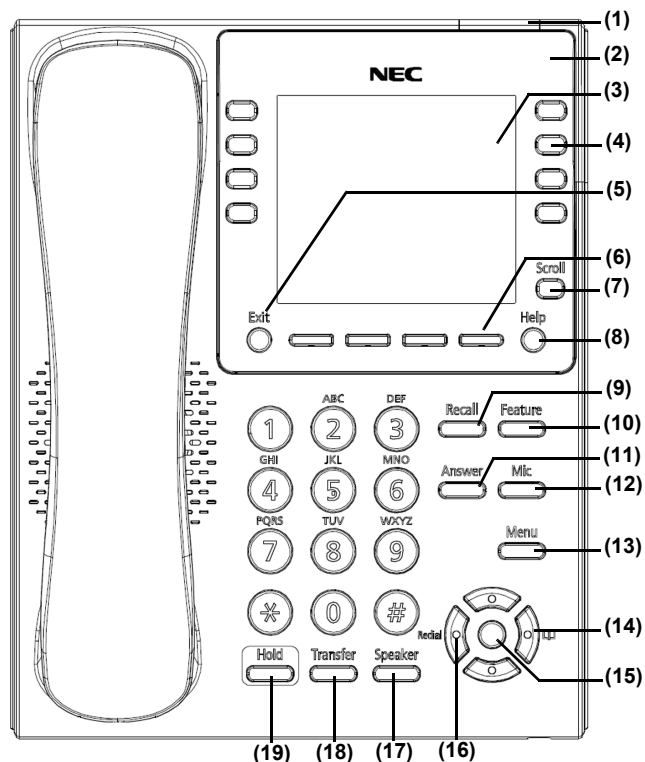
(18) Transfer

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

(19) Hold

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

ITY-8LCGX-1 (Self-Labeling 8-Button with Color LCD)



(1) Call Indicator Lamp

On the SV9100, this lamp flashes fast when a call terminates to the terminal and flashes slower when a message has been left.

(2) ITY-8LCGX-1 Display











32 (8 keys x 4 pages) additional programmable keys are provided. They can be programmed as Flexible Line/Programmable feature key by Telephony Server Administrator. For the SV9100, the programmable keys can be set by WebPro/PCPro/Handset Pro and the user can also set them.

Note: *Maximum 11 characters (including icon)*
Maximum 13 characters (excluding icon)

(a) Icon

Status of the Line key such as Call Ringing, Call Hold or Busy, and setting on the Feature key are shown as Icons.

User's Status	Icon	Flashing Pattern
<ul style="list-style-type: none"> Idle I-HOLD 		Blink Note
<ul style="list-style-type: none"> Others Hold 		
<ul style="list-style-type: none"> Recall 		Blink Note
<ul style="list-style-type: none"> Incoming Ringing 		
<ul style="list-style-type: none"> During Conversation (Individual Use) Call Transfer Conference 		
<ul style="list-style-type: none"> During Conversation (Other Party Use) Active Feature (Under a setting of feature key like a "Call Forwarding") 		
<ul style="list-style-type: none"> Others 		Steady Lit
<ul style="list-style-type: none"> Key is busy (example, if programmed as a virtual extension and the virtual extension is busy). 		

(b) Feature Key Information

Feature Key Information displays the followings.

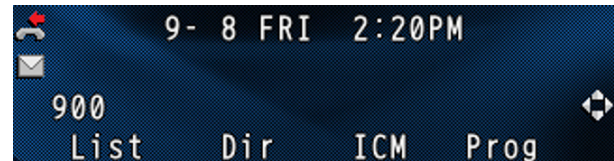
Key	Description	Maximum digits to be displayed
Line Key	- Name and Number information	Refer to note*
Feature Key	- Feature Name	Refer to note*
One-Touch Speed Dial Key	- Speed Dial Name Information - Number Information	Refer to note*

Note: *Maximum 11 characters (including icon)*
Maximum 13 characters (excluding icon)

(3) LCD (Note 1)

LCD (Liquid Crystal Display) provides DT Series activity information plus data, time and Softkey Operation.

The LCD on the ITY-8LCGX-1 has a 28-character, 4-line capability.



(4) Programmable Keys

These keys can be programmed as Flexible Line key/Programmable Feature Key by Web/PCPro.

(5) Exit

The user can exit from a screen mode by pressing this key.

(6) Softkeys

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.

(7) Scroll Key

This key is used to turn over the page of 8LD display.

(8) Help

The user can press this key followed by a programmable key to Check what Line or Programmable Feature is programmed on the key.

(9) Recall

Press key to finish an outside call and hear the dial tone. With Centrex trunks press the recall key to hook flash the line.

(10) Feature

Used to activate any features as terminal setup functions.

(11) Answer

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

(12) Mic

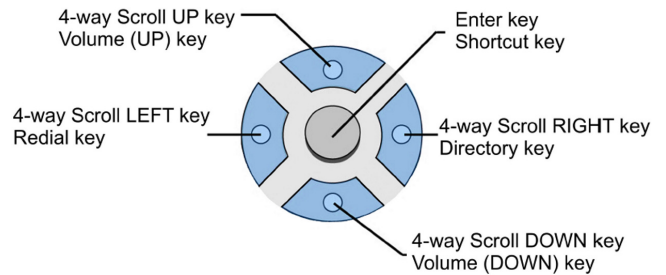
Press the key to Mute/Un-Mute the speaker and/or handset.

(13) Menu

From this key, the user can access to the functions not normally used (such as terminal settings, downloads and access to XML applications) easily.

(14) Cursor

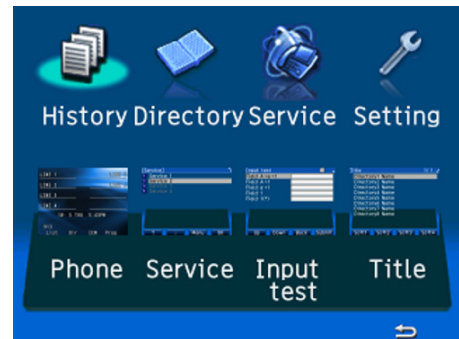
By using this Key, DT Series user can access to various features with simple operation.



For the ITY-8LCGX-1, three lines of menu items can be displayed at a time.

The following figure shows the menu screen for the ITY-8LCGX-1. Use "Up" or "Down" key to scroll to the item.

Menu of ITY-8LCGX-1



(15) Enter

The ITY-8LCGX has a shortcut menu for frequently-used features. Use this key to display the shortcut menu and determine the selected item in the menu. Also, this key is used as cursor-movement key on the local menu of the telephone.

(16) Redial/CID Scroll

(Last Number Call, Speed Calling-Station/Group)
Press key once to activate redial feature. Press redial and scroll through numbers that have been dialed.

When the desired number is displayed, press the # key to activate dialing.

Press key twice to activate the CID scroll feature. Press key twice and scroll through numbers that have been received.

When the desired number is displayed go off hook to activate dialing.

(17) Speaker

Controls the built-in speaker which can be used for Hands Free dialing/monitoring.

LED on key lights when key is active.

DT820 supports half/full duplex handsfree.

(18) Transfer

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


(19) Hold

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

Menu List

From the Menu List, the user can use various application features.

To Display Menu List

- ☐ Press  Key. The Menu List is displayed in LCD. Use Cursor Key to select desired Menu Item.

Simple Operation by Menu Key and Cursor Key

By using Menu Key and Cursor Key, DT Series user can have access to terminal settings with simple operation.

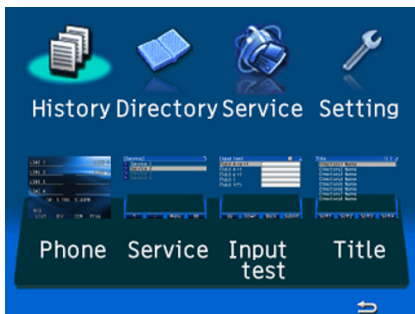
As an example, the following shows the operations how to access the menu.







ITY-6D-1





















ITY-8LDX-1



ITY-8LCGX-1

	Menu/Icon	Description
Local Application	(1) History ITY-6D-1: None	To view Call History ; the history data stored in the server (system) memory and that stored in the memory of the telephone (ITY-8LCGX-1 only, such as the histories of missed calls, dialed numbers, and received calls.
	ITY-8LDX-1:  ITY-8LCGX-1: 	
	(2) Directory ITY-6D-1 None	To use Directory features; there are three types of directory features. <ul style="list-style-type: none"> • Phonebook: Controlled by the system. • Personal Directory: Controlled by telephone set (ITY-8LCGX-1 only).
	ITY-8LDX-1:  ITY-8LCGX-1: 	

	Menu/Icon	Description
Local Application	(3) Service ITY-6D-1:  ITY-8LDX-1:  ITY-8LCGX-1: 	XML application screen registered in the service URL is displayed. When the service URL is not registered, Service icon is not displayed.
	(4) Setting ITY-6D-1:  ITY-8LDX-1:  ITY-8LCGX-1: 	To make the user settings of DT820 such as incoming call and display, and download various files such as ringtones, Music on Hold, and directories.
XML Services	(5) Phone/ Portal ITY-6D-1:  ITY-8LDX-1:  ITY-8LCGX-1: 	When the home URL is not registered, Phone screen icon is displayed. When the home URL is registered, a screen icon of XML application which was registered as the home URL and the application name (Portal) are displayed.
	(6) XML application 1	You can launch up to four XML applications including the Portal screen at a time. The icons of the running applications are displayed on the Menu screen from the left.
	(7) XML application 2	
	(8) XML application 3	

	Menu/Icon	Description
Soft Keys	(9) Phone icon ITY-6D-1: 	When you select the Phone icon, a pop-up screen is displayed on an XML application screen.
	ITY-8LDX-1: 	When XML application is registered in the home URL, the phone icon is displayed. When a home URL is not registered, the phone icon is not displayed.
	ITY-8LCGX-1: 	Note: <i>If pop-up window display is disabled at installation, this icon is not displayed.</i>
	(10) Home URL icon ITY-6D-1: 	XML application screen registered in the home URL is displayed. When the home URL is not registered, Home URL icon is not displayed.
	ITY-8LDX-1: 	
	ITY-8LCGX-1: 	
	(11) Back icon ITY-6D-1: 	When you select the Back icon, you can go back to the previous screen.
	ITY-8LDX-1: 	
	ITY-8LCGX-1: 	

• Starting Up XML Application


DT820 has an XML browser function. You can display the information of XML application installed in an external server onto the LCD of DT820 and use various services in collaboration with the XML application.

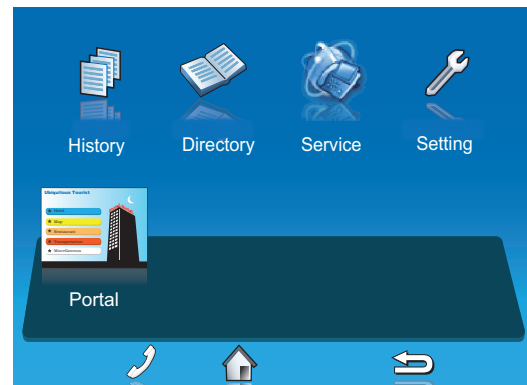
The following explains how to start the XML application from DT820. For more information, refer to manuals relating to XML applications.

To Start Up from Menu Button

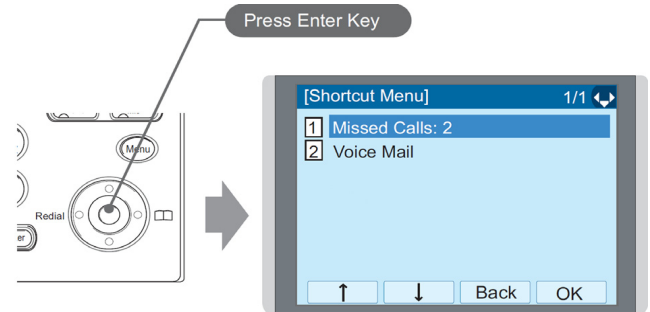
STEP 1: Select Service.

Select an item by one of the following operations.

- Highlight an item by using cursor key, and press , or **OK**.
- Press **3**.




STEP 2: XML Application will start up.

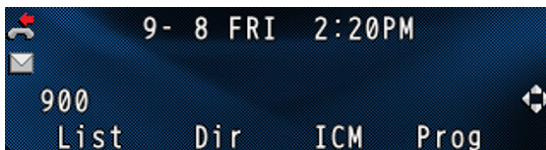


Shortcut Menu

Feature	Description
1 Missed Calls	Access history of Missed Calls. The icon disappears after checking the history.
2 Voice Mail	Access history of incoming Voice Mail. The icon disappears after checking the voice mails.

Shortcut Menu








The LCD of ITY-8LCGX-1 displays icons when there are missed calls or new voice mails. You can open shortcut menu by pressing  (**Enter**). You can also check missed calls or access the new voice mails from shortcut menu.



- **Status Icons (ITY-8LCGX-1 Only)**

The LCD displays icons in the icon information area when there are missed calls or new voice mails. You can check the status at a glance, and access the services quickly.

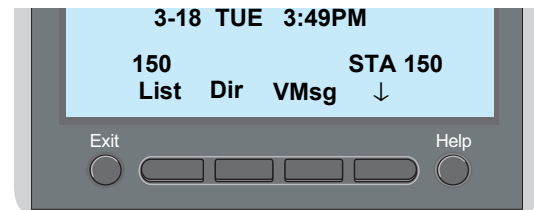
The following icons are displayed:

Feature	Icon	Description
Missed Call		This icon appears when there is a missed call. Once you check the missed call, this icon will disappear.
Voice Mail		This icon provides notification of incoming Voice Mail. Once you check the mail, this icon will disappear.
Security Mode		This icon appears when the network negotiation between DT820 and UNIVERGE SV8000 and SV9000 series is encrypted.
RTP Encryption		This icon appears when the conversation is encrypted.
Ecology Mode		This icon appears when the ecology mode is enabled. Note that the ecology mode is controlled by UNIVERGE SV9000 series.
Call Recording		This icon appears when the call recording is working.
Cursor		This icon indicates the currently available direction of the cursor. This icon is displayed in the menu screen.

Soft Keys

Soft Keys on DT820 provide a set of functions on the LCD that adapts to the changing state of the telephone.

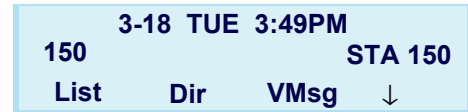
Note: *Patterns and names of Soft Keys to be displayed are set at installation. For details, contact the System Administrator.*



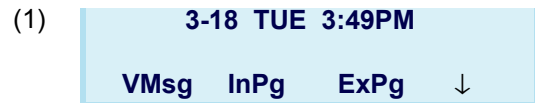
- **Display Samples**

Soft Keys provide a set of functions on the LCD that adapts to the changing state of the telephone.

IDLE



DIAL TONE/DIALING



Push ↓ (Down Arrow)



RINGING

```
3-18 TUE 3:49PM
CALLING          STA 101
Voice  MW  VMsg ↓
```

BUSY

(1)

```
3-18 TUE 3:49PM
BUSY           STA 101
MW  VMsg  Camp Barg
```

CONNECTION

```
3-18 TUE 3:49PM
TALKING TO    101
Conf
```

CONSULTATION HOLD

```
3-18 TUE 3:49PM
HOLD          STA 101
VMsg  InPg  ExPg ↓
```

• How to Use Soft Keys

This section provides some sample operations of features using **Soft Keys**.

Example 1: DO NOT DISTURB

STEP 1: Press ↓ (Down Arrow).

```
3-18 TUE 3:49PM
150          STA 150
List  Dir  VMsg ↓
```

STEP 2: Press **Prog**.

```
3-18 TUE 3:49PM
150          STA 150
ICM  Prog          ↑
```

STEP 3: Press **DND**.

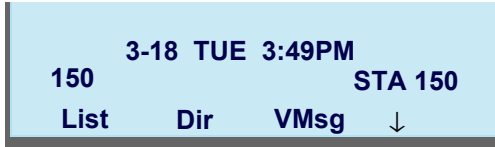
```
PGM/Save-Menu
Cfwd  DND  STA  ↓
```

STEP 4: Press **Set** to set DND or **Cncl** to cancel it.

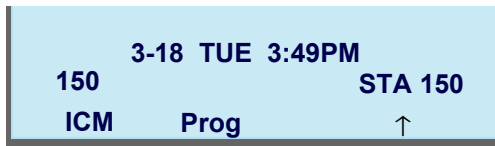
```
SET DND
Set  Cncl
```

Example 2: CALL FORWARD

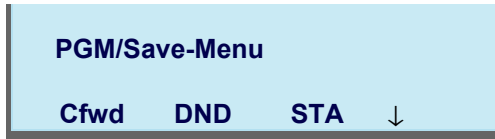
STEP 1: Press ↓ (Down Arrow).



STEP 2: Press **Prog**.



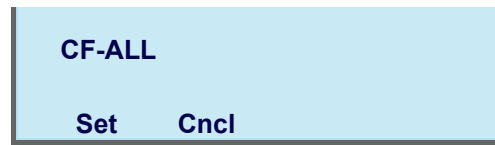
STEP 3: Press **Cfwd**.



STEP 4: Select the Call Forward type.



STEP 5: Press **Set** to set Call Forward or **Cncl** to cancel.



Multi-Window

DT820 can display multiple windows at a time.

As it is possible to launch multiple applications simultaneously, you can switch the displays quickly. If you receive an incoming call while displaying an application screen, you can operate line keys without exiting other applications first.

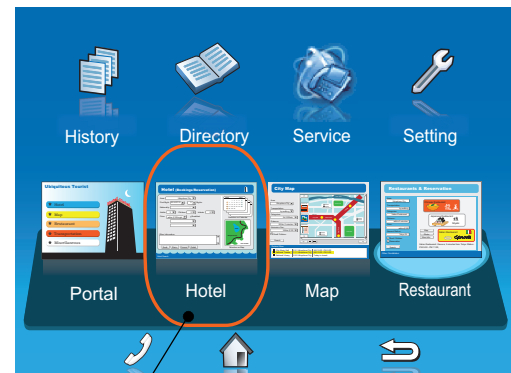
You can go back to the previous application screen after operating the line keys.

- **Switching XML Applications**

The windows of the XML applications that are currently running are displayed as icons on the menu screen.

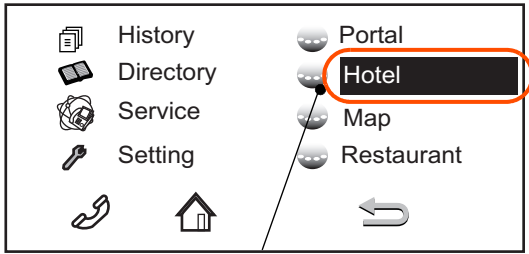
You can use this screen to switch windows to display. Select a service icon of the application that are currently running from the menu screen to display the XML application window.

[ITY-8LCGX-1]



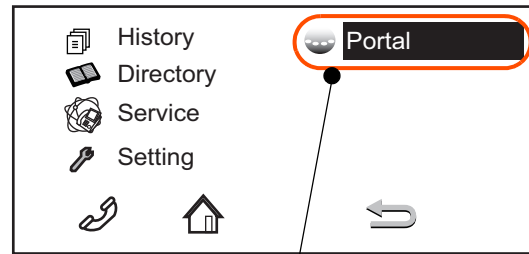
Select a service icon of the XML application to display.

[ITY-8LDX-1]



Select a service icon of the XML application to display.

[ITY-8LDX-1]



When a home URL is registered:



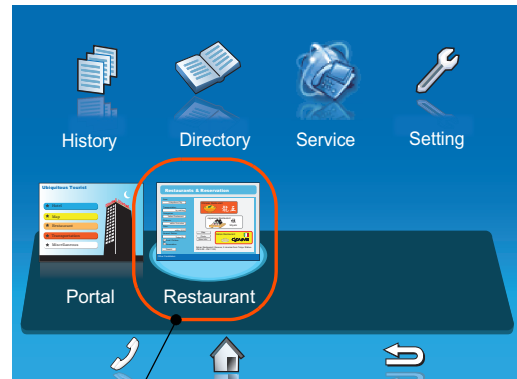
- When you launch an XML application, the icon of the application appears to the right of the **Portal** icon on the **Desktop** screen.

TIP

You can exit an XML application by pressing **Exit** while the LCD displays the XML application window. When you exit an XML application, the icons of other applications that are currently running are rearranged from left.

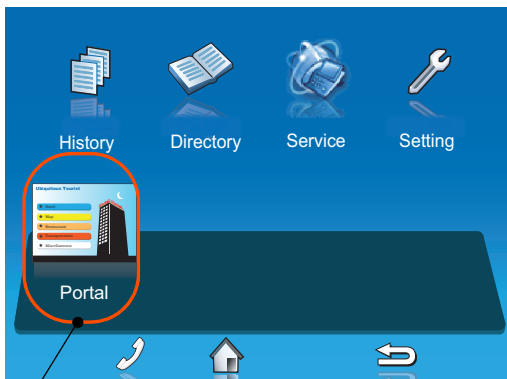
- Normally, only the Portal icon is displayed on the Desktop screen right after the phone is set up.

[ITY-8LCGX-1]



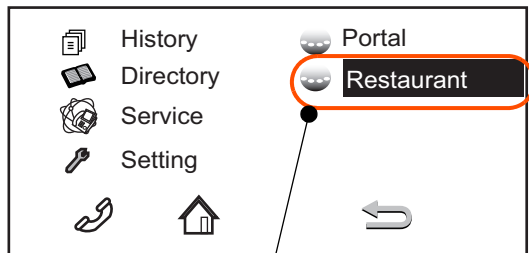
Displays the icon of the newly running XML application

[ITY-8LCGX-1]



When a home URL is registered:

[ITY-8LDX-1]

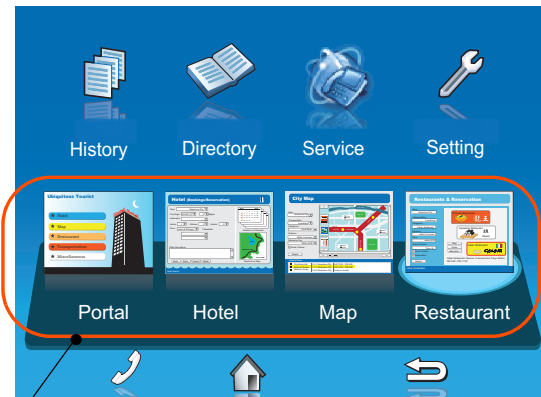


Displays the icon of the newly running XML application



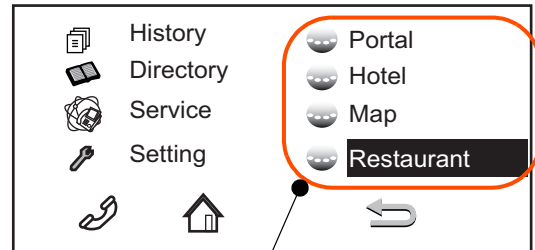
- You can launch up to four XML applications including the **Portal** window. The service icons of the running applications are displayed from the left in order of their launch.

[ITY-8LCGX-1]



Displays up to four XML application icons.

[ITY-8LDX-1]



Displays up to four XML application icons.

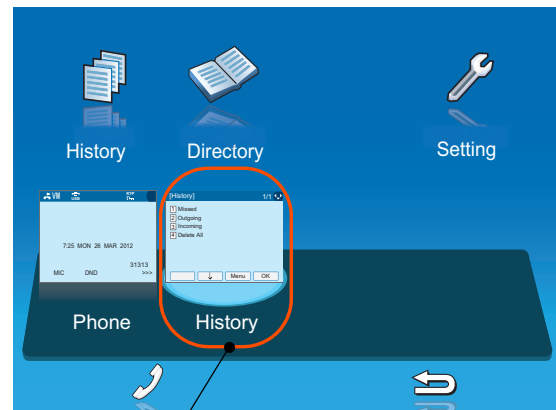
TIP

If you launch the same XML application more than once, only one icon of the application is displayed on the menu screen.

• **Switching Local Applications**

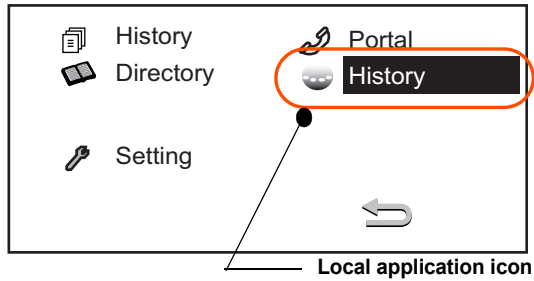
Local applications such as **History**, **Directory**, and **Setting** are displayed in one window.

[ITY-8LCGX-1]



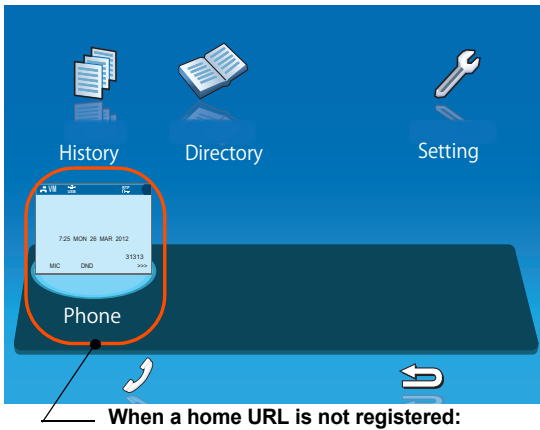
Local application icon

[ITY-8LDX-1]

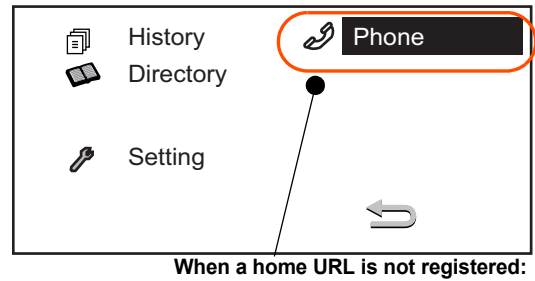


- Normally, only the **Portal** icon is displayed on the **Desktop** screen right after the phone is set up.

[ITY-8LCGX-1]

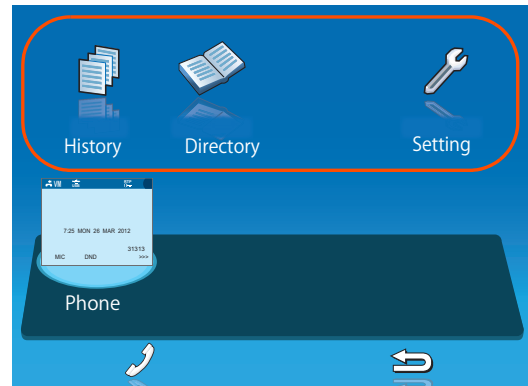


[ITY-8LDX-1]

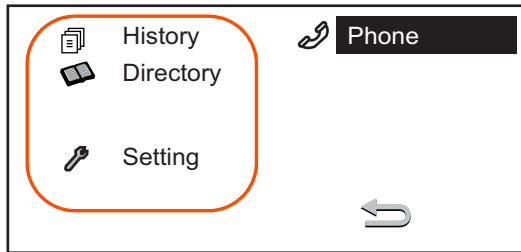


- Select a desired local application from icons to launch the application or setting **Menu**.

[ITY-8LCGX-1]

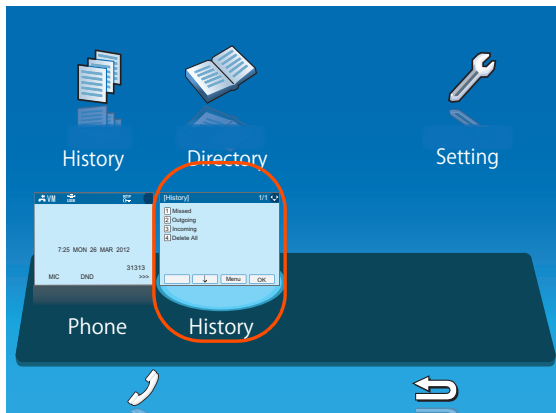


[ITY-8LDX-1]

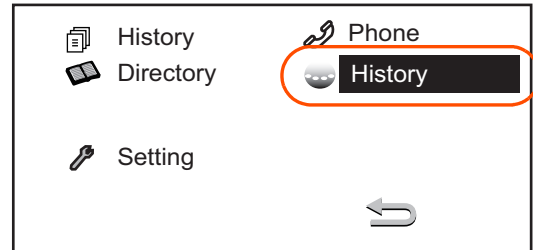


- If you stop operating the local application without exiting the application and press **Menu**, **History** icon is added to the right of the **Portal** icon. This icon shows the last screen you used. By selecting this icon, you can continue the operation of the application where you ended.

[ITY-8LCGX-1]



[ITY-8LDX-1]



TIP

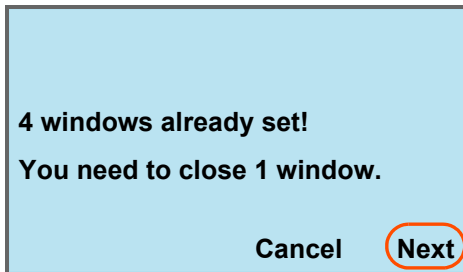
If you select a local application by using a One-Touch key while launching other local application, new local application is not running. The initial screen of the currently running application is displayed.

• Launching the Fifth Application

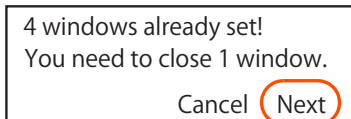
You can launch up to four XML applications including **Portal** at a time. If you try to launch a fifth application, an error message to ask you to exit one of the currently running applications is displayed. While this error message is displayed, you cannot execute any operations on XML applications.

- If you try to launch a fifth application, an error message to ask you to exit one of the currently running applications is displayed. Press **Next**.

[ITY-8LCGX-1]



[ITY-8LDX-1]



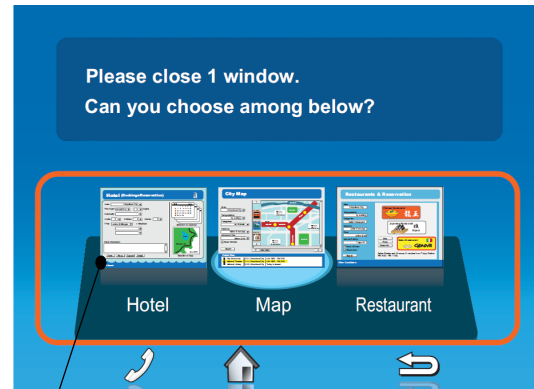
TIP

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.



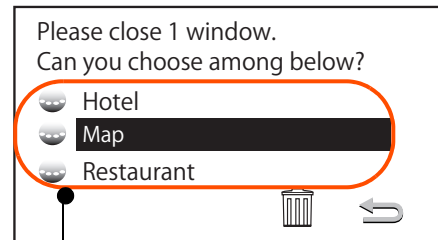
- Application exit screen is displayed. Currently running XML application icons excluding the **Portal** are displayed. Select an application to exit. Now you can launch a new application.

[ITY-8LCGX-1]



Currently running XML application icons excluding the Portal.

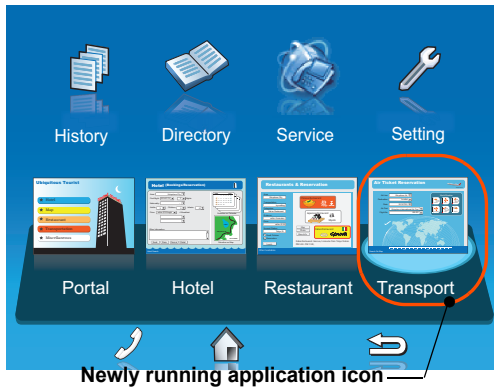
[ITY-8LDX-1]



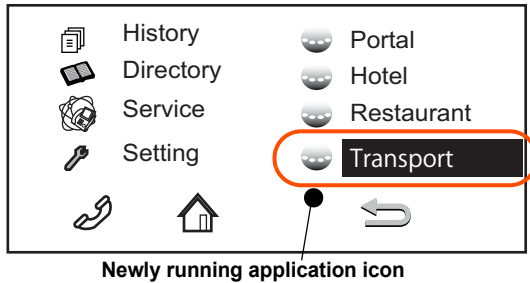
Currently running XML application icons excluding the Portal.

- The icon for the application you quit disappears from the menu screen. The newly running application icon is added to the right.

[ITY-8LCGX-1]



[ITY-8LDX-1]



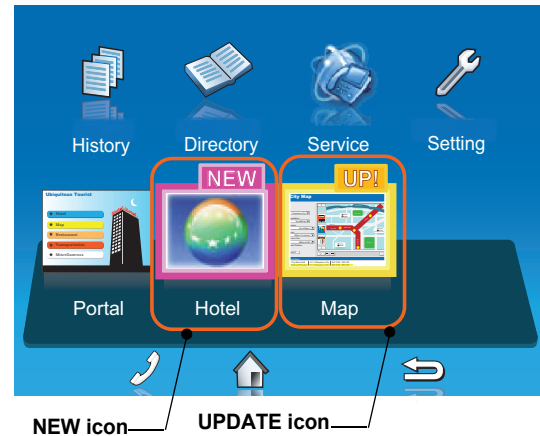
- **Icon Display at XML Application Update**

The service icons displayed on the menu screen are reduced screen images of actual XML application screens. The icon and the actual application display may differ because the system cannot iconize the screen image until it actually displays the application windows.

NEW icon is displayed when the application orders to display an icon that was formerly not displayed.

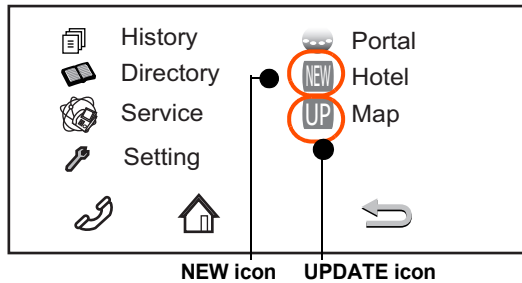
UPDATE icon is displayed when the window of the XML application is updated.

[ITY-8LCGX-1]



TIP | **NEW** and **UPDATE** icons flash every second.

[ITY-8LDX-1]

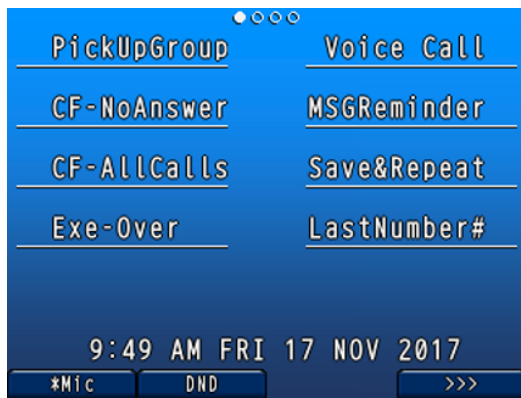


TIP NEW/UPDATE icon and Application icon appear alternately every second.

Pop-up Windows

If there is an incoming call while the phone is displaying an XML application, or a local application such as **History** or **Directory**, a telephone service window appears as a pop-up window.

[ITY-8LCGX-1]



[ITY-8LDX-1]



• Launching a Pop-up Window

There are several ways to display a pop-up window as listed below.

TIP A procedure how to display a pop-up window is set at installation. For details, contact the System Administrator.

How to Display
By selecting Phone icon on the menu screen.
When there is an incoming call to the phone.
By going off-hook. (lifting the handset, etc.)
When receiving a request from the XML application server.
By pressing POP-UP on an XML application.
When the system directs resource release.
By pressing Help key on the menu screen

TIP


If the previous page of the menu screen is the default home screen, the telephone icon of the menu screen will not be displayed.

TIP

When using Help key on the POP-UP window, Help key operation setting is required. For details, see [Set Usability](#).

• Exiting a Pop-Up Window

A pop-up window closes when:

-  is pressed to display the menu screen.
- The phone goes on-hook.
- The call is abandoned before being answered.
- XML application server directs to do so.
- **Pop-Up Close** on the XML application is pressed.

This page is for your notes.

2. TERMINAL SETUP

This chapter describes operating procedures for terminal settings. Various terminal settings such as display, sounds, password and language are available.



Setup With Up/Down Key

• Adjust Handset Receiver Volume

STEP 1: Press  (Up) or  (Down) in the off-hook status or during a call.



• Adjust Speaker Volume

STEP 1: Press  (Up) or  (Down) during speakerphone operation or during a call.



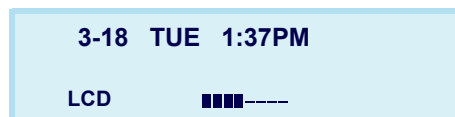
• Adjust Ringer Tone

STEP 1: Press  (Up) or  (Down) during ringing.



• Adjust LCD Contrast (ITY-6D-1, ITY-8LDX-1)



STEP 1: Press the Up/Down key in the on-hook status.



Setup With Feature Key

• Microphone On/Off

STEP 1: LED on  shows the status of the built-in microphone.

STEP 2: Press the MIC key or press  and .

Setup with Menu Key




• Enable/Disable Off-Hook Ringing

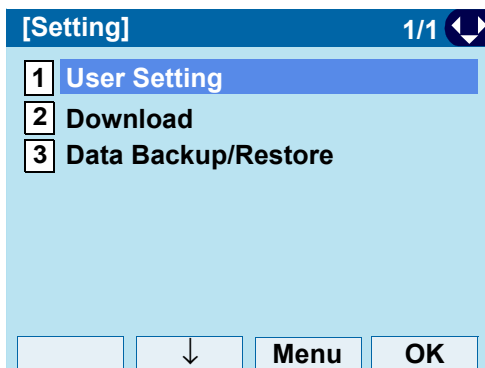
The procedure below shows how to enable/disable Off-hook ringing.

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

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




Select an item by one of the following operations.

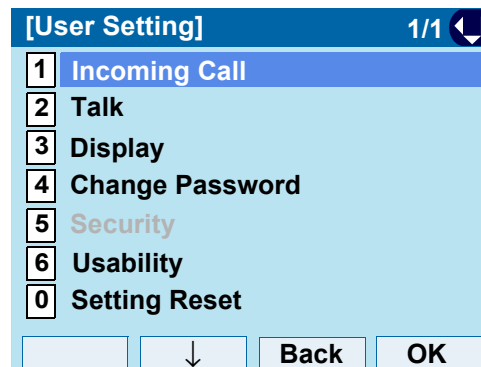
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



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



Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **1**.






STEP 4: Select **1 Offhook Ring**.

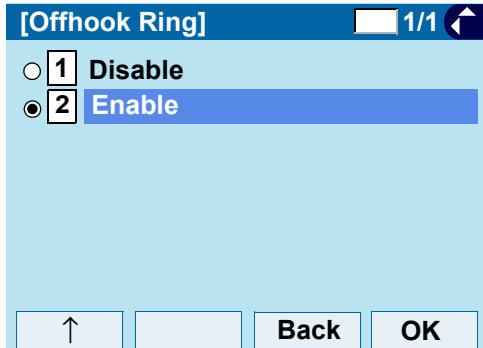
Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **2**.



STEP 5: To disable/enable the off-hook ringing, choose **1 Disable** or **2 Enable**.
Select an item by one of the following operations.

- Highlight an item by using , and press  or **OK**.
- Press **1** or **2**, and press  or **OK**.



TIP Default setting is **Enabled**.

TIP The enabled item is highlighted.




• Set Ringing of Headset

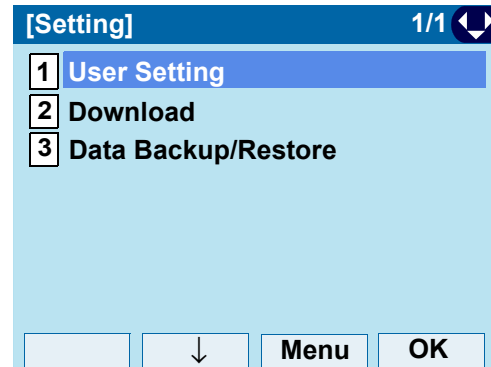
The procedure below shows how to enable/disable the ringing of headset.

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

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




Select an item by one of the following operations.

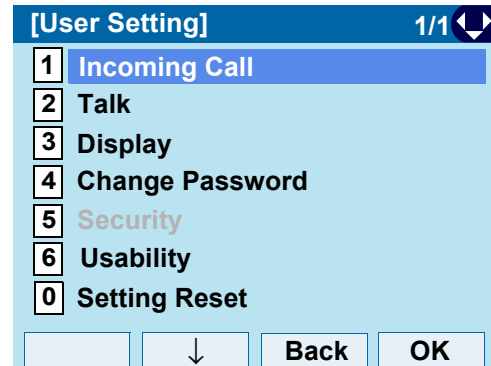
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.






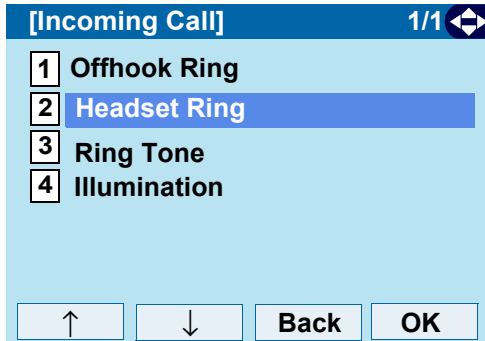
STEP 3: Select **1 Incoming Call**.




Select an item by one of the following operations.

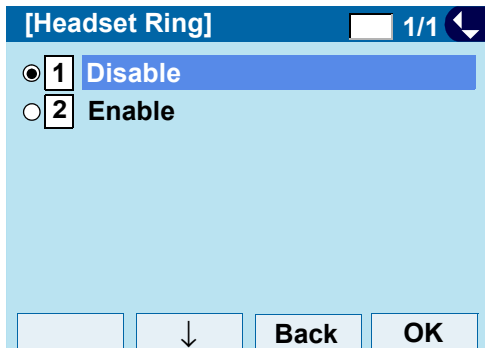
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



- STEP 4: Select **2 Headset Ring**.
Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **3**.



- STEP 5: To disable/enable the ringing of headset, choose **1 Disable** or **2 Enable**.
Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **1** or **2**, and press  or **OK**.






TIP | Default setting is **Disabled**.

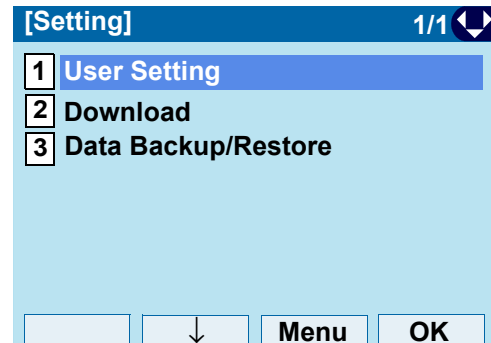
• To Set Ringer Tone




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

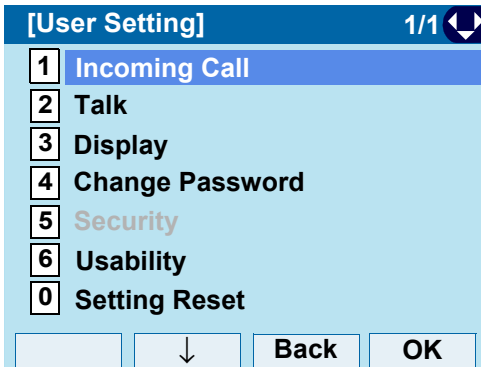
STEP 1: Display the **Menu** screen, select **Setting**.




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

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






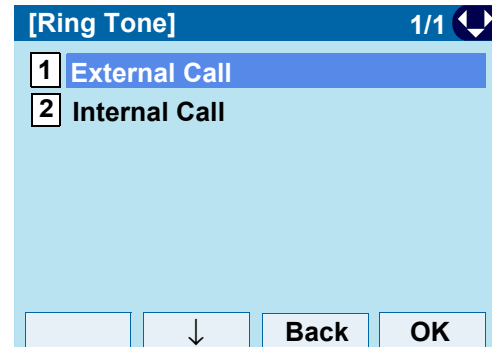
- STEP 3: Select **1 Incoming Call**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **1**.






- STEP 4: Select **3 Ring Tone**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **4**.



- 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 one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **1** or **2**.



- STEP 6: Select a desired tone type. You can preview designated ringer tone.
 Select an item by one of the following operations.
- Highlight an item by using , and press  or **OK**.
 - Press the digit key of desired number, and press  or **OK**.
- For example, press **1** + **5** to select **15 Download 1**.

[External Call] 1/3

- 0 Automatic
- 1 Tone Type 1
- 2 Tone Type 2
- 3 Tone Type 3
- 4 Tone Type 4
- 5 Tone Type 5
- 6 Tone Type 6
- 7 Tone Type 7

Back OK

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	-		

No.	Menu Item	Frequency (Hz)		Remarks
		1st	2nd	
16	Music Ring 2	-		
17	Music Ring 3	-		

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

Note: When selecting **Automatic**, the preview function will not operate. Also, when selecting **Download 1/2/3**, the ringer tone file must be downloaded in advance. If there is no downloaded file, you hear no tone.

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 to the system settings. For details, contact the System Administrator.

TIP The enabled item is highlighted.

TIP You can set the ringer tone for the telephone 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 **Terminal set**.


- **Set Illumination Pattern for Call Indication Lamp (ITY-8LCGX-1 Only)**

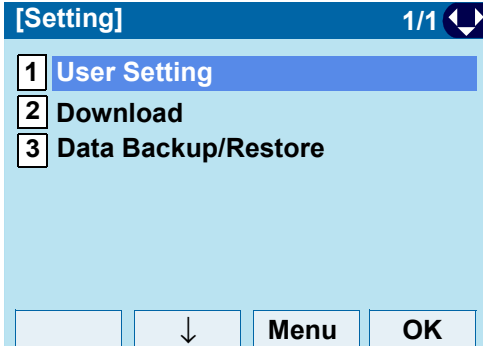
The procedure below shows how to set the illumination pattern (color of Call Indicator Lamp).

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

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


Select an item by one of the following operations.

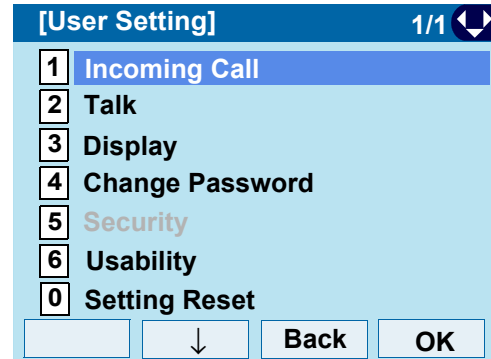
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



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



Select an item by one of the following operations.

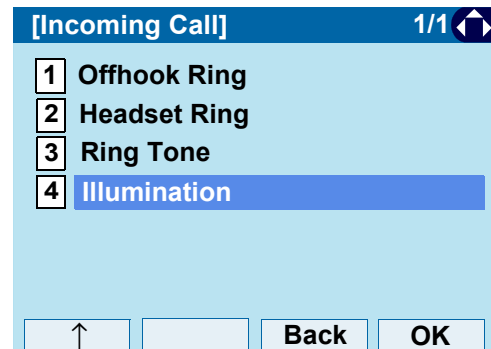
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.





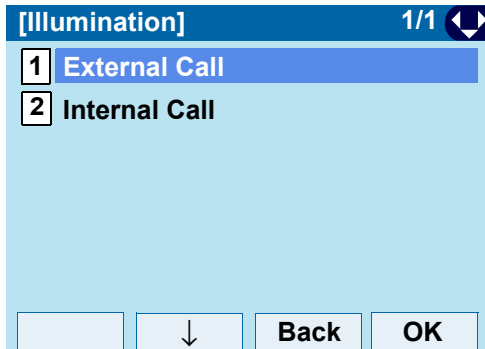
STEP 4: Select **4 Illumination**.




Select an item by one of the following operations.

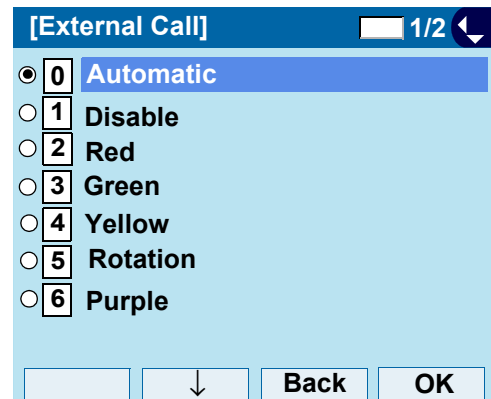
- Highlight an item by using , and press ,  or **OK**.
- Press **5**.



- 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 , and press , or **OK**.
 - 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 , and press , or **OK**.
 - Press **0** - **9**, and press , or **OK**.



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

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

TIP

You can set the illumination pattern for the telephone 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 **Terminal set**.




• Enable/Disable RTP Alarm

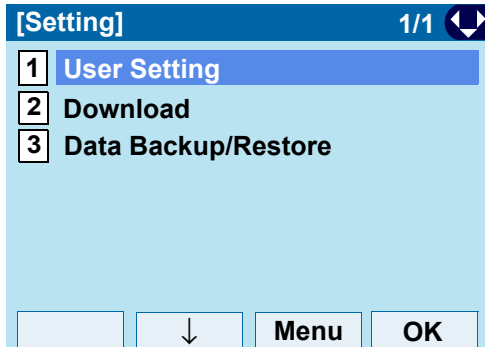
The procedure below shows how to enable/disable RTP alarm.

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

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



Select an item by one of the following operations.

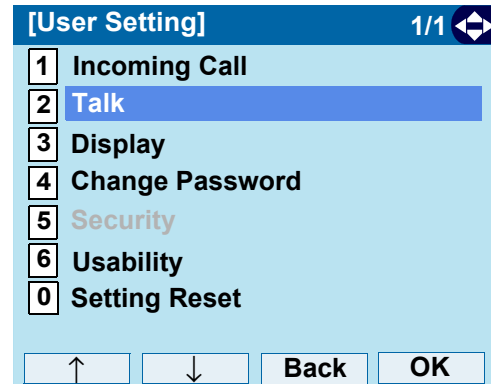
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



STEP 3: Select **2** **Talk**.




Select an item by one of the following operations.

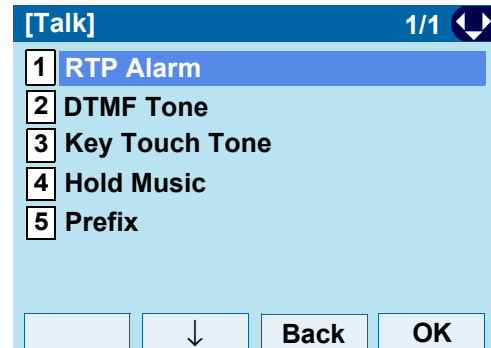
- Highlight an item by using , and press ,  or **OK**.
- Press **2**.






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

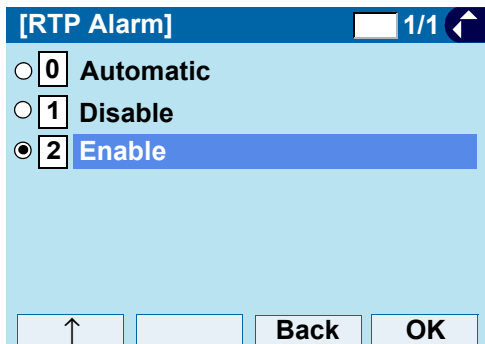
Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



STEP 5: Select **0 Automatic**, **1 Disable** or **2 Enable** (see the following table).
Select an item by one of the following operations.

- Highlight an item by using , and press  or **OK**.
- Press **0** - **2**, and press  or **OK**.



Menu Items	Description
0 Automatic	Follow the system settings. If no setting is made in the system, the default setting (Alarm=ON) is applied.
1 Disable	Follow the terminal settings (OFF).
2 Enable	Follow the terminal settings (ON).

TIP For the setting on the system, contact the System Administrator.

TIP Default setting is **Automatic**.

TIP The enabled item is highlighted.


• Enable/Disable DTMF Tone

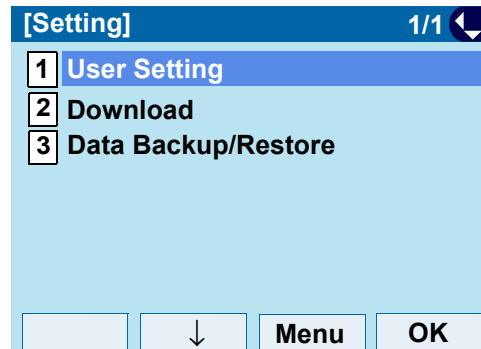
The procedure below shows how to enable/disable DTMF Tone.

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

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

Select an item by one of the following operations.

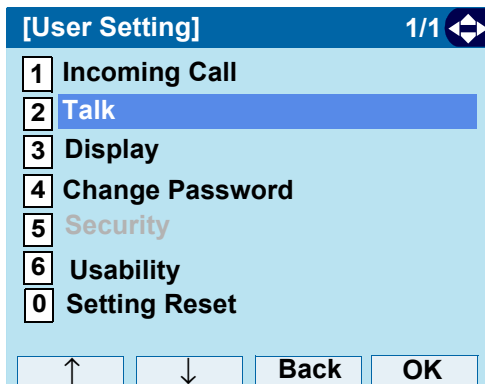
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.






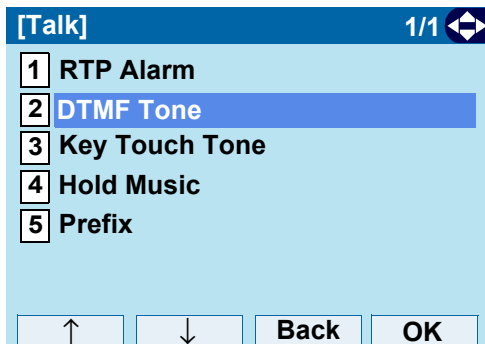
STEP 3: Select **2 Talk**.




Select an item by one of the following operations.

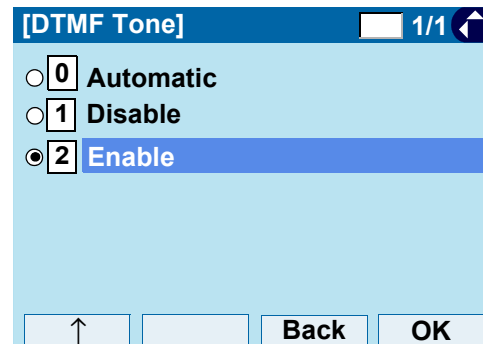
- Highlight an item by using , and press ,  or **OK**.
- Press **2**.



- STEP 4: Select **2 DTMF Tone**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **2**.



- STEP 5: Select **0 Automatic**, **1 Disable** or **2 Enable** (see the following table).
 Select an item by one of the following operations.
- Highlight an item by using , and press  or **OK**.
 - Press **0** - **2**, and press  or **OK**.



Menu Items	Description
0 Automatic	Follow the system settings. If no setting is made in the system, the default setting (DTMF=ON) is applied.
1 Disable	Follow the terminal settings (OFF).
2 Enable	Follow the terminal settings (ON).

- TIP** For the setting on the system, contact the System Administrator.
- TIP** Default setting is **Automatic**.
- TIP** The enabled item is highlighted.




• Set Key Touch Tone

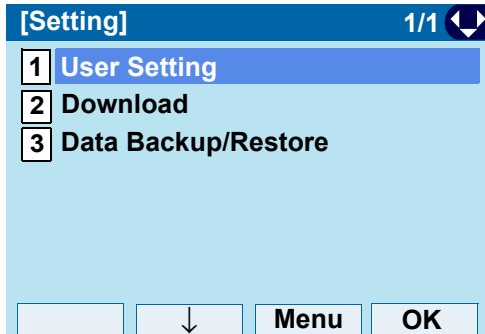
The procedure below shows how to set the Key Touch Tone. Key Touch Tone is a tone generated when the digit keys are pressed while DT820 is off-hook.

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

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




Select an item by one of the following operations.

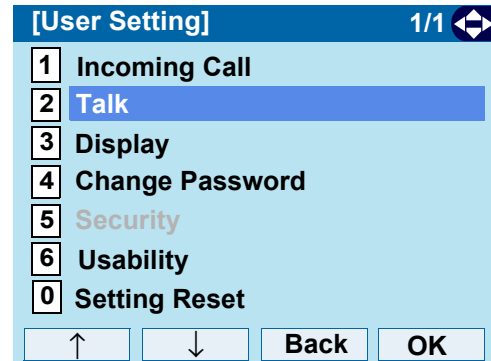
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



STEP 3: Select **2 Talk**.




Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **2**.



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




Select an item by one of the following operations.

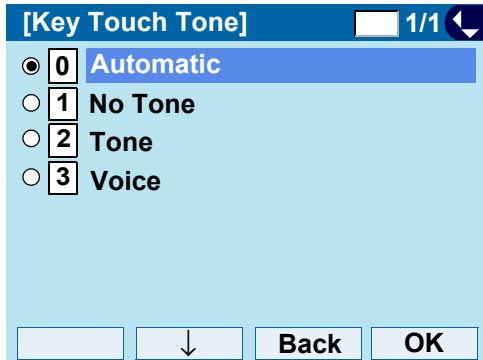
- Highlight an item by using , and press ,  or **OK**.
- Press **3**.



STEP 5: Select **0 Automatic**, **1 No Tone**, **2 Tone** or **3 Voice**.

Select an item by one of the following operations.

- Highlight an item by using , and press  or **OK**.
- Press **0** - **3**, and press  or **OK**.



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

TIP Default setting is **Automatic**.

TIP The enabled item is highlighted.



• Set Music on Hold

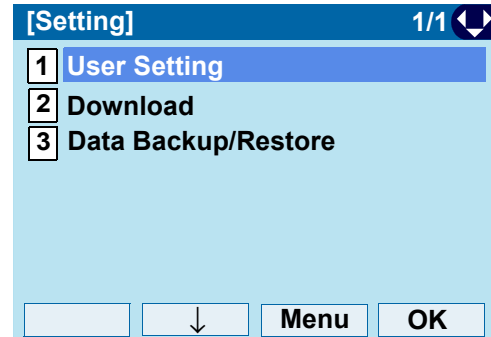
The procedure below shows how to set Music on Hold to be heard by DT820 user.

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

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




Select an item by one of the following operations.

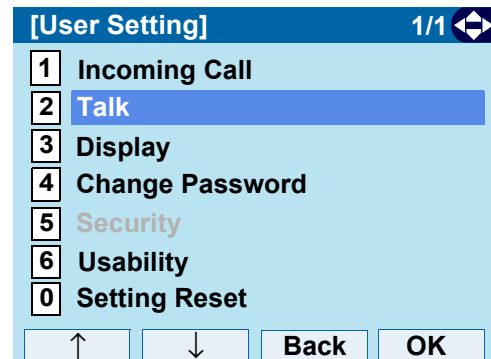
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.





STEP 3: Select **2 Talk**.

Select an item by one of the following operations.




- Highlight an item by using , and press ,  or **OK**.
- Press **2**.

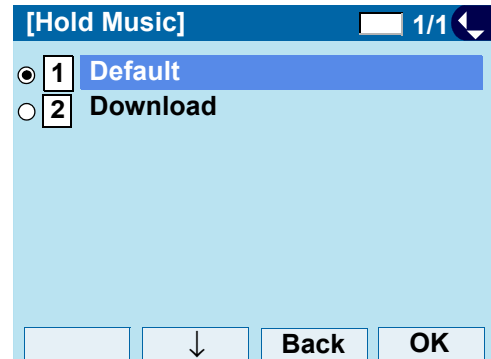


- STEP 4: Select **4 Hold Music**.
Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **4**.



- STEP 5: Select a desired Music on Hold. You can preview the designated Music on Hold.
- Choose **1 Default** when the default data (Minuet) is used as Music on Hold.
Choose **2 Download** when a downloaded data is used as Music on Hold.

- Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **1** or **2**, and press , or **OK**.



Note: You can preview the designated music on hold. 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.).

- TIP** Default setting is **Default** (Minuet).
- TIP** The enabled item is highlighted.

• Set Clock Format

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

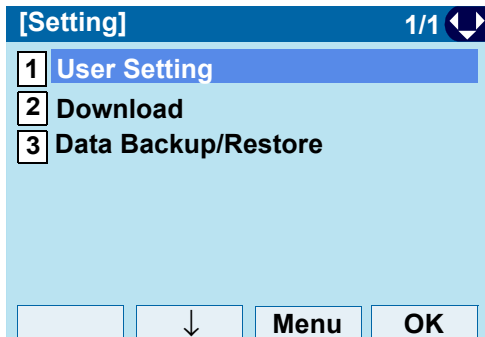
Note: *This setting is available for Time Display only. Call Log feature displays the time in 24-hour format regardless of this setting.*

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

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


Select an item by one of the following operations.

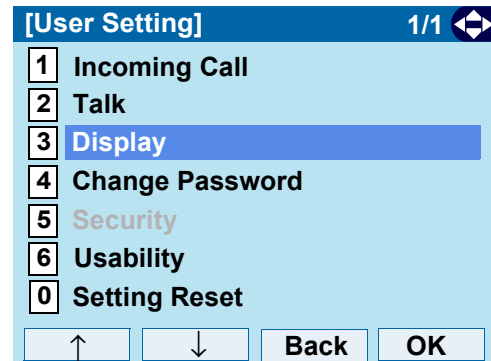
- Highlight an item by using , and press , or **OK**.
- Press **1**.



STEP 3: Select **3 Display**.


Select an item by one of the following operations.

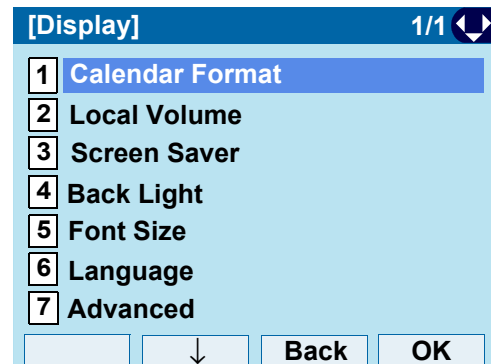
- Highlight an item by using , and press , or **OK**.
- Press **3**.






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

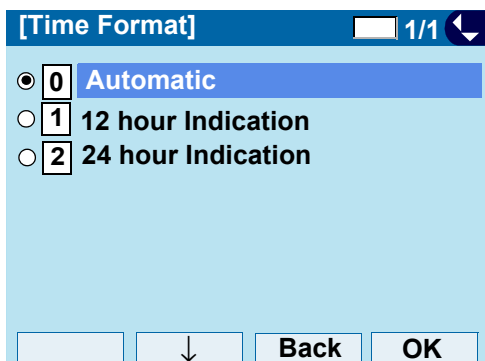
Select an item by one of the following operations.

- Highlight an item by using , and press , or **OK**.
- Press **1**.



STEP 5: Make a selection from the following list.
Select an item by one of the following operations.

- Highlight an item by using , and press  or **OK**.
- Press **0** - **2**, and press  or **OK**.



Menu Items	Description
0 Automatic	Follow the system settings.
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.

TIP For the setting on the system, contact the System Administrator.

TIP Default setting is **Automatic**.

TIP The enabled item is highlighted.




• Enable/Disable Volume Level Display

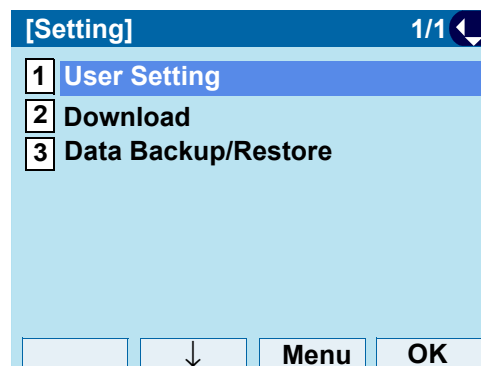
Determines whether or not to display the following volume levels: handset receiver volume, speaker volume, ringer tone volume and LCD contrast.

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

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

Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **1**.

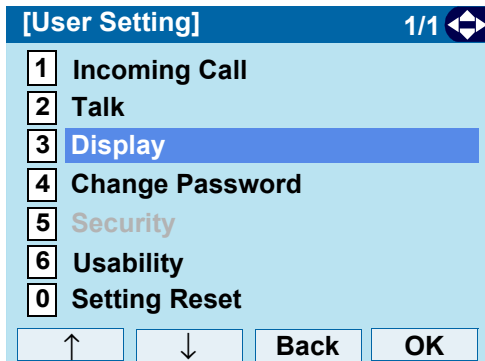


STEP 2: Select **3 Display**.

Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **3**.

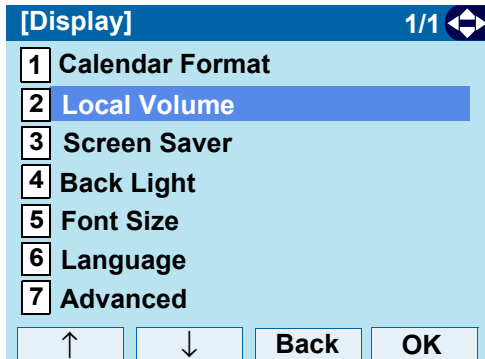
STEP 3:



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

Select an item by one of the following operations.

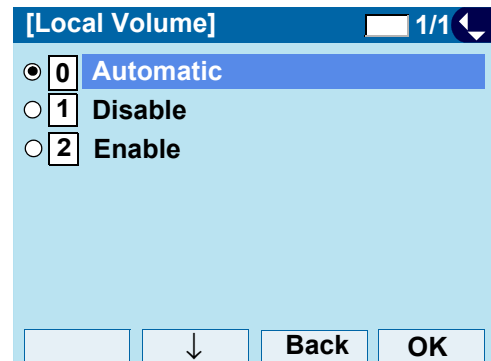
- Highlight an item by using , and press , or **OK**.
- Press **2**.



STEP 5: Make a selection from the following list.

Select an item by one of the following operations.

- Highlight an item by using , and press or **OK**.
- Press **0** - **2**, and press or **OK**.



Menu Items	Description
0 Automatic	Each volume level is displayed on LCD.
1 Disable	Each volume level is not displayed on LCD.
2 Enable	Each volume level is displayed on LCD.

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

TIP Default setting is **Automatic**.

TIP The enabled item is highlighted.

• Set Screen Saver



Screen Saver works after the telephone is idle for a certain period of time. The Screen Saver will be displayed from XML server when the XML server is available. If the Screen Saver cannot be downloaded from the XML server, the default Screen Saver will be displayed.

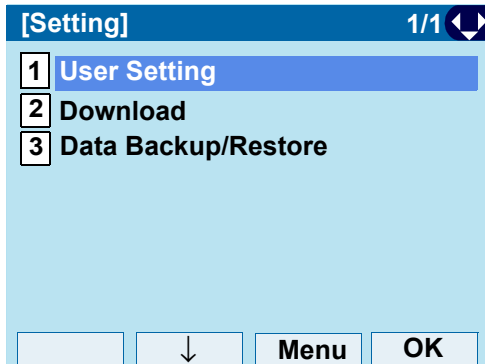
Note: For details on the XML service, contact the System Administrator.

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

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



Select an item by one of the following operations.

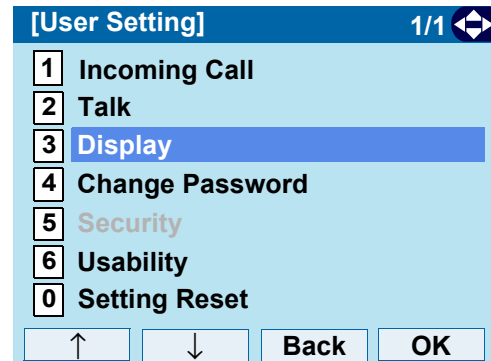
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



STEP 3: Select **3 Display**.




Select an item by one of the following operations.

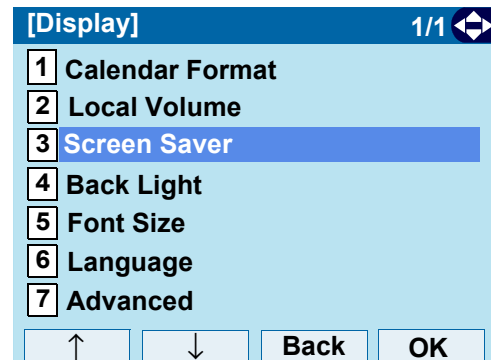
- Highlight an item by using , and press ,  or **OK**.
- Press **3**.






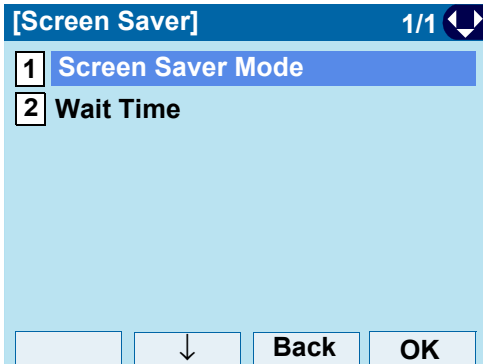
STEP 4: Select **3 Screen Saver**.




Select an item by one of the following operations.

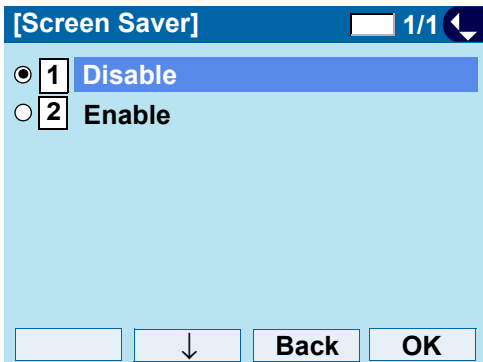
- Highlight an item by using , and press ,  or **OK**.
- Press **3**.



- STEP 5: Choose **1 Screen Saver Mode**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **1**.




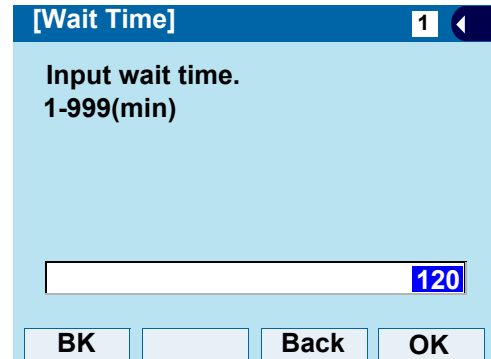
- STEP 6: Choose either **1 Disable** or **2 Enable**.
 Select an item by one of the following operations.
- Highlight an item by using , and press  or **OK**.
 - Press **1** or **2**, and press  or **OK**.



TIP Default setting is **Disable** (ITY-6D-1, ITY-8LDX-1).
 Default setting is **Enable** (ITY-8LCGX-1).
 If **1 Disable** is specified, an afterimage may occur on the LCD if the terminal is used for an extended length of time. Recommend using the **2 Enable** (default) setting.

TIP The enabled item is highlighted.

- STEP 7: The display returns to the Screen Saver screen. When **2 Enable** is selected, on Step 7 Select **2 Wait Time**.
 Input **Wait Time** to launch the screen saver (1-999 min) and press  or **OK**.



TIP Default value is 120 min.




• Set Brightness of Backlight

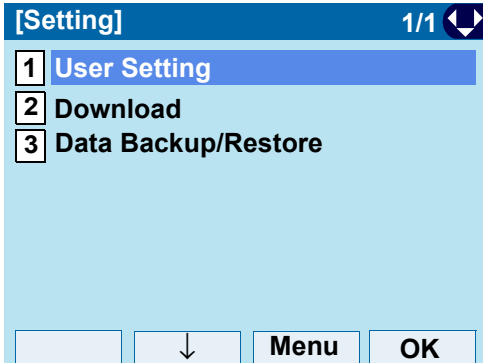
The following steps show how to set the brightness level of the LCD backlight.

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

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




Select an item by one of the following operations.

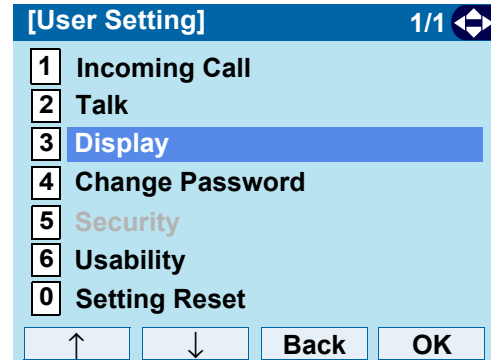
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



STEP 3: Select **3 Display**.




Select an item by one of the following operations.

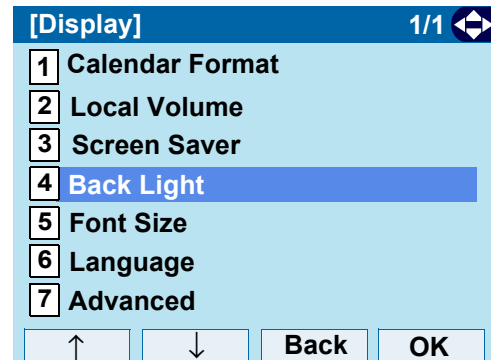
- Highlight an item by using , and press ,  or **OK**.
- Press **3**.






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

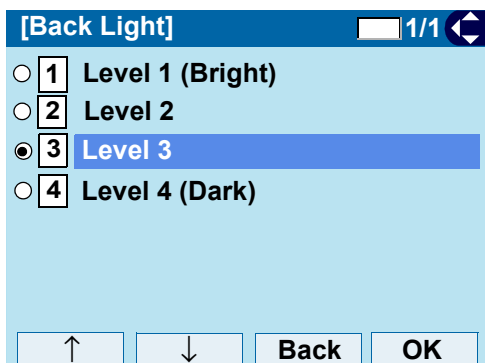
Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **4**.



STEP 5: Select a desired brightness level.
Select an item by one of the following operations.

- Highlight an item by using , and press  or **OK**.
- Press **1** - **4**, and press  or **OK**.



TIP Default setting is **Level 3**.



TIP The enabled item is highlighted.

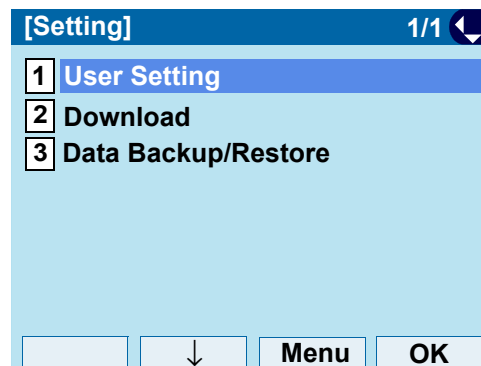
• Change Character Size

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

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



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

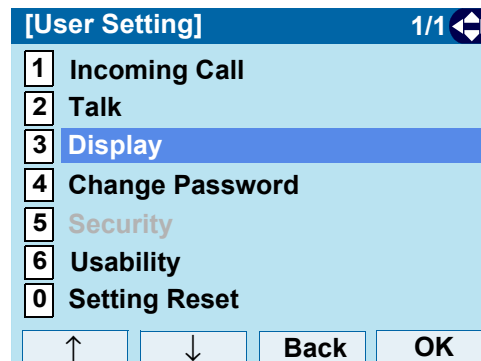
- Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **1**.





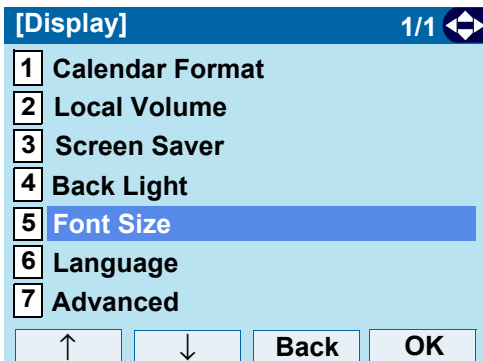
STEP 3: Select **3 Display**.




Select an item by one of the following operations.

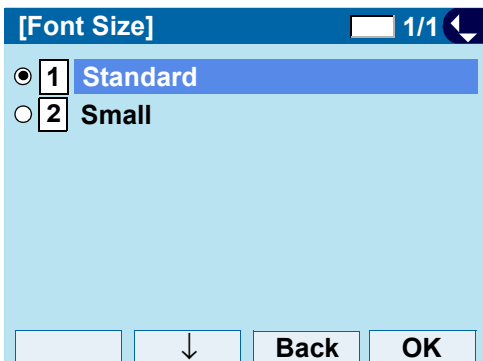
- Highlight an item by using , and press , or **OK**.
- Press **3**.



- STEP 4: Select **5** **Font Size**.
 Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **5**.



- STEP 5: Choose either **Standard** or **Small**.
 Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **1** or **2**, and press , or **OK**.





TIP Default setting is **Standard**.

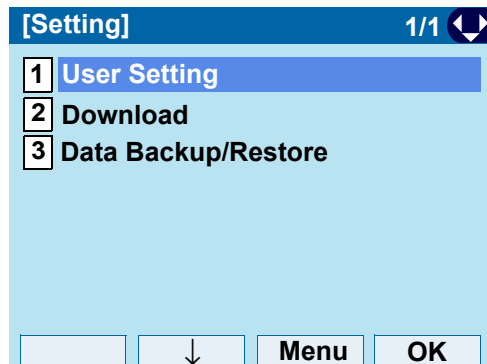
TIP The enabled item is highlighted.



• Set a Language

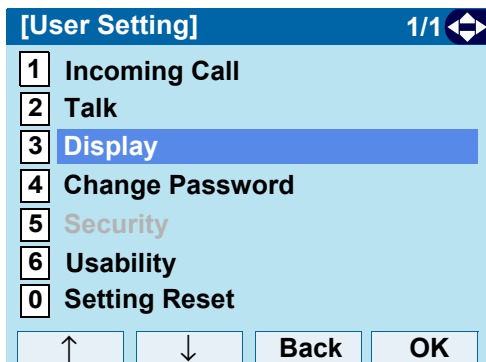
The following explains how to set a language to be displayed on LCD.




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

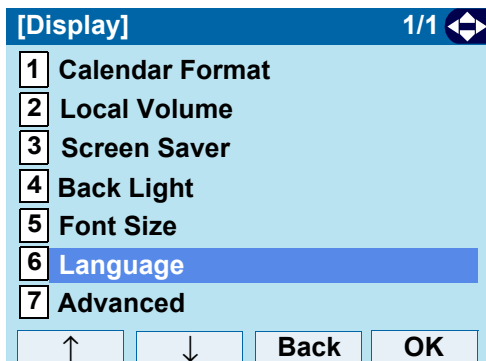
- STEP 2: Select **1** **User Setting**.
 Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **1**.






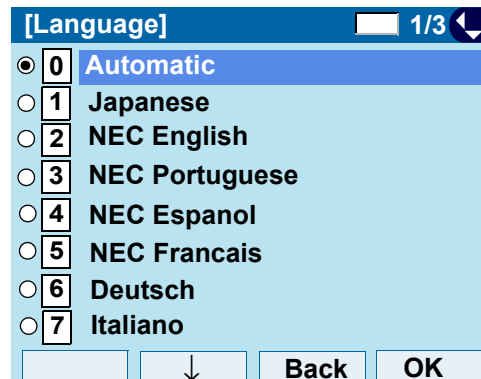
- STEP 3: Select **3** **Display**.
 Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **3**.



- STEP 4: Select **6** **Language**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **6**.



- STEP 5: Select a desired language.
 Select an item by one of the following operations.
- Highlight an item by using , and press  or **OK**.
 - Press the digit key of desired number, and press , or **OK**.
- For example, press **1** + **5** to select **15** **Spanish**.



TIP Default setting is **Automatic**.

TIP When selecting **Automatic**, follow the setting on the System. For the setting on the System, contact to the System Administrator.

TIP The enabled item is highlighted.

- **Set Wallpaper (ITY-8LCGX-1 Only)**



The following explains how to set wallpaper.

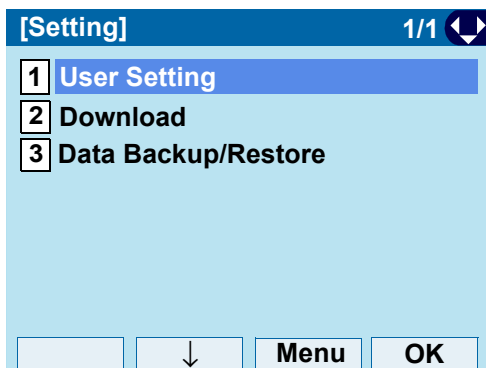
Note: *ITZ-12DG-3 does not support the wallpaper setting.*

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

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


Select an item by one of the following operations.

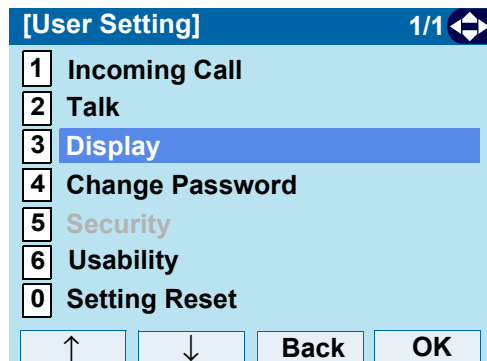
- Highlight an item by using , and press , or **OK**.
- Press **1**.



STEP 3: Select **3 Display**.

Select an item by one of the following operations.

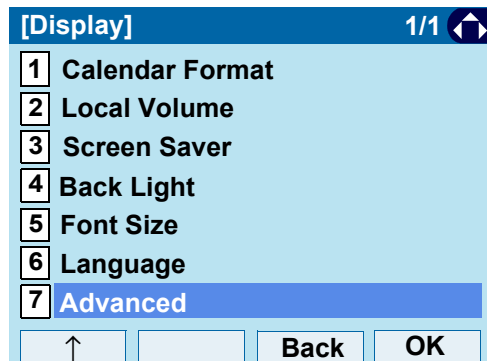
- Highlight an item by using , and press , or **OK**.
- Press **3**.






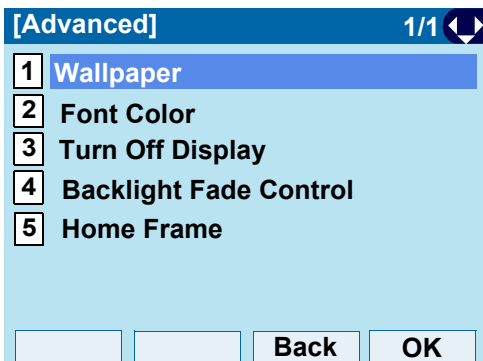
STEP 4: Select **7 Advanced**.




Select an item by one of the following operations.

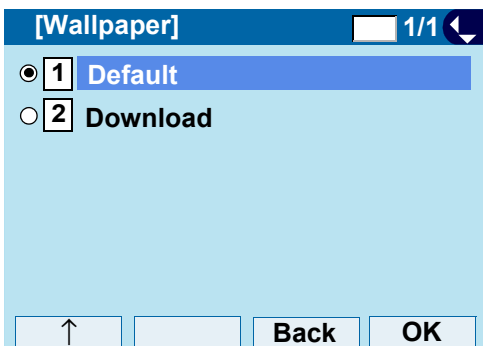
- Highlight an item by using , and press , or **OK**.
- Press **7**.



- STEP 5: Select **1 Wallpaper**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - 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 , and press  or **OK**.
 - Press **1** or **2**, and press  or **OK**.



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

TIP Default setting is **Default**.

TIP The enabled item is highlighted.




• Set Character Font Color (TY-8LCGX-1 Only)

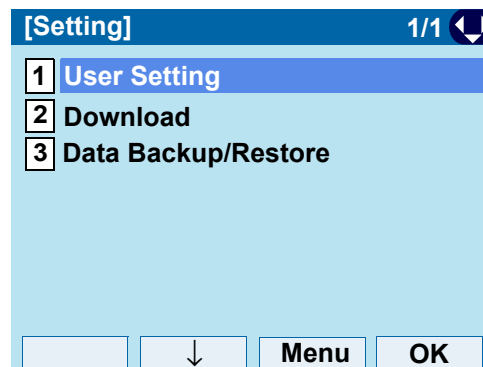
The following steps show how to set the displayed character color on the LCD.




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

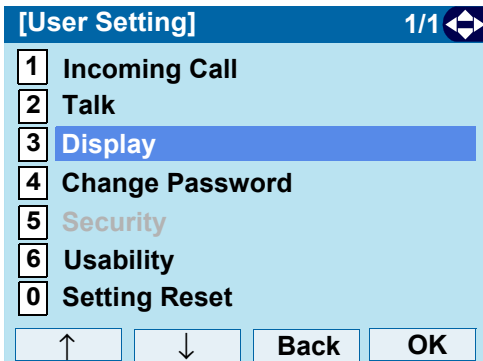
Note: ITZ-12DG-3 does not support Font Color setting.




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

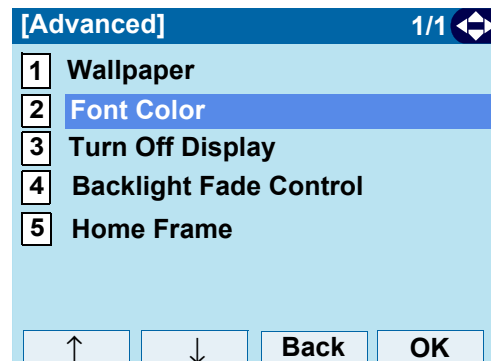
- STEP 2: Select **1 User Setting**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **1**.






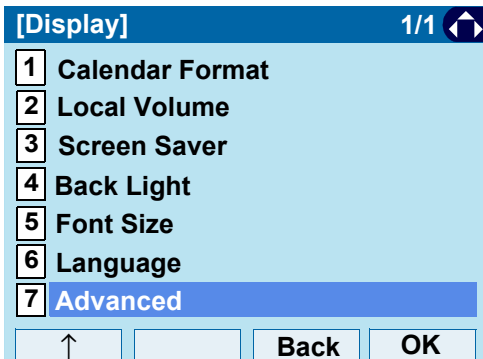
- STEP 3: Select **3 Display**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **3**.



- STEP 5: Select **2 Font Color**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **3**.



- STEP 4: Select **7 Advanced**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **7**.






- STEP 6: Select a desired color.
 Select an item by one of the following operations.
- Highlight an item by using , and press  or **OK**.
 - Press the digit key of desired number, and press  or **OK**.
- For example, press **1** + **5** to select **15 Color 15**.

Table of Font Color

[Font Color] 1/2

1 Color 1
 2 Color 2
 3 Color 3
 4 Color 4
 5 Color 5
 6 Color 6
 7 Color 7
 8 Color 8

[Font Color] 2/2

9 Color 9
 10 Color 10
 11 Color 11
 12 Color 12
 13 Color 13
 14 Color 14
 15 Color 15
 16 Color 16

NO.	Color Name	RGB code
1	Color 1	0x000000
2	Color 2	0x000080
3	Color 3	0x0000FF
4	Color 4	0x008000
5	Color 5	0x008080
6	Color 6	0x00FF00
7	Color 7	0x00FFFF
8	Color 8	0x800000
9	Color 9	0x800080
10	Color 10	0x808000
11	Color 11	0xA0A0A0
12	Color 12	0xC0C0C0
13	Color 13	0xFF0000
14	Color 14	0xFF00FF
15	Color 15	0xFFFF00
16	Color 16	0xFFFFFFFF

TIP The color of the character corresponds to an actual display color on the screen of the color selection.

TIP Default setting is **Color 2**.

TIP The enabled item is highlighted.


- **Set Turn Off Display (ITY-8LCGX-1 Only)**

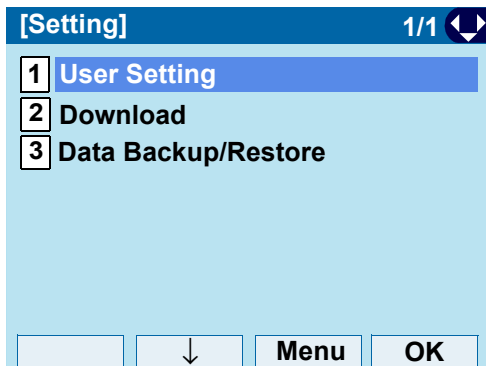
The Turn off Display works after the telephone is idle for a certain period of time. The following shows how to set Turn off Display.

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

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

Select an item by one of the following operations.

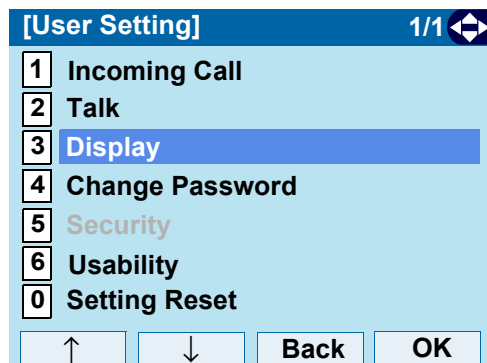
- Highlight an item by using , and press , or **OK**.
- Press **1**.



STEP 3: Select **3 Display**.

Select an item by one of the following operations.

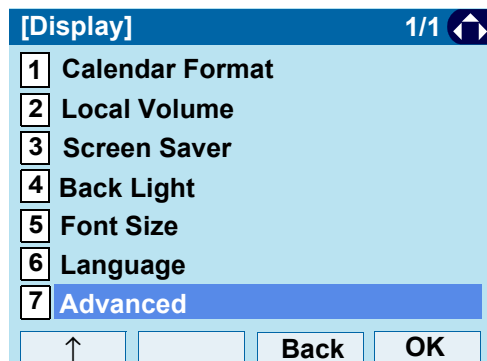
- Highlight an item by using , and press , or **OK**.
- Press **3**.






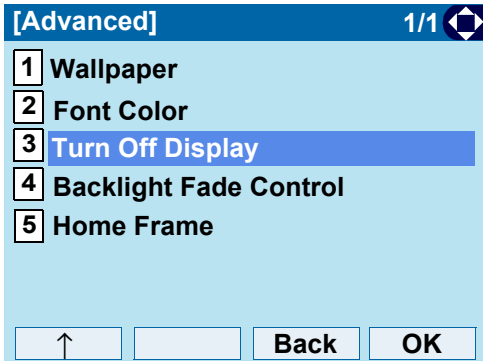
STEP 4: Select **7 Advanced**.




Select an item by one of the following operations.

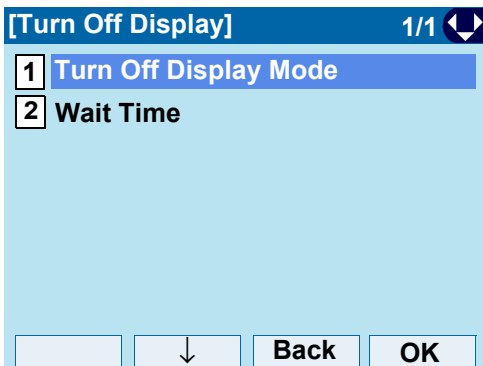
- Highlight an item by using , and press , or **OK**.
- Press **7**.






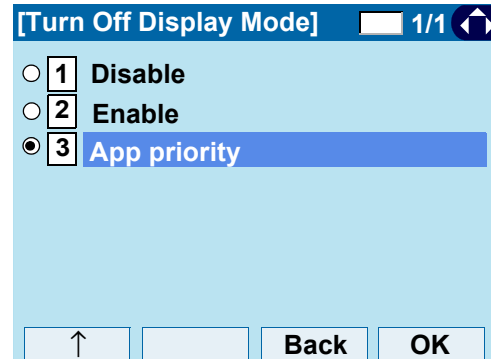
- STEP 5: Select **3 Turn Off Display**.
Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **4**.



- STEP 6: Choose **1 Turn Off Display Mode**.
Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **1**.



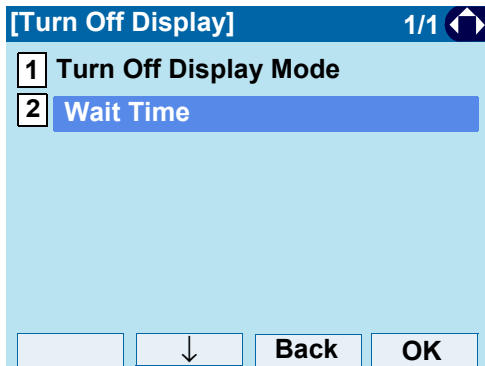
- STEP 7: Select **1 Disable**, **2 Enable** or **3 App priority**.
Select an item by one of the following operations.
- Highlight an item by using , and press  or **OK**.
 - Press **1**, **2** or **3**, and press  or **OK**.




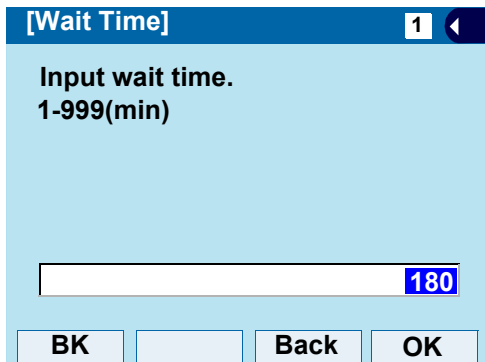
Note: You can set a screen saver to an external application. For details, contact the System Administrator.

- TIP** 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.
- TIP** The enabled item is highlighted.

- STEP 8: The display returns to the Turn Off Display screen. When **2 Enable** is selected at Step 7, Choose **2 Wait Time**.



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



TIP

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.

TIP

Default value is **180 min**.




• Set Backlight Fade Control

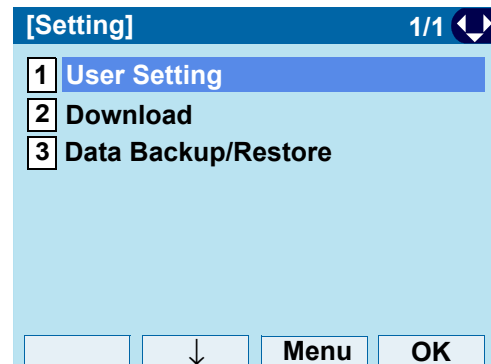
The following explains how to set Backlight Fade Control. When you set Backlight Fade Control as **Enable**, you can turn on/off the LCD smoothly.

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

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




Select an item by one of the following operations.

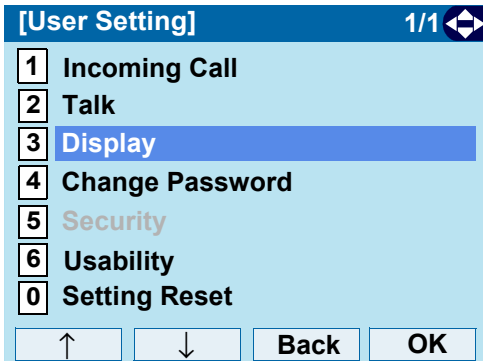
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



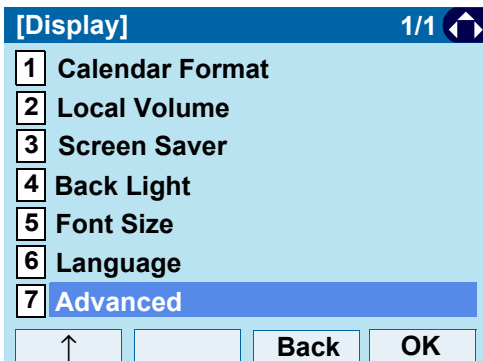
STEP 3: Select **3 Display**.

Select an item by one of the following operations.

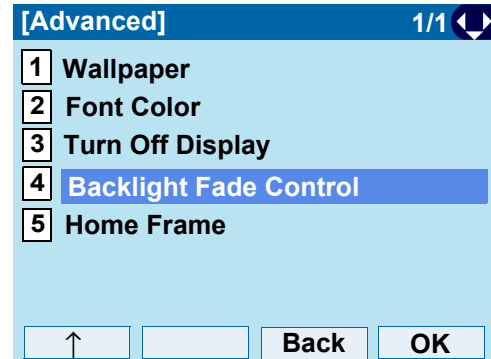
- Highlight an item by using , and press ,  or **OK**.
- Press **3**.



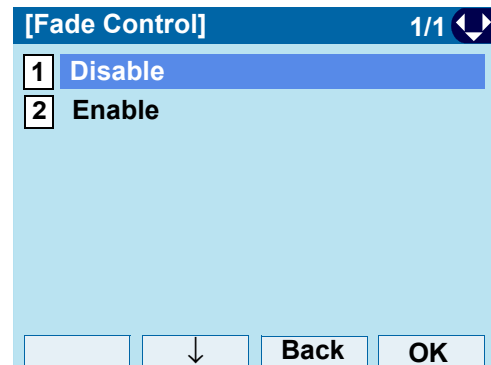
- STEP 4: Select **7 Advanced**.
 Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - Press **7**.



- STEP 5: Select **4 Backlight Fade Control**.
 Select an item by one of the following operations.
- Highlight an item by using , and press , or **OK**.
 - 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 , and press or **OK**.
 - Press **1** or **2**, and press or **OK**.

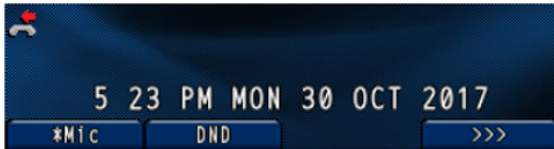


TIP | Default value is **Enable**.

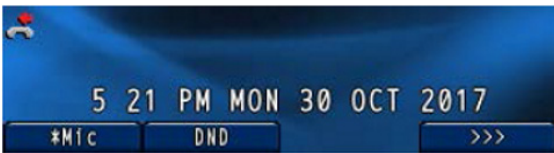
- **Set Home Frame (ITY-8LCGX-1 Only)**

The following explains how to set Home Frame.

[Enable]



[Disable]



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

STEP 2: Select **User Setting**.

STEP 3: Select **Display**.

STEP 4: **Select Advanced**.

STEP 5: Select **Home Frame**.

Choose either **Disable** or **Enable**.

- **Change Password**



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

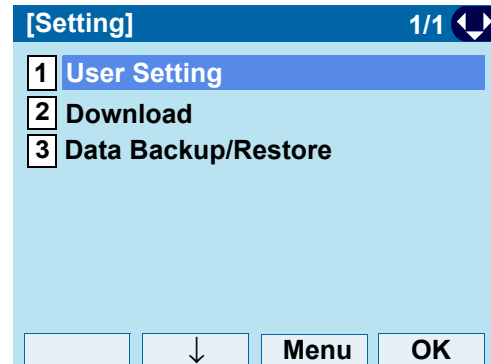
- To lock/unlock the telephone.
- To delete the directory data.
- To reset the telephone settings.




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

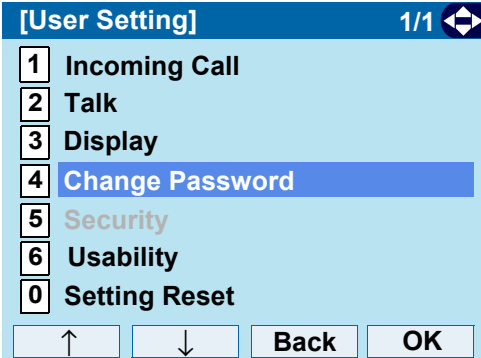
STEP 2: Select **1 User Setting**.

Select an item by one of the following operations.

- Highlight an item by using , and press , or **OK**.
- Press **1**.




- STEP 3: Select **4 Change Password**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **4**.

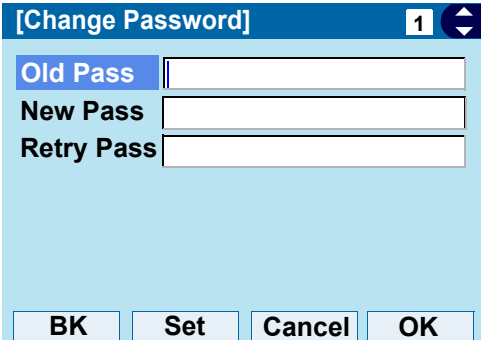


[User Setting] 1/1

- 1 Incoming Call
- 2 Talk
- 3 Display
- 4 Change Password
- 5 Security
- 6 Usability
- 0 Setting Reset

↑ ↓ Back OK

- STEP 4: Enter the old password.
 After entering the old password, press  or **Set**.



[Change Password] 1


Old Pass

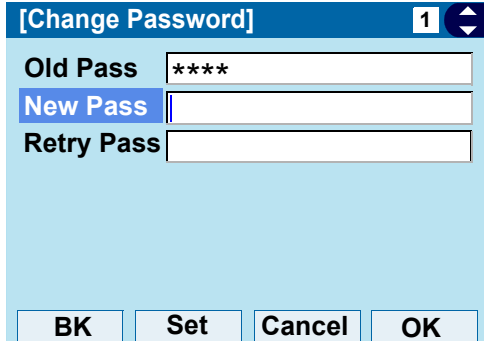
New Pass

Retry Pass

BK Set Cancel OK

Note: The default password is **0000**. When changing the password for the first time, enter **0000** as the old password.

- STEP 5: Enter the new password.
 After entering the new password, press  or **Set**.




[Change Password] 1

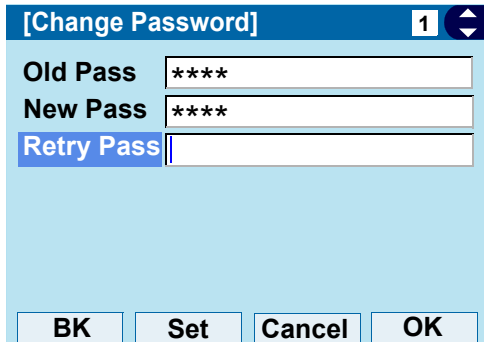
Old Pass

New Pass

Retry Pass

BK Set Cancel OK

- STEP 6: Enter the new password again.
 After entering the retry password, press  or **OK**.



[Change Password] 1

Old Pass

New Pass

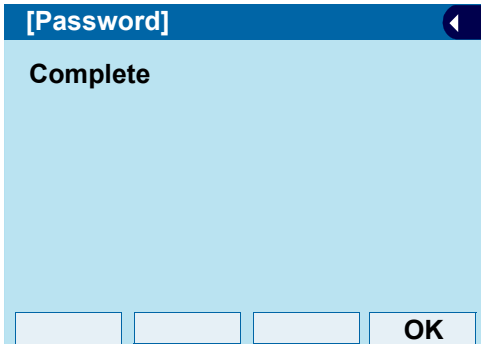
Retry Pass

BK Set Cancel OK

Note: A maximum of 32 digits (0-9, * and #) can be used when setting a new password.

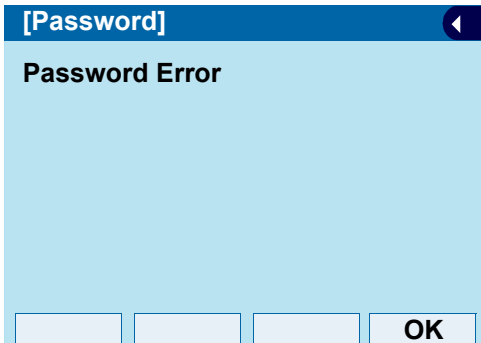
STEP 7: When the password entry completes successfully, the display changes as follows.

Press  or **OK**.



TIP

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






- **Set Usability**

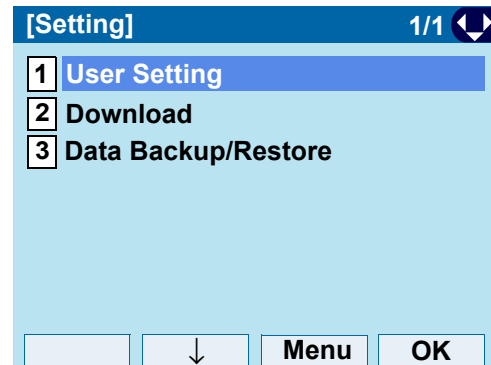
The procedure below shows how to set the operation of Help key while pop-up window is displayed.

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

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




Select an item by one of the following operations.

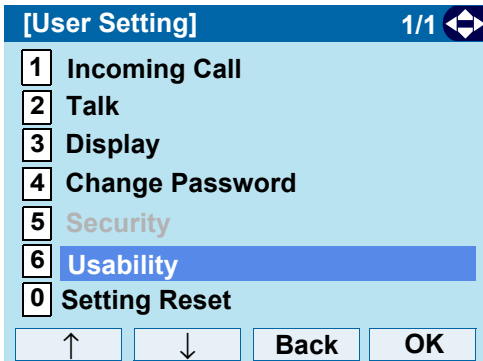
- Highlight an item by using , and press ,  or **OK**.
- Press **1**.



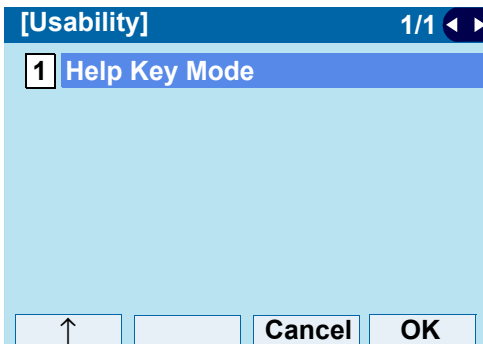
STEP 3: Select **6 Usability**.

Select an item by one of the following operations.

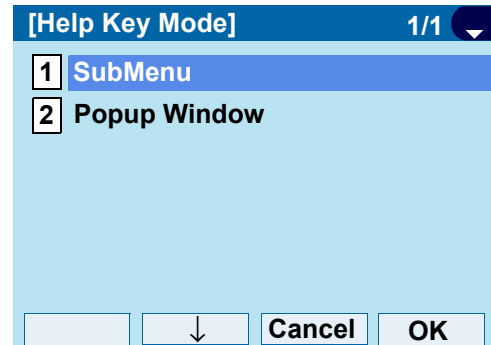
- Highlight an item by using , and press ,  or **OK**.
- Press **7**.



- STEP 4: Ensure **1 Help Key Mode** is specified.
 Select an item by one of the following operations.
- Press or **OK**.
 - Press **1**.



- STEP 5: Choose the desired **Help** key mode.
 Select an item by one of the following operations.
- Highlight an item by using , and press or **OK**.
 - Press **1** or **2**, and press or **OK**.



No.	Item	Description
1	SubMenu	Set the Help key which displays submenu.
2	Pop-up Window	Set the Help key which displays pop-up window.



• Reset Telephone Settings

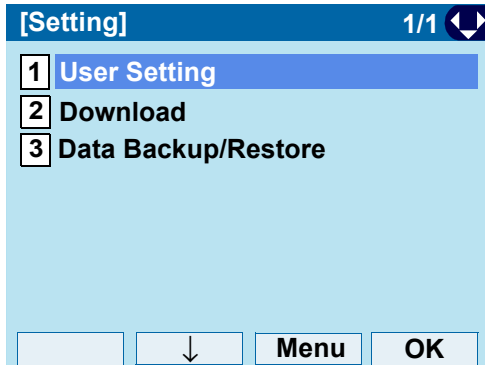
The following explains how to clear personal data off the telephone.

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

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



Select an item by one of the following operations.

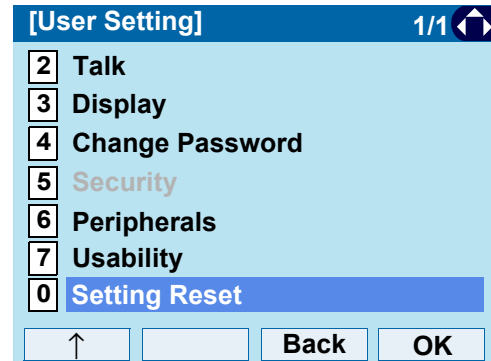
- Highlight an item by using , and press , or **OK**.
- Press **1**.



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

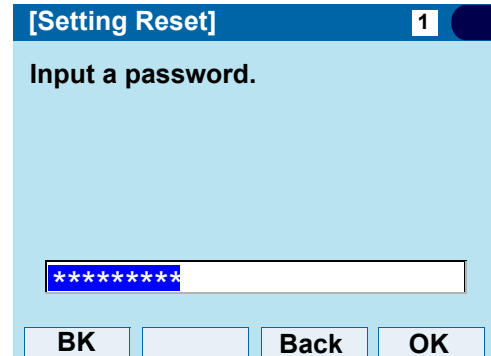
Select an item by one of the following operations.

- Highlight an item by using , and press , or **OK**.
- Press **0**.




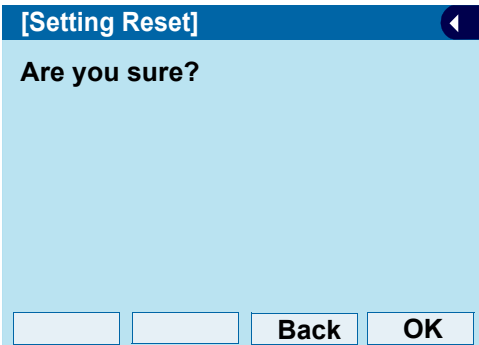
STEP 4: Enter the password.

After entering the password, press  or **OK**.



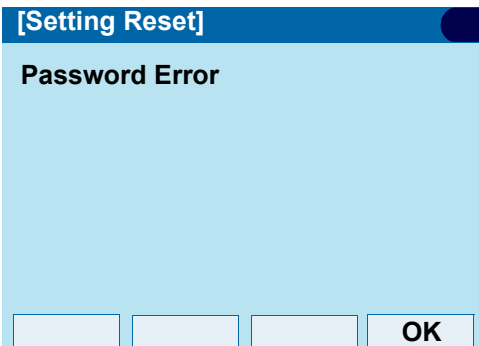
STEP 5: When the password entry completes successfully, the display changes as follows.

Press  or **OK** to clear the personal data off the telephone.



TIP

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



• **Download a File**

You can download files for Music on Hold, Ringer Tone, Directory and Wallpaper.

When downloading these files, the DT820 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 download, the IP Address of the FTP/TFTP/HTTPS Server must be entered from DT820.

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 specify it as the directory for downloading.

<HTTPS server>




Put the downloading file into a desired directory of the HTTPS server and specify the directory for downloading.

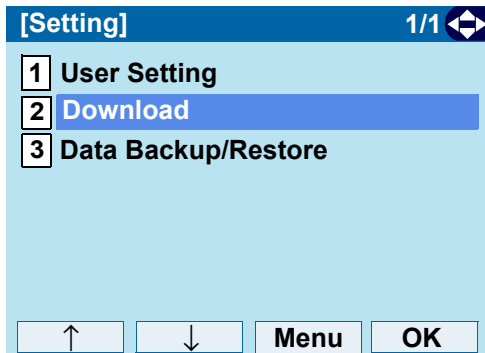
Note: Refer to the DT Resource Manual for HTTPS server.

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

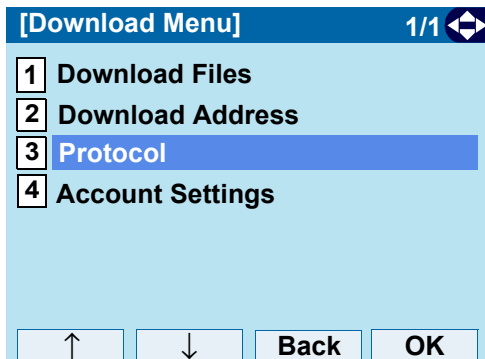
STEP 3: Select **2** **Download**.

Select an item by one of the following operations.

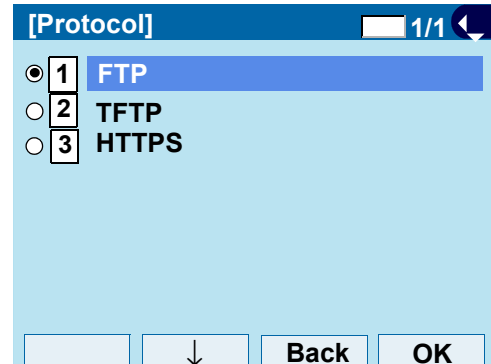
- Highlight an item by using , and press ,  or **OK**.
- Press **2**.



- STEP 4: Select **3 Protocol**.
 Select an item by one of the following operations.
- Highlight an item by using , and press or **OK**.
 - Press **3**.

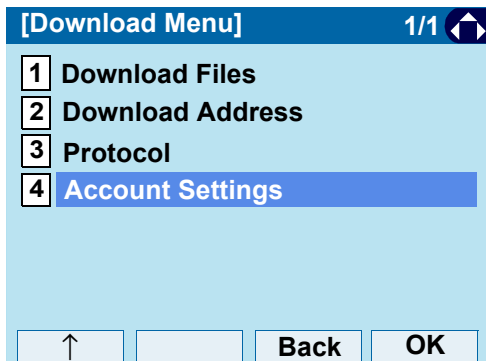


- STEP 5: Choose a protocol used by the server which stores the download file.
 Select an item by one of the following operations.
- Highlight an item by using , and press or **OK**.
 - Press **1**, **2** or **3**, and press or **OK**.

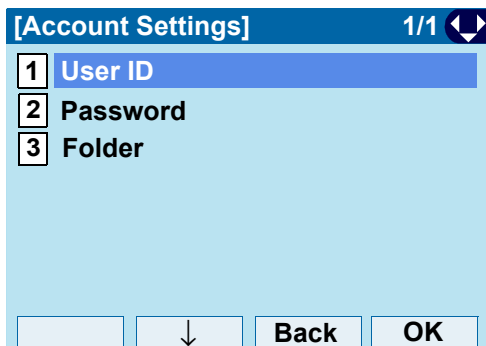


- STEP 6: The display returns to the **Download Menu** screen.
- If **1 FTP** is selected here, continue with STEP 7.
- If **2 TFTP** is selected here, proceed to [STEP 15](#).
- If **3 HTTPS** is selected here, proceed to [STEP 7](#).

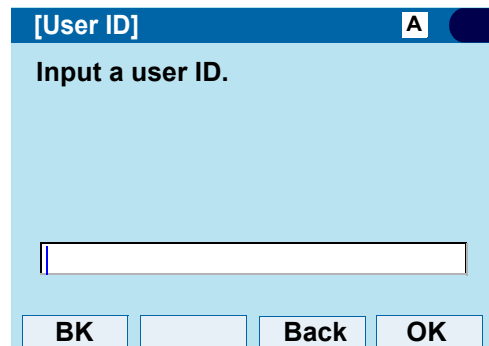
- STEP 7: Select **4 Account Settings**.
 Select an item by one of the following operations.
- Highlight an item by using , and press or **OK**.
 - Press **4**.



- STEP 8: Select **1 User ID**.
 Select an item by one of the following operations.
- Highlight an item by using , and press or **OK**.
 - Press **1**.

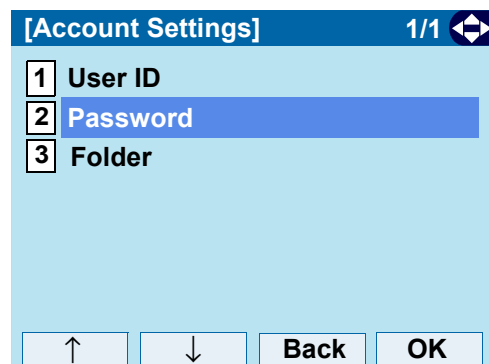


- STEP 9: Enter a **User ID**.
 Enter a User ID by pressing digit keys, and press or **OK**.




TIP For details on character entry method, see [How to Input Characters](#).

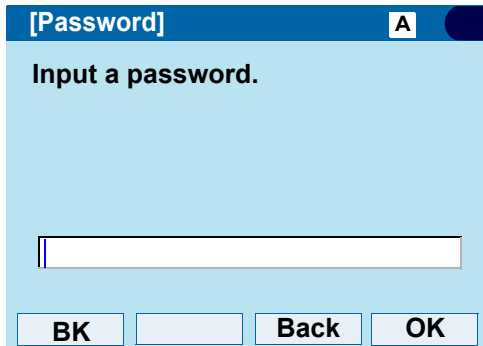
- STEP 10: The display returns to the **Account Settings** screen. Select **2 Password**.
 Select an item by one of the following operations.
- Highlight an item by using , and press or **OK**.
 - Press **2**.



STEP 11: Enter a password.

Enter a User ID by pressing digit keys, and press

 or **OK**.






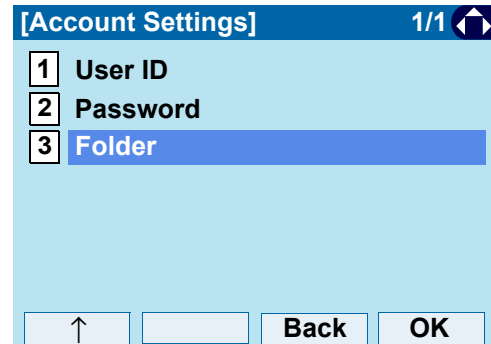
TIP

For details on character entry method, see [How to Input Characters](#).


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

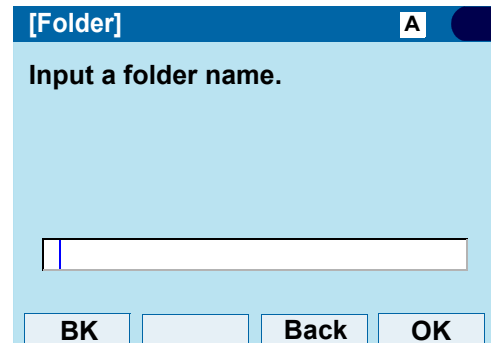
Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **3**.




STEP 13: Enter the directory where the download file is stored.

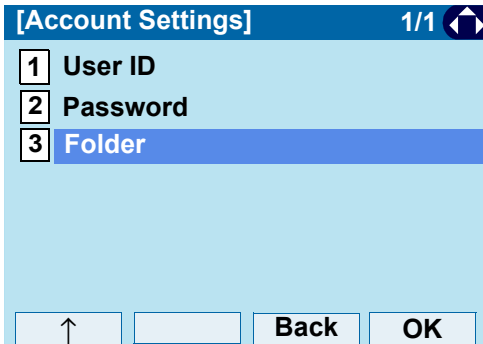
After entering the directory, press  or **OK**.






TIP

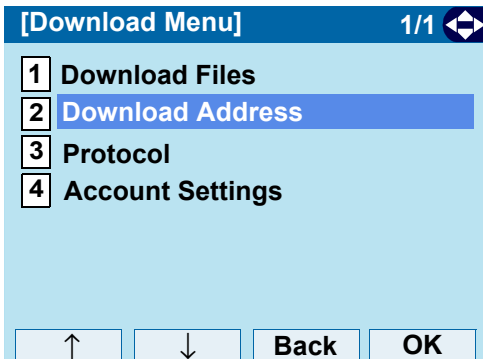
For details on character entry method, see [How to Input Characters](#).

STEP 14: The display returns to the **Account Settings** screen. Press  or **Back** to display the **Download Menu** screen.



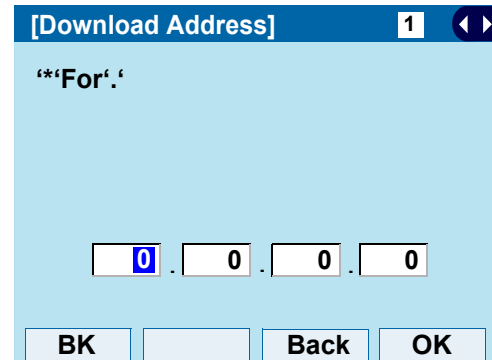
STEP 15: Select **2 Download Address**.
Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **2**.






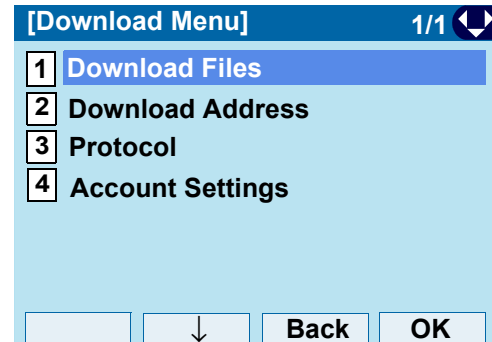
STEP 16: Enter an **IP address** of the FTP/TFTP/HTTPS server which stores the download file.

For example, to set the IP address of 10.41.208.205, enter 10*41*208*205 [separate with an asterisk (*)].



STEP 17: The display returns to the **Download Menu** screen. Select **1 Download Files**.
Select an item by one of the following operations.


- Highlight an item by using , and press ,  or **OK**.
- Press **1**.

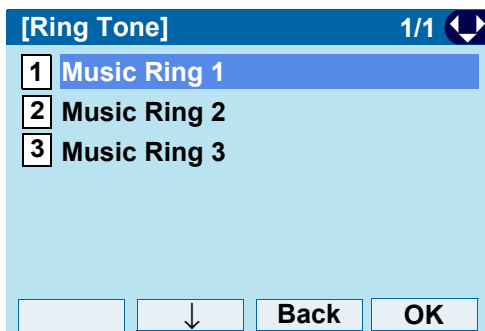


STEP 18: Select file to be downloaded.

When downloading a file for Music on Hold	Select 1 Hold Music and go to STEP 20 .
When downloading a file for ringer tone	Select 2 Ring Tone and go to STEP 19 .
When downloading a file for directory	Select 3 Directory and go to STEP 20 .
When downloading a file for Wallpaper	Select 4 Directory and go to STEP 20 .

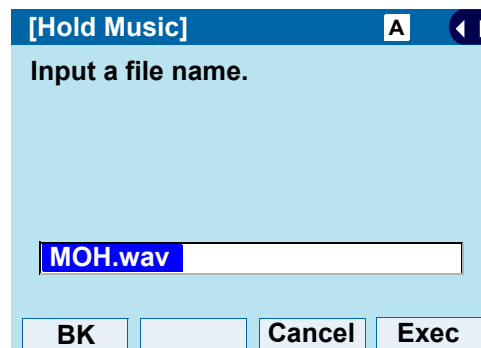
STEP 19: When **2** **Ring Tone** is selected at STEP 18, the following **Ring Tone** screen is displayed. Select either **1** **Music Ring 1**, **2** **Music Ring 2** or **3** **Music Ring 3**.
Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **1** - **3**.



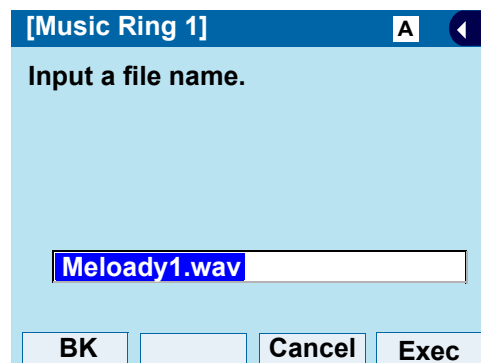
STEP 20: The default file name will be displayed.

When downloading a file for Music on Hold, the default file name is **MOH.wav**.



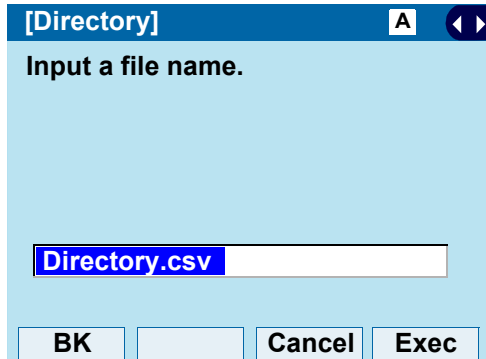
File Format	Maximum Size
PCM μ -law 8kHz/s wav.	under 32 seconds

When downloading a file for ringer tone, the default file name is **Melody1/2/3/.wav**.



File Format	Maximum Size
PCM μ -law 8kHz/s wav.	under 32 seconds

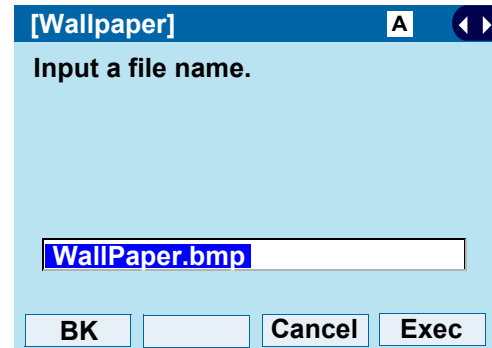
When downloading a file for Directory, the default file name is **Directory.csv**.



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

[ITY-8LCGX-1 Only]

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

[ITY-8LCGX-1 Only]

If changing the file name, continue with STEP 21.


If not changing the file name, proceed to [STEP 22](#).

STEP 21: Press **BK** once to delete the default file name and enter a new file name by using the digit keys.

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

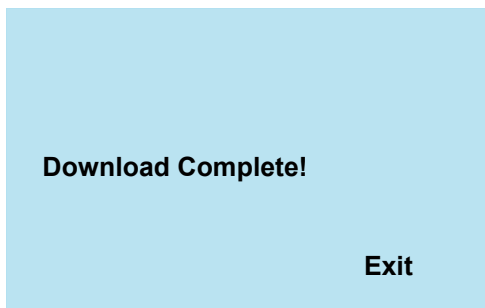
TIP For details on character entry method, see [How to Input Characters](#).

TIP To delete an entered character, press **BK**.

STEP 22: Press  or **Exec** to start the downloading process. While downloading a file, the LCD displays “Downloading...” first and “Saving...”.

Note: While “Saving...” is displayed on the LCD, do not to power OFF the DT820.

STEP 23: When the downloading process completes, the following is displayed.



STEP 24: The display returns to the **Download Files** screen upon **Exit**.

Note: When the downloading process ends in failure, **Downloading Failed!** is displayed on the LCD. Check the following and 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 DT820 and FTP/TFTP/HTTPS server.	Set the same file name from both DT820 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.

• Backup Personal Settings

You can backup personal settings of DT820 to FTP/TFTP/HTTPS server. To back up the setting data, the DT820 needs to be connected to the network that has FTP/TFTP/HTTPS server).

Note: For details on the XML service, contact the System Administrator.

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>

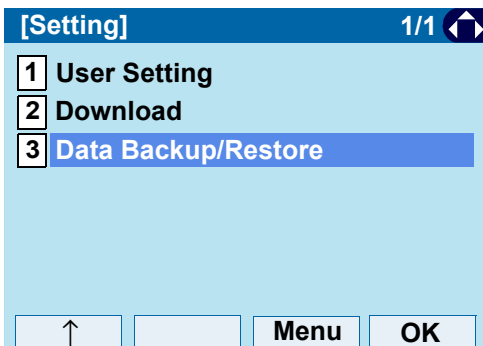
Specify a desired destination directory for the backed up file.




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

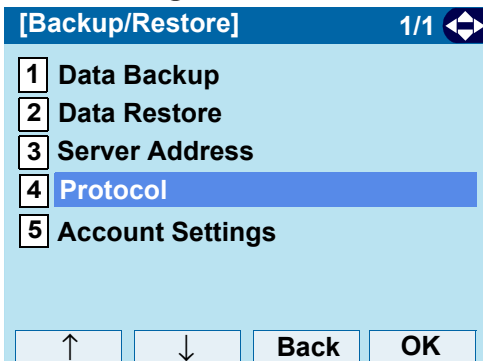
STEP 3: Select **3 Data Backup/Restore**.




Select an item by one of the following operations.

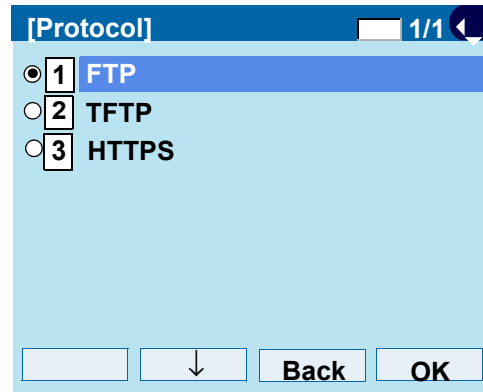
- Highlight an item by using , and press ,  or **OK**.
- Press **3**.






- STEP 4: Select **4 Protocol**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **4**.

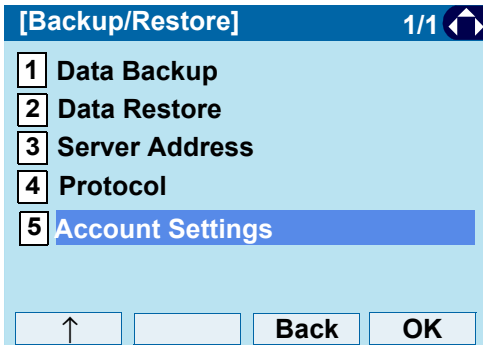





- STEP 5: Choose a protocol used by the destination server.
 Select an item by one of the following operations.
- Highlight an item by using , and press  or **OK**.
 - Press **1**, **2**, or **3** and press  or **OK**.

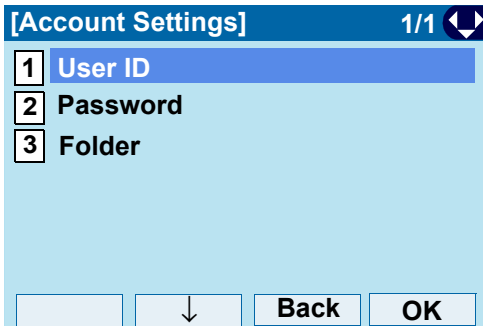



- STEP 6: The display returns to the **Backup/Restore** screen.
- If **1 FTP** is selected, continue to with STEP 7.
- If **2 TFTP** is selected, proceed to [STEP 15](#).
- If **3 HTTPS** is selected, proceed to [STEP 7](#).

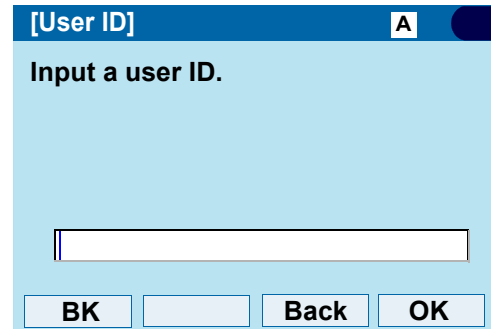
- STEP 7: Select **5 Account Settings**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **5**.






- STEP 8: Select **1 User ID**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **1**.

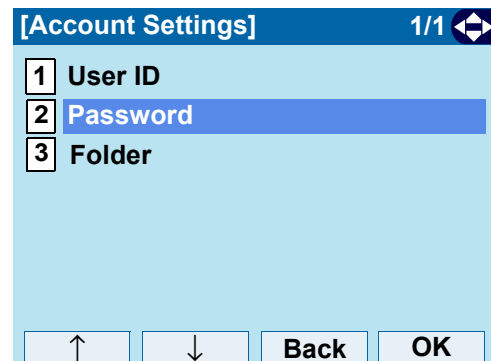



- STEP 9: Enter a **User ID**.
 Enter a User ID by using digit keys, then press  or **OK**.

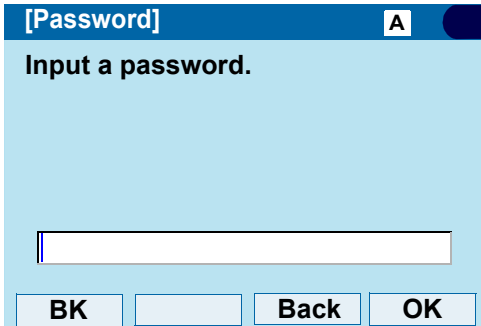



TIP For details on character entry method, see [How to Input Characters](#).

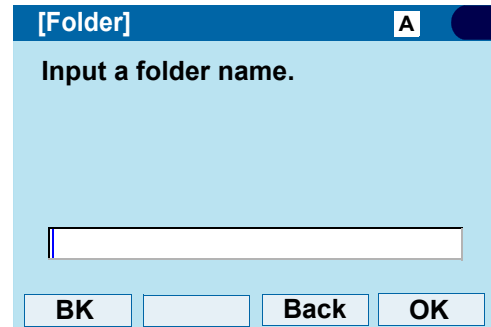
- STEP 10: The display returns to the **Account Settings** screen. Select **2 Password**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **2**.






STEP 11: Enter a password.
Enter a password by using digit keys, and press  or **OK**.

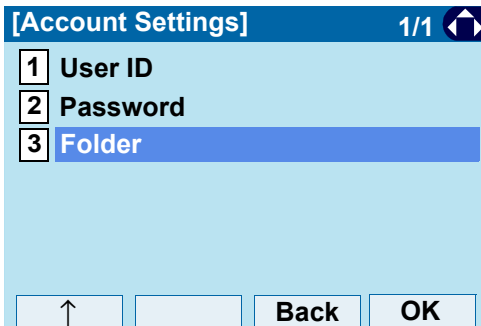


STEP 13: Enter the destination directory of the FTP/HTTPS server.
After entering the directory, press  or **OK**.




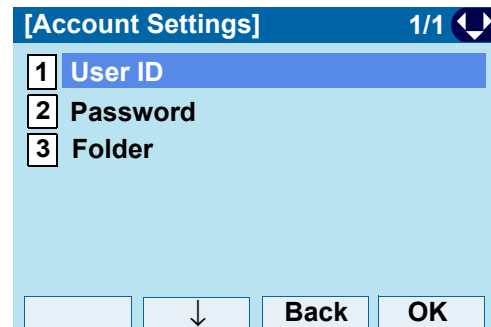
STEP 12: The display returns to the **Account Settings** screen. Select **3 Folder**.
Select an item by one of the following operations.




- Highlight an item by using , and press ,  or **OK**.
- Press **3**.

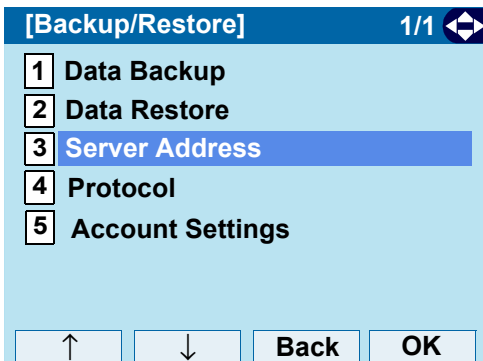


TIP For details on character entry method, see [How to Input Characters](#).

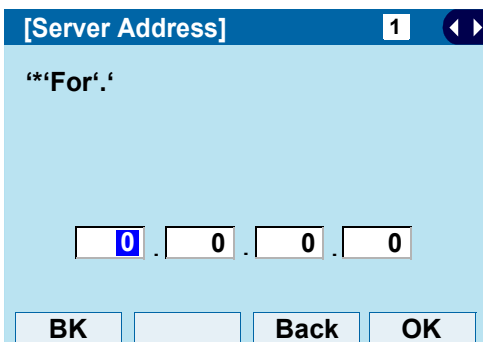
STEP 14: The display returns to the **Account Settings** screen. Press  or **Back** to display the **Backup/Restore** screen.






- STEP 15: Select **3 Server Address**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **3**.

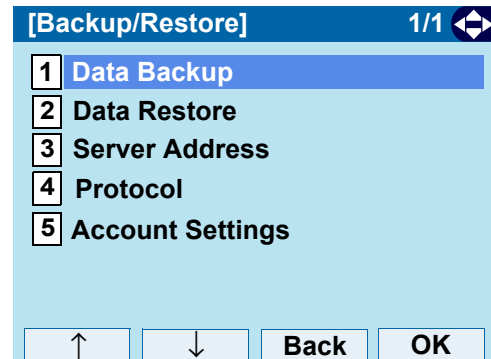


- STEP 16: Enter an **IP Address** of the destination FTP/TFTP/HTTPS server.
 For example, to set the IP address of 10.41.208.205, enter 10*41*208*205 [separate with an asterisk (*)].

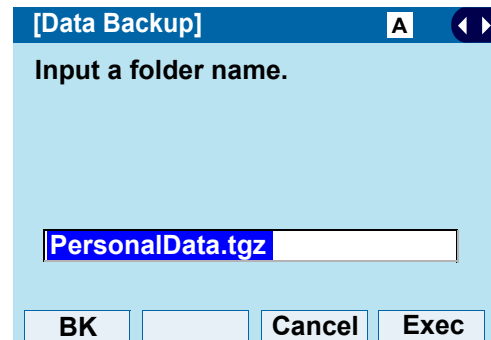


After entering an **IP Address**, press  (Enter) or **OK**.

- STEP 17: The display returns to the **Backup/Restore** screen. Select **1 Data Backup**.
 Select an item by one of the following operations.
- Highlight an item by using , and press ,  or **OK**.
 - Press **1**.



- STEP 18: 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: A maximum of 20 characters (“0-9”, “A-Z”, “a-z”, “*”, “#”, “.”, “-” or “_”) can be entered as a file name.

TIP


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

TIP

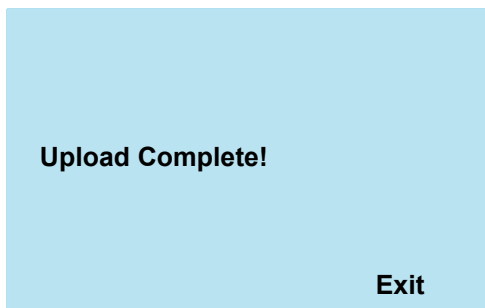
For details on character entry method, see [How to Input Characters](#).

TIP

To delete an entered character, press **BK**.

STEP 19: Press  or **Exec** to start the data backup.
While making a backup copy, the LCD displays “Uploading...”, and when the data backup completes, LCD displays **Upload Complete!**. If the data backup failed, LCD displays **Upload Failed!**.

STEP 20: After the data backup completes, the display changes to the following:



STEP 1: The display returns to the **Backup/Restore** screen upon **Exit**.

Note: When the data backup ends in failure, **Upload Failed!** is displayed on the LCD. Check the following and retry.

Check Points	Actions
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.

• Restore Personal Settings

User can restore the personal settings of DT820. To download the backup file to the telephone, the DT820 needs to be connected to the network that has FTP/TFTP/HTTPS.

Note: For details on the XML service, contact the System Administrator.

Before starting the download, the IP Address of the FTP/TFTP/HTTPS Server must be entered from DT820.

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 TFTP server and specify it as the directory for downloading.


<HTTPS server>

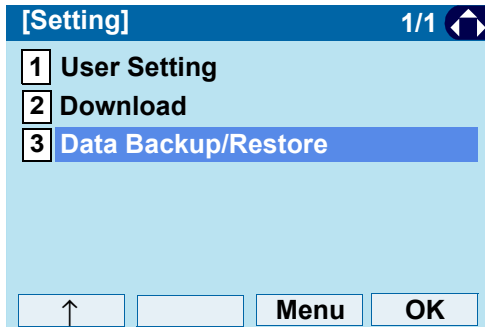
Put the backup file you want to restore into a desired directory of HTTPS server and specify it as the directory for downloading.

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

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




Select an item by one of the following operations.

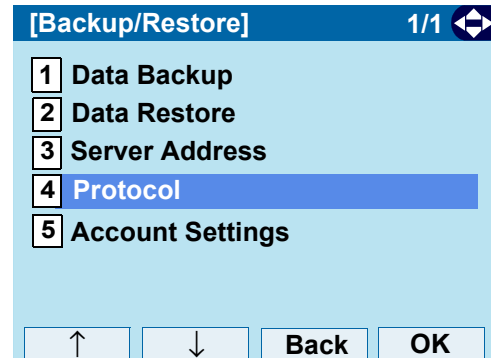
- Highlight an item by using , and press ,  or **OK**.
- Press **3**.



STEP 4: Select **4 Protocol**.




Select an item by one of the following operations.

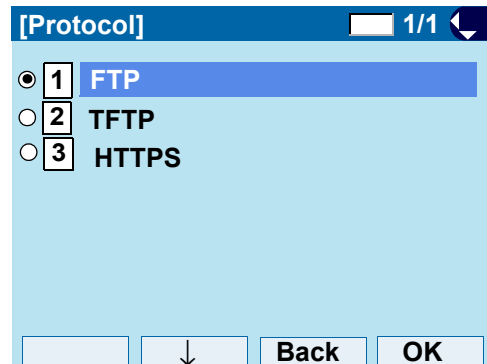
- Highlight an item by using , and press ,  or **OK**.
- Press **4**.



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

Select an item by one of the following operations.

- Highlight an item by using , and press  or **OK**.
- Press **1**, **2** or **3**, and press  or **OK**.



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


If **1** **FTP** is selected, continue with STEP 7.

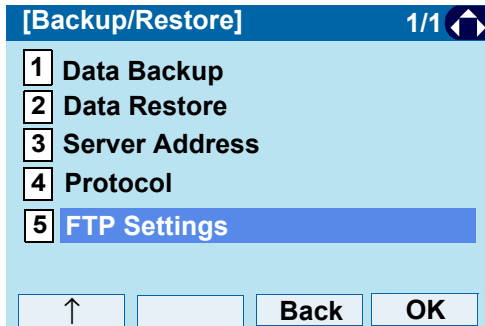
If **2** **TFTP** is selected, proceed to **STEP 15**.

If **3** **HTTPS** is selected, proceed to **STEP 7**.

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



Select an item by one of the following operations.

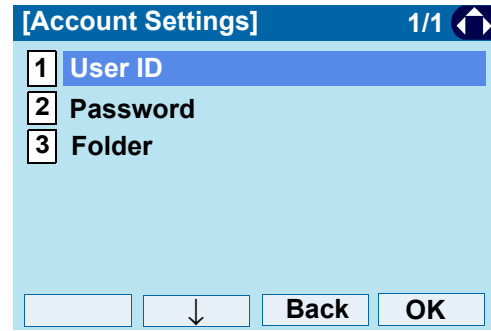
- Highlight an item by using , and press , or **OK**.
- Press **5**.




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

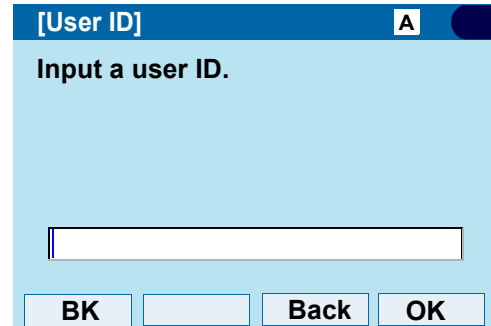
Select an item by one of the following operations.

- Highlight an item by using , and press , or **OK**.
- Press **1**.





STEP 9: Enter a **User ID**.

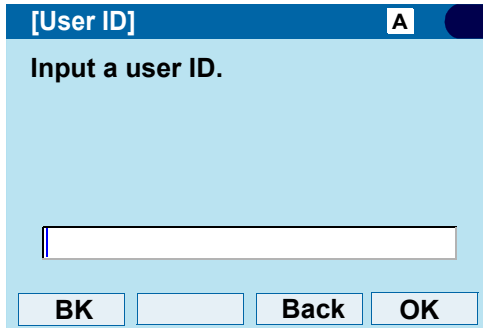
Enter a User ID by using digit keys, then press , or **OK**.




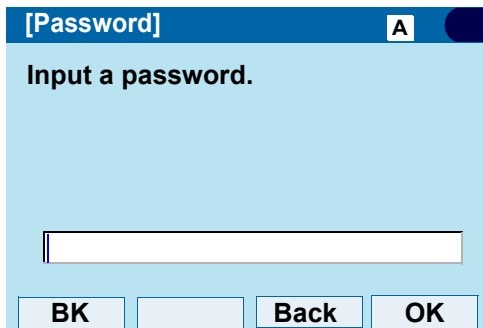
TIP For details on character entry method, see [How to Input Characters](#).

STEP 10: The display returns to the **Account Settings** screen. Select **2 Password**. Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **2**.





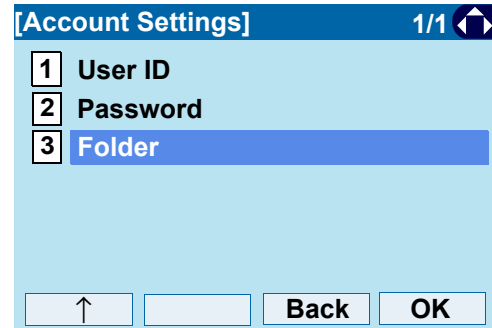
STEP 11: Enter a password. Enter a password by using digit keys, and press  or **OK**.




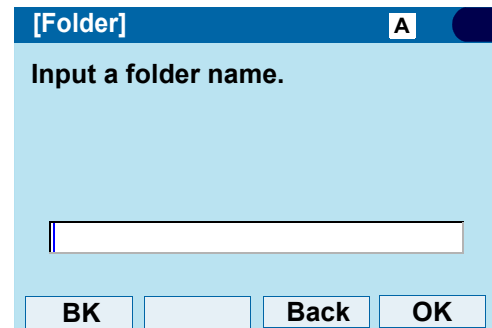
TIP For details on character entry method, see [How to Input Characters](#).

STEP 12: The display returns to the **Account Settings** screen. Select **3 Folder**. Select an item by one of the following operations.


- Highlight an item by using , and press ,  or **OK**.
- Press **3**.

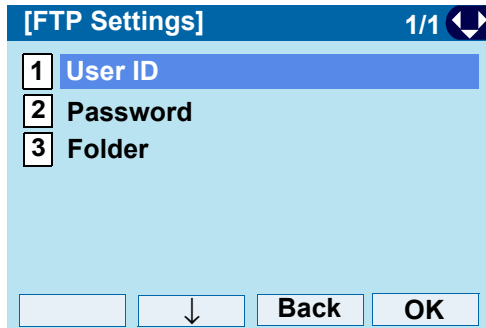


STEP 13: Enter the directory where the backup file is stored. Enter the directory and press  or **OK**.






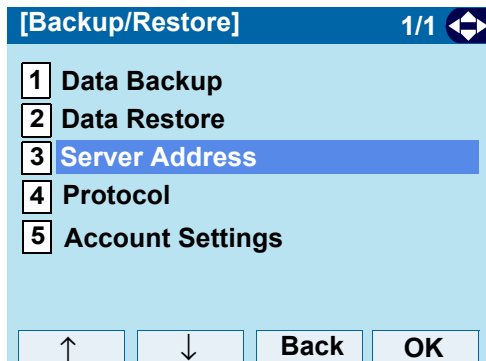
TIP For details on character entry method, see [How to Input Characters](#).

STEP 14: The display returns to the **Account Settings** screen. Press  or **Back** to display the **Backup/Restore** screen.

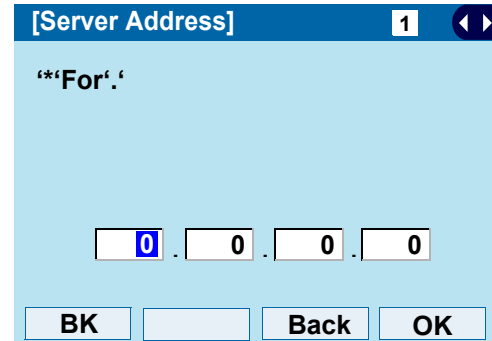



STEP 15: Select **3 Server Address**.
 Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **3**.






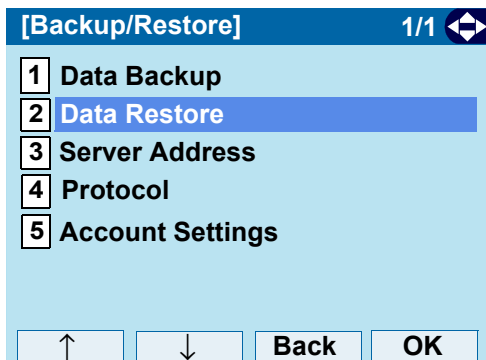
STEP 16: Enter an IP Address of the FTP/TFTP/HTTPS server which stores the backup file.
 For example, to set the IP address of 10.41.208.205, enter 10*41*208*205 [separate with an asterisk (*)].



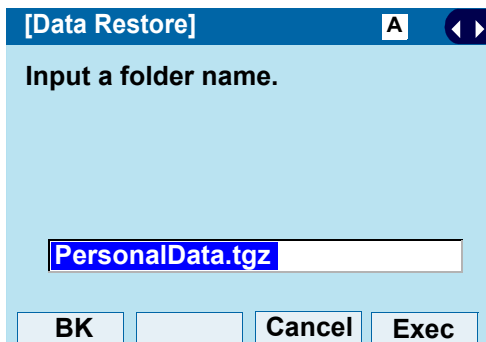
After entering an IP address, press  or **OK**.

STEP 17: The display returns to the **Backup/Restore** screen. Select **2 Data Restore**.
 Select an item by one of the following operations.

- Highlight an item by using , and press ,  or **OK**.
- Press **2**...



STEP 18: The default 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: A maximum of 20 characters (“0-9”, “A-Z”, “a-z”, “*”, “#”, “.”, “-” or “_”) can be entered as a file name.

TIP When changing the default file name, press **BK** once to delete the default file name and enter a new file name by using the digits keys.

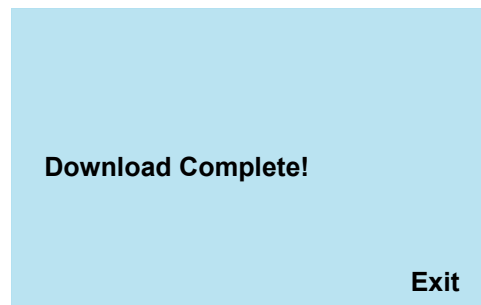
TIP For details on character entry method, see [How to Input Characters](#).

TIP To delete an entered character, press **BK**.

STEP 19: Press  or **Exec** to start restoring the backup data to the telephone. While downloading the backup data, the LCD displays “Downloading...” first and “Saving...”.

Note: Do not power OFF the DT820 while “Saving...” is displayed on the LCD.

STEP 20: After the download process completes, the display changes to the following:



3. BASIC OPERATION

Login

When login mode is activated, the following procedure is required.

1. Enter login code and press the **Set** softkey.

Login ID :	2000		
Password :			
Cancel	BK	Set	OK

2. Enter the password and press **OK** softkey.

Login ID :	2000		
Password :	*****		
Cancel	BK	Set	OK

If the login code is accepted, display changes to normal idle status.

28 APR MON 8:45AM			
101		STA 101	
List	Dir	VMsg	↓

Logout

1. Press the preassigned **Logout** Feature Key on the terminal.

Note: *This location is an example.*

Note: *Logout button is assigned by data setting at the ECP (Enterprise Communication Platform).*

28 APR MON 8:45AM			
101		STA 101	
List	Dir	VMsg	↓

2. “**LOGOUT?**” is displayed on the LCD of the terminal.

LOGOUT ?			
28 APR MON 8:45AM			
101		STA 101	
L-OUT			

3. Press the **Logout** Feature Key on the terminal again.

This page is for your notes.

4. FEATURE OPERATION

Answering Calls

Ringling Calls

1. Lift the handset.
2. Start conversation.

Note: *When assigning the Delayed Ringing feature, incoming calls will first ring at a primary station. If the call is unanswered after a preprogrammed time interval, calls will also ring at the assigned secondary station.*

Ringling Calls to a Second Incoming Extension/ CAR/VE Key

1. Lift the handset.
2. Start conversation.

Note 1: *A Second Incoming Extension key must be assigned to appear and ring.*

Note 2: *A Line key must be available to answer an incoming outside call*

2-11 MON 10:15AM TALKING TO STA 12345 Conf

Answering Outside Calls Using the Answer Key

1. Receive outside call.
2. Press the **Answer** key.
3. Talk with the incoming calling party.
4. When additional outside calls are received, press the Answer key to place the current call on hold and connect the multiline terminal user to the next call.

Line 001 Ringling List Dir VMsg ↓
--

Line 001 00:10 Answered Conf Rpt Save Trf

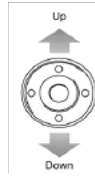
Voice Announce Calls

1. Adjust the **Speaker** volume as needed.

Note 1: On SV9100 if MIC key is not lit the user cannot answer voice announce calls without lifting the handset.

2. Respond hands free.

Note 2: The handset may be used any time during the conversation.



Camp-on (Call Waiting)

1. Receive the camp-on tone while on another call:
2. When a Camp On is set from another station, complete the present call and a Call Back will ring the station that set the Camp On.
3. When the Camp On station answers and rings the phone, lift the handset or press the **Speaker** key.

Off Hook Signaling

With a call in progress:

1. Receive Off-Hook signaling.
2. Press the **Answer** key, then converse with the second party.

2-11 MON 10:56AM
TALKING TO STA 12345
Conf Rpt Save Trf

Note 3: The second call may be placed on Hold.

Note 4: Press the flashing Line key or Conf key to return to the first call.

Placing Calls

Internal Calls

1. Lift the handset.
2. Dial a station number or 0 (for attendant).
3. Voice announce after the tone burst, or wait for the ringing call to be answered.

Outside Calls

1. Lift the handset.
2. Dial the trunk access code (i.e. 9).

-OR-

Press an idle Programmable Outside Line key.

3. Dial the telephone number.
4. Converse.

Line 001	00:15
	2142622000
Conf Rpt	Save Trf

Trunk Queuing

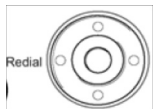
After pressing a busy Line key and receiving the trunk busy indication:

1. Dial # or press **Trunk Queuing/Camp On** key (Service Code 751:35).
2. Replace the handset.

Note: *When a line is available, your telephone will ring; lift the handset and place the call.*

Last CO/PBX Number Redial

1. Without lifting the handset, press the **Redial** key.



2. To redial the last number, press #.

-OR-

Search for the desired number from the Redial List by pressing the **List Softkey** and then the **Redial Softkey**.

3. Press the **Up Arrow/Down Arrow** or **VOLUME UP/VOLUME DOWN** keys to search for the desired number.
4. Lift the handset or press **Speaker** to place the call.

LIST MENU

Redial CID

Speed Dial – System/Group/Station

To dial a Station Speed Dial number:

1. Press the **Speaker** key.
2. Dial **#7** (default Service Code).

Note: *To preselect, press a Line key in step 1 (instead of Speaker).*

3. Dial the Station Speed Dial buffer number (0~9):

1 = Station Speed Dial buffer 1
2 = Station Speed Dial buffer 2
:
:
:
0 = Station Speed Dial buffer 10

Note 1: *The stored number dials out.*

Note 2: *Unless you preselect, Trunk Group Routing selects the trunk for the call. The system may optionally select a specific Trunk Group for the call.*

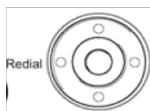
Note 3: *If you have a DSS Console, you may be able to press a DSS Console key to chain to a stored number.*

To dial a System Speed Dialing number:

1. Press the **Speaker** key.
2. Dial **#2** (default Service Code).

-OR-

3. Press the **Redial** key.



-OR-

Press the **System Speed Dialing** key (Service Code 751:27).

Note: *To preselect, press a Line key in step 1 (instead of pressing Speaker).*

4. Dial the Station Speed Dial buffer number (Default: 000~999).

The stored number dials out.

2-13 WED 5:28PM			
92142622000		NEC	
Conf	Rpt	Save	Trf

Note 1: *Initially (at default), there are 1000 System Speed Dial buffers.*

Note 2: *Unless you preselect, Trunk Group Routing selects the trunk for the call. The system may optionally select a specific Trunk Group for the call.*

Note 3: *If you have a DSS Console, you may be able to press a DSS Console key to chain to a stored number.*

To dial a Group Speed Dialing number:

1. Press the **Speaker** key.
2. Dial **#4** (default Service Code).

-OR-

Press the **Redial** key.

-OR-

Press the **Group Speed Dialing** key (Service Code 751:28).

Note: *To preselect, press a Line key in step 1 (instead of pressing Speaker).*

3. Dial the Group Speed Dial buffer number (none at default).

Note 1: *Initially, there are no Group Speed Dial buffers assigned.*

Note 2: *Unless you preselect, Trunk Group Routing selects the trunk for the call. The system may optionally select a specific Trunk Group for the call.*

Note 3: *If you have a DSS Console, you may be able to press a DSS Console key to chain to a stored number.*

Microphone Control

1. Press the **MIC** key.
2. A lit **MIC** LED indicates that the **MIC** is on.

Speakerphone Calls

1. Press the **Speaker** key and the Speaker LED lights.
2. Ensure that the **MIC** LED is lit.
3. Place an internal or outside call.
4. Converse.
5. Press the **Speaker** key to disconnect the call.

Note: *The handset may be used at any time during the conversation. To resume handsfree operation or to monitor a call, press the **Speaker** key (the Speaker LED lights) and replace the handset.*

Group Listen

To initiate Group Listen:

1. Place or answer a call using the handset.
2. Press the **Speaker** key twice (do not hang up).

Note 1: *The Speaker LED flashes.*

Note 2: *You can talk to the caller through the handset. Your coworkers hear your caller's voice over your telephone's speaker.*

Note 3: *When you press the **Speaker** key once, you turn your Speakerphone on. The second press turns on Group Listen. Pressing the **Speaker** key a third time cancels the Group Listen feature.*

2-13 WED 5:40PM
GROUP LISTEN
Conf Rpt Save Trf

Holding Calls

System Hold –

With a call in progress:

1. Press **Hold**.

Exclusive Hold –

With a call in progress:

1. Press the **Exclusive Hold** key (Service Code 751:45).

-OR-

Press the **Feature** key then **Hold** key.

Note 1: *To retrieve a held call, press the flashing Line key or ICM key (Internal calls).*

Note 2: *Calls on System Hold can be retrieved from any multiline terminal with the held line appearance.*

Note 3: *After a preprogrammed time, the held call will recall to the originating station.*

2-13 WED 5:40PM			
HOLD	STA 12345678		
VMsg	InPg	ExPg	↓

Transferring Calls

Using Manual Dial –

With a call in progress:

1. Press the **Transfer** key.

2. Dial the station number.
3. Announce the call (optional).
4. Replace the handset.

Using Direct Station Selection (DSS) –

With a call in progress:

1. Press the **Transfer** key.
2. Press the programmed DSS.
3. Announce the call (optional).
4. Replace the handset.

Note 1: *If the called station is busy, replace the handset to initiate a camp-on. Unanswered camp-on calls and unscreened transfers will recall to the transferring station.*

Note 2: *To return to the original party, press the flashing Line key or Conf key.*

Note 3: *A Programmable Function Key may be assigned for DSS.*

Note 4: *To transfer a call directly to a personal voice mailbox, dial 8 after dialing the station number.*

2-13 WED 5:40PM			
HOLD	STA 12345678		
VMsg	InPg	ExPg	↓

Conference

1. Establish an intercom or trunk call.
2. Press **Conf** or **Conference** softkey (Service Code 751:07).
3. Dial the extension you want to add.

-OR-

Access an outside call.

Note: *To get the outside call, you can either press a Line key or dial a trunk/trunk group access code.*

4. When the called party answers, press the **Add** softkey or **Conf** twice.

Note: *If you cannot add additional parties to your conference, you have exceeded the system's Conference limit.*

5. Repeat steps 2~4 above to add more parties.

2-11 MON 10:56AM TALKING TO STA 12345 Conf

ICM DIAL AnHd Dir	CONF
------------------------------------	-------------

Call Park – System

To Park a call in a system orbit:

Note: *You can Park intercom or trunk calls.*

1. Press the **Park** key (Service Code 752: *04 + orbit).

Note: *The Park key LED lights.*

2. Use Paging to announce the call.
3. Press the **Speaker** key to hang up.

Note: *If not picked up, the call will recall you.*

-OR-

1. Press the **Transfer** key.
2. Dial **#6** and the Park orbit (01~64).

Note: *If you hear a busy tone, the orbit is busy. Try another orbit.*

3. Use Paging to announce the call.
4. Press the **Speaker** key to hang up.

Note: *If not picked up, the call will recall you.*

PARK HOLD Park No. Dial
--

To pick up a Parked call:

1. Lift the handset.
2. Press the **Park** key (Service Code 752: *04 + orbit).

-OR-

1. Press the **Speaker** key.
2. Dial *6 and the Park orbit (01~64).

ANS HOLD

Park No. Dial

Station Busy/No Answer Options

Callback

To place a callback:

1. Call an unavailable (busy or unanswered) extension.
2. Dial # or press the **Callback** key (Service Code 751:35).
3. Hang up.
4. Lift the handset when the busy extension calls you back.

Note 1: *If the unavailable extension was unanswered (not busy), the Callback goes through after your co-worker uses their telephone for the first time.*

Note 2: *If you have Callback Automatic Answer, you automatically place a call to the formerly busy extension when you lift the handset. If you do not have Callback Automatic Answer, you must press the ringing line appearance to place the call.*

To cancel a Callback:

1. Press the idle **Speaker** key and dial 770.

-OR-

Press the **Camp-On** key (Service Code 751:35).

2-14 THU 3:15PM
CAMP-ON STA 12345678

Message Waiting

To leave a Message Waiting:

1. Call a busy or unanswered extension.
2. Dial **0** or press the **Message Waiting** key (Service Code 751:38).
3. Hang up.

2-14 THU 3:15PM MSG >>> STA 12345678
--

To answer a Message Waiting:

Note: *When you have a message, your Message Waiting LED flashes.*

1. Press the **Speaker** key and dial ***0**.

-OR-

Press the **MW softkey** or **Message Waiting** key (Service Code 751:38).

2-14 THU 3:15PM 12345678 STA 12345678 MW Menu
--

MW from STA 12345678 Call Cncl

Note: *If the called extension does not answer, dial 0 or press your Message Waiting key to automatically leave a message.*

To cancel all your Messages Waiting:

Note: *This includes messages you have left for other extensions and messages other extensions have left for you.*

1. Press the **Speaker** key.
2. Dial **773**.
3. Hang up.

-OR-

Press the **Cncl Softkey**.

To cancel the Messages Waiting you have left at a specific extension:

1. Press the **Speaker** key.
2. Dial **771**.
3. Dial the number of the extension you do not want to have your messages.
4. Hang up.

Tone Override

To send off hook signals to an extension busy on a call:

Note: *Your extension may send off hook signals automatically.*

1. Dial *.

-OR-

Dial **709**.

2. Press the **Off Hook Signaling** key (Service Code 751:33).

Note 1: *You hear Ring Busy Tone.*

Note 2: *The called extension hears Call Alert Notification.*

To answer Tone Override:

1. Receive Tone Override.
2. Press the **Hold** key and talk with the party.

<p>2-14 THU 3:15PM CALLING STA 12345678 Conf</p>

Department Step Call

To make a Step Call:

1. Place a call to a busy Department Group member.

-OR-

Place a call to a Department Group pilot number.

2. Dial Department Step Code (2) to call the next available Department Group member.
3. Repeat step 2 to call other Department Group members.

Voice Over

To initiate a Voice Over to a busy extension:

1. Press the **Voice Over** key (Service Code 751:48).

-OR-

Dial **6**.

Note: *You hear an alert tone and the Voice Over key flashes. You can talk to the called party after the alert tone ends.*

To respond to a Voice Over alert tone to your extension:

Note: *You can only respond if you have a **Voice Over** key.*

1. Press the **Voice Over** key (Service Code 751:48).

Note: *The Voice Over key lights steadily (green) and you can talk to the interrupting party.*

To return to your original call:

STEP 1: Press the **Voice Over** key.

Note 1: *Your Voice Over key flashes red when you are talking to your original call.*

CO/PBX Dialing Options

Save Number Dialed

To save the outside number you just dialed (up to 24 digits).

Note: *Use this feature before hanging up.*

1. Press the Save Number Dialed key (Service Code 751:30).

To redial a saved number:

1. Press an idle trunk line key.

Note: *This selects a specific trunk for the call.*

2. Press the **Save Number Dialed** key (Service Code 751:30).

PREVIEW	SAVED NUMBER
	123456
List	Dir VMsg ↓

Note: *The stored number dials out.*

-OR-

1. Press the **Speaker** key.

2. Dial **715**.

Note 1: *Save Number Dialed automatically selects a trunk from the same group as your original call.*

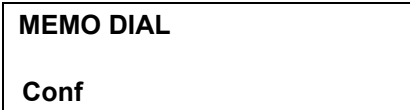
Note 2: *The stored number dials out.*

Memo Dial

To store a number while you are on a call:

1. While on a call, press the **Memo Dial** key (Service Code 751:31).
2. Dial the number you want to store.
3. Press the **Memo Dial** key again and continue with the conversation.

To call a stored Memo Dial number:



1. Do not lift the handset.
2. Press the **Memo Dial** key (Service Code 751:31).
3. Press the **Speaker** key.

-OR-

Press a configured Line key.

Note: *The stored number dials out.*

To check to see the stored Memo Dial number:

1. Do not lift the handset.
2. Press the **Memo Dial** key (Service Code 751:31).

Note: *The stored number displays.*

3. Press **Exit** to return to the main LCD screen.

To cancel (erase) a stored Memo Dial number:

1. Press the **Speaker** key.
2. Press the **Memo Dial** key (Service Code 751:31).

Repeat Redial

To use Repeat Redial (if the outside party you call is unavailable or busy):

1. Place a trunk call.

Note: *Listen for busy tone or Ring-No Answer.*

2. Press the **Feature + Redial** keys.

-OR-

Press the **Repeat Redial** key (Service Code 751:29).

Note: *The Repeat Redial key lights while you wait for the system to redial.*

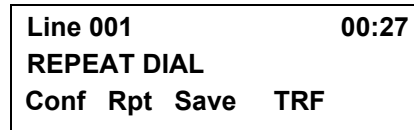
3. Press the **Speaker** key to hang up.

Note 1: *The system periodically redials the call.*

Note 2: *System programming determines the waiting time and the number of redial attempts.*

4. Lift the handset when the called party answers.

Note: *When using trunks with answer supervision, the Repeat Redial feature automatically cancels.*



To Cancel Repeat Redial:

1. Press the **Feature** key.
2. Press the **Redial** key.

-OR-

Press the Repeat Redial key (Service Code 751:29).

2-14 THU 3:15PM			
CANCEL REPEAT DIAL			
List	Dir	VMsg	↓

Caller ID

Answer

Receive incoming ringing or a transferred outside call:

1. Review the telephone display for the calling party's name or number.
2. Answer the call accordingly.

Temporary Memory

An unanswered call will cause the **Call History** key (Service Code 751:08) to flash, indicating a new call has been placed in the temporary memory. If enabled in programming, the telephone's display will show: "**Check List**".

01:		2142622000
	↑	4-28 1:59
	↓	Store DEL

1. Press the **Call History** key (Service Code 751:08) or press the **LIST** Softkey and CID.

LIST MENU

Redial CID

Note: *The last addition to the list is displayed.*

2. Press the **Arrow Down** Softkey to scroll through the list of numbers in memory.
3. Press the **DEL** Softkey to delete the entry and scroll to the next entry.
4. The **Call History** key will remain on as long as entries remain in memory.
5. To place a call back to a number in the temporary memory list, with the number to be dialed displayed, press a Line or the **Speaker** key.

Note: *The outgoing call is placed.*

Line 001			
12345678			
Conf	Rpt	Save	Trf

Call Pickup

Group Call Pickup

To answer a call ringing another telephone in your Pickup Group:

1. Pick up the handset or press the **Speaker** key.
2. Press the **Group Call Pickup** key (Service Code 751:24).

-OR-

Dial **756** or ***#**.

Note: *Service Code *# can pick up any call in the group, plus any Ring Group calls. Service Code 756 cannot pick up Ring Group calls.*

2-14 THU 4:32PM CALL P/U STA 8765432 Conf

To answer a call ringing a telephone in another Pickup Group when you do not know the group number:

1. Pick up the handset or press the **Speaker** key.
2. Press the **Group Call Pickup** key (Service Code 751:25).

-OR-

Dial **769**.

To answer a call ringing a telephone in another Pickup Group when you know the Group Number:

1. Pick up the handset or press the **Speaker** key.
2. Press the **Group Call Pickup** key (Service Code 751:26 + group).

-OR-

Dial **768** and the group number (0~9 or 00~64).

2-14 THU 4:32PM GROUP No.
--

Directed Call Pickup

To use Directed Call Pickup to intercept a call to a coworker's extension:

1. Pick up the handset or press the **Speaker** key.
2. Dial **.
3. Dial the number of extension whose call you want to intercept.

Note: *If more than one call is coming in, the system sets the priority for which call it answers first.*

2-14 THU 4:32PM ICM DIAL 12345678

2-14 THU 4:20PM TALKING TO STA 12345678 Conf

Paging

To make an Internal Page announcement:

1. Press the zone's **Internal Paging** key [Service Code 751:21, 01~64 for zones (00 for All Call)], or 22 for internal all call paging]

-OR-

1. Press the **Speaker** key or lift the handset.
2. Dial **701** and the Paging Zone number (0~9 or 00~64).

Note: *Dialing 0 or 00 calls All Call Internal Paging.*

3. Dial ***1** and the Combined Paging Group code 1~8 or 0 (for Internal/External All Call).

Note: *The display indicates the Combined Paging as an External Page.*

Note: *If the Internal Page Zone is busy or if there are no extensions in a page group, the page will be announced as an External Page only.*

2-14 THU 4:32PM GROUP No.
--

2-14 THU 4:32PM PAGE EXT GROUP

4. Make an announcement.

5. Press the **Speaker** key to hang up.

To Page an External Zone:

1. Press the **External Paging** key (Service Code 751:19 for External Paging zones or 20 for External All Call Paging).
2. Make the announcement.

-OR-

1. Press the **Speaker** key or pick up the handset.

-OR-

2. Dial **703** and the External Paging Zone code (1~8 or 0 for All Call).

<p>2-14 THU 4:20PM ZONE</p>

<p>2-14 THU 4:20PM PAGE EXT Group</p>

-OR-

Dial *1 and the Combined Paging Group code (1~8 or 0 for Internal/External All Call).

Note: *The display indicates the Combined Paging as an External Page.*

Note: *If the Internal Page Zone is busy or if there are no extensions in a page group, the page will be announced as an External Page only.*

3. Make the announcement.

Meet Me Answer

To join a Meet Me Internal Page:

1. Press the **Speaker** key or pick up the handset.
2. Dial **763** (if your extension is in the zone called).

-OR-

Dial **764** and the zone number (if your extension is not in the zone called).

-OR-

Press the **Meet Me Conference/Paging Pickup** key (Service Code 751:23) if your extension is in the zone called.

Note: *You connect to the other party.*

To join a Meet Me External Page:

1. Press the **Speaker** key or pick up the handset.
2. Dial **765**.
3. Dial the announced External Paging Zone (0~8).

Note: *You connect to the other party.*

Background Music

To turn Background Music on or off:

1. Press the **Speaker** key.
2. Dial **725**.
3. Press the **Speaker** key to hang up.

2-14 THU 4:20PM
B.G.M. ON

Call Forwarding

All Calls (CF/A)

To set Call Forward – Immediate at a forwarding station:

1. Pick up the handset or press the **Speaker** key.
2. Dial the **Call Forward – Immediate Service Code** (default: 741).

-OR-

Press the **Call Forwarding Programmable Function Key** (Service Code 751:10).

SET FORWARD
1:SET 0:CANCEL

3. Dial **1** (Set)

SET FORWARD
NOT SET

4. Dial the destination extension or off-premise number.

SET FORWARD
92142622000

5. Press the Speaker key or hang up.

Note: *Your Call Forwarding Programmable Function Key lights.*

To cancel Call Forward – Immediate at a forwarding station:

1. Pick up the handset or press the **Speaker** key.
2. Dial the **Call Forward – Immediate Service Code** (default: 741).

-OR-

Press the **Call Forwarding Programmable Function Key** (Service Code 751:10).

3. Dial **0**.
4. Press the **Speaker** key or hang up.

Note: *Your Call Forwarding Programmable Function Key goes off.*

Call Forwarding Busy/No Answer (B/NA)

To set Call Forward – Busy/No Answer at a forwarding station:

1. Pick up the handset or press the **Speaker** key.
2. Dial the **Call Forward – Busy/No Answer Service Code** (default: 744).

-OR-

Press the **Call Forwarding Programmable Function Key** (Service Code 751:13).

SET BUSY/NO ANSWER 1:SET 0:CANCEL
--

3. Dial **1** (Set).
4. Dial the destination extension or off-premise number.

SET BUSY/NO ANSWER 12345678
--

5. Press the **Speaker** key or hang up.

To cancel Call Forward – Busy/No Answer at a forwarding station:

1. Pick up the handset or press the **Speaker** key.
2. Dial the **Call Forward – Busy/No Answer Service Code** (default: 744).

-OR-

Press the **Call Forwarding Programmable Function Key** (Service Code 751:13).

3. Dial **0** (Cancel).
4. Press the **Speaker** key or hang up.

To set Call Forward – Both Ring at a forwarding station:

1. Pick up the handset or press the **Speaker** key.
2. Dial the **Call Forward – Both Ring Service Code** (default: 745).

-OR-

Press the **Call Forwarding Programmable Function Key** (Service Code 751:14).

3. Dial **1** (Set).
4. Dial the destination extension number.

SET DUAL RING 12345678

5. Press the **Speaker** key, or hang up.

To cancel Call Forward – Both Ring at a forwarding station:

1. Pick up the handset or press the **Speaker** key.
2. Dial the **Call Forward – Both Ring Service Code** (default: 745).

-OR-

Press the **Call Forwarding Programmable Function Key** (Service Code 751:14).

3. Dial **0** (Cancel).
4. Press the **Speaker** key or hang up.

Selectable Display Messaging

To select a message:

1. Press the **Speaker** key.
2. Press the **Text Message** key (Service Code 751:18 + 01~20).

IN MEETING UNTIL 08:48			
STA 12345678			
List	Dir	VMsg	↓

3. Use **VOL UP** or **VOL DOWN** keys to scroll through the messages.
4. For messages 1~8 and 10, enter digits to append the message, if needed.

Note: *You can append messages 1~8 and 10 with digits (e.g. the time when you get back). You enter the time in 24-hour format.*

No.	Message	Change “#” to:
1	IN MEETING UNTIL ##:##	Time (when meeting is done)
2	MEETING ROOM - #####	Room name or extension
3	COME BACK ##:##	Time (when returning)
4	PLEASE CALL #####	11 digits (Tel. No.)
5	BUSY CALL AFTER ##:##	Time (when returning)
6	OUT FOR LUNCH BACK ##:##	Time (when returning)
7	BUSINESS TRIP BACK ##:##	Date (when returning)
8	BUSINESS TRIP #####	10 digits (where reached)
9	GONE FOR THE DAY	
10	ON VACATION UNTIL ##:##	Date (when returning)
11~20	MESSAGE 11~20	

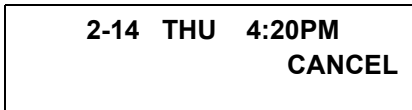
5. Press **Speaker** to hang up.

Note: *Intercom calls to extensions with Selectable Display Messaging set will receive a DND signal and receive the display message on their telephone’s display instead of ringing the display.*

Note: *To allow calls to ring through and have the message displayed on the calling extension's display, cancel DND by pressing the DND key + 0 (DND key (Service Code 751: Code 03).*

To cancel a message:

1. Press the **Speaker** key.
2. Press the **Text Message** key (Service Code 751:18+).
3. Press Speaker to hang up.



Station Relocation

To exchange two terminals:

1. Pick up the handset or press the **Speaker** key.
2. Dial the **Extension Data Swap Service Code** – not assigned at default.
3. Dial the **Extension Data Swap Password** – not assigned at default.
4. Dial the extension to be swapped with or relocated to.
5. When successfully completed, a confirmation tone will be heard and the display will show “completed”.

6. Press the **Speaker** key twice.

Code Restriction, Dial Block

To set Dial Block:

1. Press the **Speaker** key.
2. Dial **600** (default).
3. Dial the **4-digit Dial Block Code** (user defined).
4. Dial **1**.

Note: *The confirmation tone is heard.*

5. Press the **Speaker** key to hang up.

To release Dial Block:

1. Press the **Speaker** key.
2. Dial **600**.
3. Dial the **4-Digit Block Code**.
4. Dial **0**.

Note: *The confirmation tone is heard.*

5. Press the **Speaker** key to hang up.

Note: *At default, Dial Block restriction Class per Extension is denied.*

Account Code Entry

To enter an Account Code any time while on a trunk call:

The outside caller cannot hear the Account Code digits you enter. You can use this procedure if your system has Optional Account Codes enabled. You may also be able to use this procedure for incoming calls.

1. Dial *.

-OR-

Press your **Account Code** key
(Service Code 751:Code 50).

2. Dial your Account Code (1~16 digits, using 0~9 and #).

Line 001 ENTER ACCOUNT CODE Conf Rpt Save Trf
--

Note: *If Account Codes are hidden, each digit you dial shows as a "*" character on the telephone's display.*

3. Dial *.

-OR-

Press your **Account Code** key
(Service Code 751:Code 50).

To enter an Account Code before dialing the outside number:

If your system has Forced Account Codes, you must use this procedure. If it has Verified Account Codes, you can use this procedure instead of letting the system prompt you for your Account Code. You may also use this procedure if your system has Optional Account Codes. If your system has Verified Account Codes enabled, be sure to choose a code programmed into your Verified Account Code list.

1. Access trunk for outside call.

Note: *You can access a trunk by pressing a Line key or dialing a code (except 9).*

2. Dial *.

-OR-

Press your **Account Code** key (Service Code 751:Code 50).

3. Dial your Account Code (1~16 digits, using 0~9 and #).

Note: *If you make an incorrect entry, your system may automatically alert the operator. If Account Codes are hidden, each digit you dial will show as a "*" character on the telephone's display.*

- STEP 4: Dial *.

-OR-

5. Dial the number you want to call.

Note: *If you hear “stutter” dial tone after dial the number, ARS is requesting that you enter an Automatic Route Selection Authorization Code.*

Automatic Call Distribution (ACD)

Agent Log In

To log in:

1. Press the **ACD LOG IN/LOG OUT** key (Service Code 752: *10).

-OR-

Press the **Speaker** key and dial the Log In Service Code (Default *5).

2. Dial the log in code (up to 20 digits).

Note: *This step is not required if the ID code is disabled.*

Display before Agent login

WAIT ACD LOGIN	G:01
12345678	STA 12345678
List	Dir
VMsg	↓

Display after Agent login

GROUP No: 01	
12345678	STA 12345678

Agent Log Out Display

ACD LOGOUT? (1:Yes; 0:No)
--

AIC Agent Log In

To log in:

1. Press the **ACD LOG IN/LOG OUT** key (Service Code 752: *10).

-OR-

Press the **Speaker** key and dial the **AIC Log In** service code – not assigned at default.

2. Dial the log in code (up to 20 digits).

Note: *This step is not required if the ID code is disabled.*

3. Dial the **Agent Identity Code** (AIC – up to four digits).

INPUT AIC			
List	Dir	VMsg	↓

Note: *The ACD LOG IN/LOG OUT key lights.*

Display before Agent login

2-15 FRI 11:02PM			
12345678		STA 12345678	
List	Dir	VMsg	↓

Display after Agent login

2-15 FRI 11:02PM			
12345678		LOGIN	
List	Dir	VMsg	↓

Multiple AIC Agent Log In

To log in:

1. Press the **ACD LOG IN/LOG OUT** key (Service Code 752: *10).

-OR-

Press the **Speaker** key and dial the **AIC Log In** service code -not assigned at default.

2. Dial **0** to cancel the log out option.
3. Dial the **Agent Identity Code** (AIC) (up to four digits).

Note: *The ACD LOG IN/LOG OUT key lights.*

4. Repeat steps 3 and 4, if more log ins are required.

To log out (for single or multiple agent AIC log In):

Note: *All AIC log in become logged out.*

1. Press the **ACD LOG IN/LOG OUT** key (Service Code 752: *10) + 1 to accept.
2. Press the **Speaker** key and dial the **AIC Log In** service code – not assigned at default.

Note: *The ACD LOG IN/LOG OUT key goes out.*

Rest Mode

To set the manual Rest Mode:

1. From an idle state, press the **ACD Rest Mode** key (Service Code 752: *13).

Note: *The ACD Rest Mode key lights. If the Rest Mode key is pressed while the agent is on an active call, the key will flash until the agent hangs up.*

Note: *This operation is not available for the System Supervisor.*

Group No: 01			
12345678		OFF DUTY	
List	Dir	VMsg	↓

To cancel the manual Rest Mode:

1. Press the **ACD Rest Mode** key (Service Code 752: *13).

Note: *The ACD Rest Mode key light goes off.*

Queue Status Display

When Logged Into ACD Group:

1. From an idle state, press the **Queue Status Display** key (Service Code 752: *19).

Group No: 01			
0-----		00:05	
List	Dir	VMsg	↓

Note: *The display indicates the number of calls in queue, the trunk name, and the length of time the call has been waiting.*

Note: *When the Queue Status Display key is pressed, the queue status of the extension's group is displayed. When the extension is not in an ACD group, the Queue Status of group 1 is displayed instead.*

Note: *When an agent logs in using an AIC code, the Queue Status of the default ACD group is displayed.*

2. Press **Volume Up** and **Volume Down** to scroll through the Queue Status Displays of all the ACD Groups.
3. Press the **CLEAR** key to return the telephone to an idle state.

When Logged Out of ACD Group:

When ACD agents are logged out and a call is placed into the ACD queue, the telephones of the logged out agents will display the Queue Status and hear the alarm according to the settings defined in system programming.

Pressing the Queue Status Display key will return the telephone to idle until the timer expires again.

Answering a Call Using a Headset

1. Press the **Headset** key to answer.
2. Converse.
3. Press the **Headset** key to hang up.

Using the Headset with Automatic Answer for ACD Agents:

1. With the multiline terminal in an idle state, press the **Feature** key.
2. Press the **HEADSET** key (Service Code 751: 05).

Note: *The Headset key blinks when Automatic Headset is activated.*

Note: *To cancel Automatic Headset, repeat these steps.*

Station Speed Dial – Dial Access

To store a Station Speed Dialing number (display telephones only):

1. Press the **Speaker** key.
2. Dial **755**.

3. Dial the Station Speed Dial buffer number to be programmed (0~9).

1 = Station Speed Dial buffer 1
 2 = Station Speed Dial buffer 2
 0 = Station Speed Dial buffer 10

4. Dial the **Access Code** (e.g., 9) – if required.

5. Dial telephone number you want to store (up to 24 digits).

Note: *Valid entries are 0~9, # and *. To enter a pause, press **MIC**. To store a Flash, press **Recall**.*

6. Press **Hold**.

7. Enter the name associated with the Speed Dialing number (display telephones only):

Use this keypad digit....	Key for Entering Names When you want to....
1	Enter characters: 1 @ [¥] ^ _ ` { } Æ ¨ Á À Â Ã Ä Ç È É Ê Ì Í
2	Enter characters: A-C, a-c 2
3	Enter characters: D-F, d-f, 3
4	Enter characters: G-I, g-l, 4
5	Enter characters: J-L, j-l, 5
6	Enter characters: M-O, m-o, 6
7	Enter characters: P-S, p-s, 7
8	Enter characters: T-V, t-v, 8
9	Enter characters: W-Z, w-z, 9
0	Enter characters: 0 ! “ # \$ % & ’ () ô õ ú ü ä ö ü á â ã è
*	Enter characters: + , - . / : ; < = > ? B E ó S ç £
#	# = Accepts an entry (only required if two letters on the same key are needed – ex: TOM). Pressing # again = Space.
Conf	Clears all the entries from the point of the flashing cursor and to the right (used when entering the Name).
Exit	Clears all the entries from the point of the flashing cursor and to the right (used when entering the Number, this clears both the number and name).

8. Press **Hold**.
9. Press the **Speaker** key to hang up.

Line Keys/Programmable Function Keys

The following functions can be assigned to Line Keys if allowed by Class of Service.

To Program a Line key as a Programmable Function Key:

1. Press the **Speaker** key.
2. Dial Service Code **751**.
3. Press the **Line Key** to be programmed.
4. Dial the code for the desired feature plus additional data if required.
5. Press **Speaker** to hang up.

Note 1: *Service Code 00 will erase the function from the key.*

Note 2: *In some cases, the **Hold** key needs to be pressed before pressing the **Speaker** key.*

Function Number	Function	Additional Data
00	Not Defined	
01	DSS / One-Touch	Extension number or any numbers (up to 24 digits). Press HOLD to write.
02	Microphone Key (ON/OFF)	
03	DND Key	
04	BGM (ON/OFF)	
05	Headset	
06	Transfer Key	
07	Conference Key	
08	Incoming Call Log	
09	Day/Night Mode Switch	Mode Number (1-8)
10	Call Forward – Immediate	
11	Call Forward- Busy	
12	Call Forward – No Answer	
13	Call Forward – Busy/No Answer	
14	Call Forward – Both ring	
15	Follow Me	
16	--Not Used--	
17	--Not Used--	
18	Text Message Setup	Message Numbers (01-20)

Function Number	Function	Additional Data
19	External Group Paging	External Paging Number (1-8)
20	External All Call Paging	
21	Internal Group Paging	Internal Paging Number (01-64)
22	Internal All Call Paging	
23	Meet-Me Answer to Internal Paging	
24	Call Pickup	
25	Call Pickup for Another Group	
26	Call Pickup for Specified Group	Call Pickup Group Number
27	Speed Dial – Common / Private	Speed Dial Number (Common / Private)
28	Speed Dial –Group	Speed Dial number (Group)
29	Repeat Redial	
30	Saved Number Redial	
31	Memo Dial	
32	Meet – Me Conference	
33	Override (Off-Hook Signaling)	
34	Barge – In	
35	Camp On	
36	Step Call	

Function Number	Function	Additional Data
37	DND / FWD Override Call	
38	Message Waiting	
39	Room Monitoring	
40	Handset Transmission Cutoff	
41	Secretary Call (Buzzer)	Extension Number
42	Secretary Call (Manager)	Extension Number
43	Series Call	
44	Common Hold	
45	Exclusive	
46	Department Group Log Out	
47	Reverse Voice over	Extension Number
48	Voice Over	Extension Number
49	Call Redirect	Extension Number or Voice Mail Number
50	Account Code	
51	General Purpose Relay	Relay No (0, 1-8)
52	Incoming Call Queuing Message Setup	
53	Queuing Message Starting	
54	External Call Forward by Door Phone	

Function Number	Function	Additional Data
55	Change Extension Name	
56	General Purpose LED Operation	
57	General Purpose LED Indication	
58	Automatic Transfer to Department Group Call	Extension Group Number (1-8 or 01-64)
59	Delayed Transfer to Department Group Call	Extension Group Number (1-8 or 01-64)
60	DND transfer to Department Group Call	Extension Group Number (1-8 or 01-64)
61	--Not Used--	
62	Flash Key	
63	Outgoing Call Without Caller ID (ISDN)	
64	--Not Used--	
65	--Not Used--	
66	--Not Used--	
67	--Not Used--	
68	--Not Used--	
69	--Not Used--	
70	--Not Used--	
71	--Not Used--	
72	Keypad Facility Key	
73	Keypad Hold Key	

Function Number	Function	Additional Data
74	Keypad RETRIEVE Key	
75	Keypad Conference Key	
76	Application Key	
77	Voice Mail (In-Skin)	Extension Number or Pilot Number
78	In-Skin Conversation Recording	
79	In-Skin Automated Attendant	Extension Number or Pilot Number
80	Tandem Ringing	1=Set 0=Cancel Extension Number to Tandem Ring
81	Automatic Transfer to Transfer Key	Trunk Line No. (001-200)
82	--Not Used--	
83	Conversation Recording Function (VMSU)	0=Pause 1=Re-recording 2=Address 3=Erase 4=Urgent Page
84	Drop Key	
85	Directory Dialing	
86	Private Call Refuse	
87	Caller ID Refuse	
88	DID Mode Switching	
89	Do-Not-Call Setup	
90	Do-Not-Call Registration	

Function Number	Function	Additional Data
91	Live Monitoring Key	
94	Call Attendant	
97	Doorphone Access	

This page is for your notes.

5. DIRECTORY OPERATION

This chapter explains about the Directory function of DT Series telephones. By using the Directory function, you can make a call with a simple operation.

Directory function can register up to 500 records. The user can add/view/edit/delete these records.

- [Add New Data](#)
- [Find Registered Data](#)
- [Make a Call From Directory](#)
- [Delete All Directory Data](#)
- [Delete Specific Directory Data](#)

Add New Data

1. Press soft key, then **Prog->TELBK**. The menu screen is displayed in LCD.

Note: *The Feature key can be used to backspace and delete a character.*

```
1: REGIST      2: SEARCH
3: SETTING    4: DeleteAll
1:           2:       3:       4:
```

2. Select Name or Telephone Number by using Alpha or Num softkey to toggle between the two.

```
TLBK1: INPUT NAME      [A]
      <
NUM ← →
```

3. Enter a name or telephone number to be registered in the directory using the dial pad.
4. After entering the name or telephone, press the **Hold** key.
5. The following list appears. Select a desired group by entering a number.

```
TLBK1: SELECT GROUP
1: Group 01  2: Group 02
3: Group 03  4: Group 04
```

6. Enter the telephone number as indicated in the display and press the **Hold** key.

```
TLBK1: INPUT NUMBER
NEC
2142622000
```

7. Enter a desired Memory ID.

```
TLBK1: REGIST MEMORY      >000
[ 0 - 499]
```

8. After entering the Memory ID, the display goes back to the main directory screen. Press exit to go back to the main screen.

Find Registered Data

1. Press soft key, then **Prog->TELBK**.

```

1. REGIST    2: SEARCH
3. SETTING  4: DeleteAll
   1:        2:        3:        4:
    
```

2. Select **MENU** to search.

```

TLBK1: SEARCH NAME      [A]
      <
NUM   MENU
    
```

Note: *The display will show No TELBK Data if there are no entries to review.*

3. Select a search method from the following list.

```

[SEARCH MENU]

NAME    GRP    NUM    MEM
    
```

Search Method	Description
1. Name	Search data from the name list registered in the directory.
2. Group	Display the lists registered to each group (01~20 groups).
3. Tel Number	Search data from the telephone number list registered in the directory.
4. Memory ID	Search data from the memory number registered in the directory.

4. The following is an example when NAME, GRP, NUM, and MEM are selected as a search.

```

NAME
TLBK1: SEARCH NAME      [A]
      <
NUM  MENU      ←      →

GRP
TLBK1: SEARCH GROUP
1: Group 01    2: Group 02
3: Group 03    4: Group 04

NUM
TLBK1: SEARCH NUMBER
MENU      <

MEM
TLBK1: SEARCH MEMORY
MENU      >
          [0 - 499]
    
```

Make a Call From Directory

5. Display the detailed data for a target party (see [Find Registered Data](#)).

```
[SEARCH MENU]
NAME   GRP   NUM   MEM
```

The following display is an example of dial by name.

```
[1 ]   NEC
2132622000
   CHG   DEL.   Dial
```

6. Lift the **Handset**, press **Speaker** or press the **Dial** softkey while displaying the detailed data for target party on LCD.

Note: *If multiple telephone numbers are assigned into a target party, a call is made to the first telephone number.*

Delete All Directory Data

1. Display the main directory screen.

```
1: REGIST  2: SEARCH
3: SETTING 4: DeleteAll
   1:      2:      3:      4:
```

2. To delete all the registered data, press the **Enter** Key or **4:** Softkey to delete all the data.

Below is a sample display of a deleted number.

```
TLBK1: DELETE ALL DATA
INPUT PWD: 4DIGIT
```

3. After 4-digit password is entered (Default = 0000), the display asks if you want to delete all the Directory data. To delete, press **Yes**.
4. After the appropriate Directory data is deleted, the display changes as follows:

```
DELETED ALL TELBOOK DATA
```

Delete Specific Directory Data

1. Display the detailed data for a target party (see [Find Registered Data](#)).
2. Press **Menu** Key. The display changes as follows:

```
[SEARCH MENU]
Name   GRP   NUM   MEM
```

Select a search method to be deleted. Select one by using the Cursor key or Softkey. The example below displays a specific group deleted. Select Group 01.

```
1: NEC
2142622000
```

3. Select 1: NEC.

```
[1 ] NEC
2142622000
CHG  DEL.  Dial
```

4. Press the DEL Softkey to delete the appropriate Directory data.

5. After the appropriate Directory data is deleted, the following display appears:

```
TLBK1: DELETE DATA
DELETE DATA?
                        Yes   No
```

6. The following confirmation message appears.

```
DELETE COMPLETE!
```

This page is for your notes.

6. CALL HISTORY OPERATION

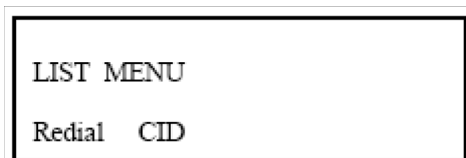
This chapter explains the Call History function of DT Series telephones. By using the Call History function, you can make a call with a simple operation.

The Incoming Call History can register up to 50 records.
The Outgoing Call History can register up to 10 records.

- [View Call History](#)
- [Make a Call From Call History](#)
- [Store Call History Data to Speed Dial](#)
- [Delete Call History Data](#)

View Call History

1. Press soft key, then **List**.



In this example, **1. CID** is selected.

2. The detailed information of the last call is displayed.

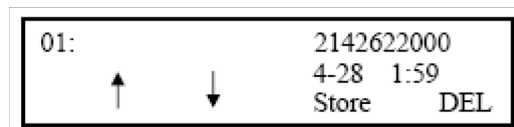


Note: Use the Cursor key to display the next/former records.

Note: If no history data is saved, "No LND LIST " will be displayed on LCD.

Make a Call From Call History

1. Display the Call History data of the target telephone number referring to Make a Call from Call History. The following is an example when the history of Caller ID is displayed.

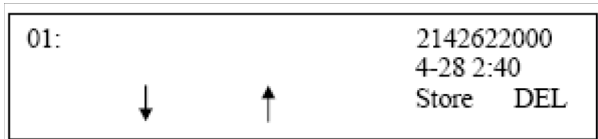


2. Lift the handset or press the **Speaker** key while displaying the call history information for the target telephone number on the LCD.

Note: While the call history data is displayed, the user cannot make a call by dialing a telephone number.

Store Call History Data to Speed Dial

1. Display the Call History data of the target telephone number (see [Make a Call From Call History](#)). The following is an example when the history of a call is displayed.



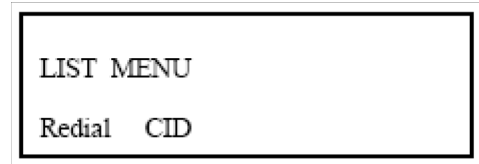
2. Press the **Store Softkey** while displaying the call history information for the target telephone number. The display changes as follows:



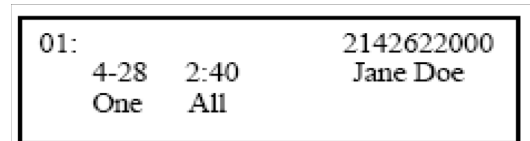
3. Select **STA** to store in a Speed Dial bin or select **Abb** to store in a System Speed Dial bin. Select **TELBK** to store in a Telephone Book.

Delete Call History Data

1. Press soft key, then **List**. The menu screen is displayed in the LCD.



2. Select **CID** Softkey.
3. Select **DEL** Softkey.
4. Select **One** to delete a single call or **All** to delete all call history.



This page is for your notes.

UNIVERGE[®] SV9100

DT820 User Guide

*NEC Enterprise Communication Technologies, Inc.
Issue 3.0*