



The purpose of this manual is to give a user the right way to use a GDC-400H wireless terminal and its accessories. This manual lists the matters that a user has to avoid for right use and explains the features of the wireless terminal as a terminal of ipLDK-24/100/300/300E systems. The features which are explained in this manual describe the user-interface for ipLDK series DECT key system of local sale. Also it illustrates the specifications of the terminal and its accessories. The wireless terminal, GDC-400H (GAP), is designed and manufactured for interface with ipLDK series DECT key system and LG-Nortel doesn't guarantee inter-operability between any other GAP system and GDC-400H (GAP). *Please, refer to 'ipLDK System Installation Manual' about applicable peripheral items.*

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Important Safety Information

Read this information before using your phone. Failure to comply with these guidelines could prove either dangerous or illegal. This information helps avoid damage to the phone, personal injury, or property damage.

This section provides various safety guidelines.

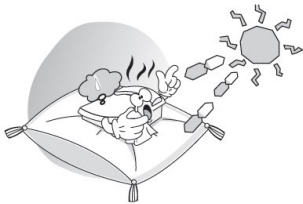


After reading user guide, retain it for next use.

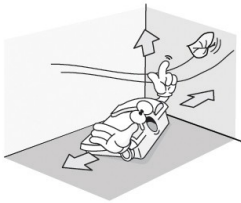
● About Installation and Using Environment



According to manual, install the phone. If not, it may not work or life span diminish.



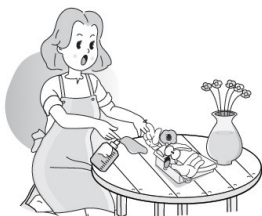
Do not install in the place where shine on the rays of the sun or on the carpet or cushion. It may be a cause of fire or breakdown.



Do not install in the ill-ventilated place such as desk or etc. It may be a cause of fire or breakdown.



Do not install near a bath, kitchen table, humidifier, rice cooker, wind and rain or damp area. It may be a cause of an electric shock, fire, breakdown or transformation.

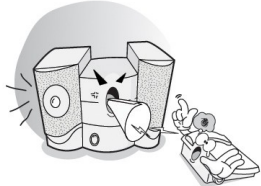


Do not put things near phone as flower vase, flowerpot, cup, cosmetics, medicine or water. It may be a cause of fire or electric shock.

Important Safety Information



Do not put the phone on shaking shelves or slant place. It may drop and broke down or get hurt.



Do not install the phone near appliance such as tv, refrigerator, vacuum cleaner, audio and etc. It cause harmful interference to make noises.

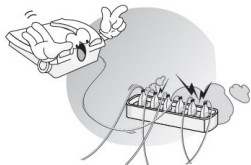


Do not install the phone in dusty area. It may be a cause of fire or electric short.



Do not install the phone near vibrating area. It may affect phone' quality and life span

● About Using Power

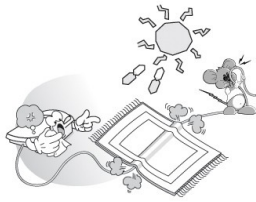


Do not plug many power cords in outlet. It may be a cause of fire or electric shock.



Do not touch the plug with wet hands. When disconnect the power cord of any accessory, grasp and pull the plug, not the cord. It may be a cause of fire or electric shock.

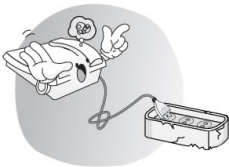
Important Safety Information



Do not lay a carpet, cushion and etc. on the phone. Do not put adapter near heat appliance. It may be a cause of fire or electric shock.



Do not put heavy things on the power cord. Do not bend power cord too much. It may be a cause of fire or electric shock.



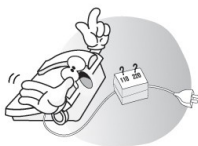
Do not remodel the power cord or disassemble. If power cord or plug are impaired, do not use it. It may be a cause of fire or electric shock.



When power cord stained with dirt, polish power core and plug into the outlet firmly. It may be a cause of fire.



When install phone in other place, check with the phone line and plug. It may be a cause of fire or electric shock



Before using plug, check with home power voltage. Inaccurate power voltage may be a cause of fire.

● About Battery Use



When changing battery out of the phone, leave it children not to chew or suck up the phone. If children swallow it, consult a doctor for medical treatment.

Important Safety Information



When battery electrolyte runs out of it, be careful of touch in eye, skin or cloth. If touched, wash it clean and consult a doctor.



Do not throw and impact battery. Do not dispose of batteries by putting them in fire. It may explode or fire by electrolyte.



Do not disassemble or remodel. Use only batteries and adapter approved by the phone manufacturer. You may get hurt or it may fire by generation of heat or explosion.



Do not peel off the polyvinyl chloride tube of battery. Do not short-circuit. Accidental short-circuiting can occur when a metallic object, like a coin, a clip or a pen causes a direct connection of the + and – terminals of the battery. You may get hurt or it may fire by generation of heat or explosion.



When smells something burning using a phone or charging a battery, plug off power source or phone line. Call for service center. If left intact for long time, it may be a cause of fire or electric shock.



Do expose of battery in designated place. If not treated properly, it may be dangerous.

Important Safety Information

● About Using the Phone



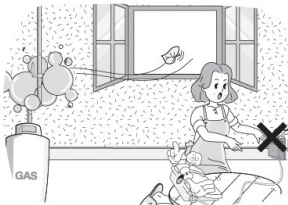
Only qualified service personnel can install or repair phone equipment. Consult your authorized LG-Nortel dealer for help. It may be a cause of fire, electric shock and breakdown.



Avoid exposure to a volatile matter such as benzene, alcoholic and acetone. It may be a cause of fire, transformation and discoloration.



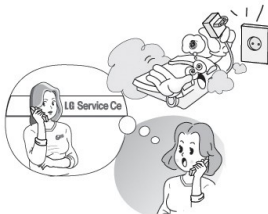
Do not insert metallic object or foreign matters. If inserted, plug off and call for service center. It may be a cause of fire or electric shock.



Do not expose to near place where gas leaks. If leaking, do not touch phone or outlet. Open the windows to let fresh air in. A spark may cause explosion, fire or burn.

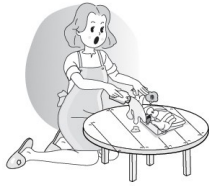


When lightning, do not touch power plug or phone line. It may be a cause of an electric shock or death.



When smoke or smell something burning, plug off power or phone line. Call for service center. If left intact for long time, it may be a cause of fire or electric shock.

Important Safety Information



Do not let water into the phone or get wet. If do, power off and plug off phone line. Keep it dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits. Call for service center. If use it intact, it may be a cause of an electric shock.



Be careful of antenna or corner of the phone. It may be a cause of an accident or injury.



If there are foreign matters or dampness on the charger, wipe it with a soft cloth. If left intact, it may be a cause of breakdown.



Do not drop or throw the phone. If do and something wrong, plug off and call for service center. It may be a cause of an accident, injury or breakdown.



Do not drop an object. It may be a cause of breakdown.



Do not put your ears on the speaker. It may be a cause of an accident or injury.



Do not put driver or pincette into the phone. It may be a cause of fire or breakdown.



Do not wrap the phone with vinyl. It may be a cause of coating' peeling off.

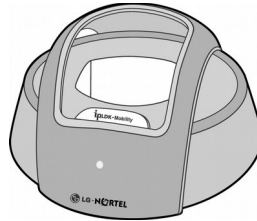
1. Unpacking

1. Unpacking

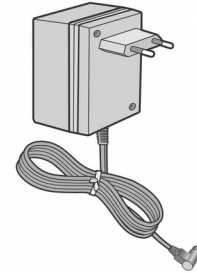
At first, make sure that you have all the parts shown below.



1



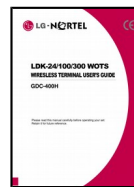
2



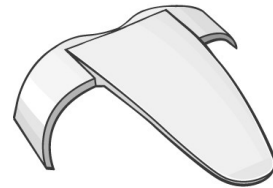
3



4



5



6

1. Handset
2. Base Unit
3. AC Adapter
4. Battery 2ea
5. User's Manual
6. Belt Clip

Warning

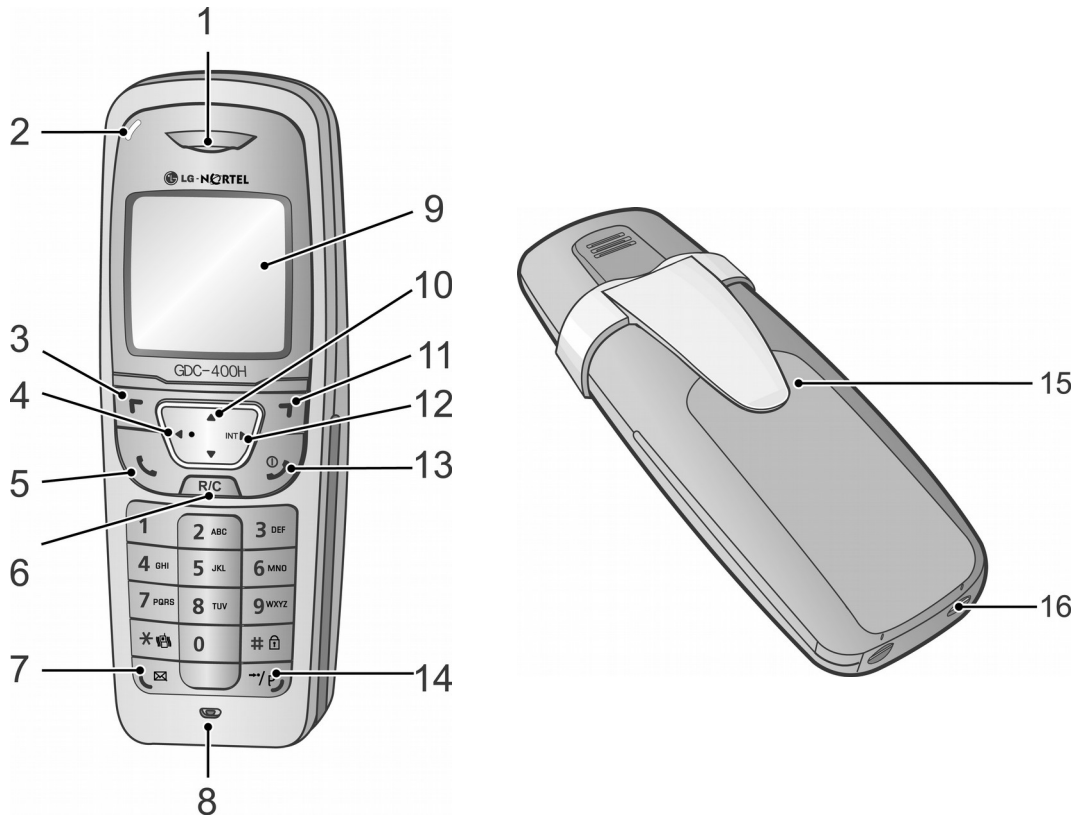
This equipment is not designed for making emergency calls when the power fails.
Make alternative arrangements for access to emergency services.

2.Phone Overview

2. Phone Overview

Descriptions of the important phone components.

2.1 Front and Back View of Handset











- 1. Earpiece
- 2. Ring LED
- 3. Left Soft Button
- 4. Left Button
- 5. Talk Button
- 6. Flash/Clear Button
- 7. Call Back/Message Button
- 8. Microphone





- 9. LCD(Liquid Crystal Display)
- 10. Up/Down Button
- 11. Right Soft Button
- 12. Right/Transfer/Internal Button
- 13. END/Power Button
- 14. Speed/Program Button
- 15. Battery Cover
- 16. Charging Terminal

2.Phone Overview

2.2 Description of Button

Button	Function
	<p>[TALK]</p> <ul style="list-style-type: none"> ■ Try to make a call <ul style="list-style-type: none"> → Redial number saved in handset.
	<p>[END/POWER]</p> <ul style="list-style-type: none"> ■ Pressing longer than 1 second : Power Off <ul style="list-style-type: none"> → Pressing shorter than 1 second :Leave a call back or a message ■ Pressing shorter than 1 second: Ignore an call during incoming.
 	<p>[LEFT SOFT / RIGHT SOFT]</p> <p>You can access to the current functions by pressing the soft button directly below this symbol.</p>
	<p>[FLASH/CLEAR]</p> <ul style="list-style-type: none"> ■ Talking Mode : Register recall ■ Flash a call and retry next call ■ When using pre-dial : <ul style="list-style-type: none"> → Pressing longer than 1 second : All digits are cleared → Pressing shorter than 1 second : 1 digit backspace → When using local functional operation : Function cancel (It should be pressed longer than 1 second)
	<p>[SPEED/PROGRAM]</p> <ul style="list-style-type: none"> ■ Post-Dial : <ul style="list-style-type: none"> → Pressing shorter than 1 second : System speed dial(SPEED). → Pressing longer than 1 second : Start/Finish a system program (PROGRAM). Same as the FUNCTION button of GDC-345H.
	<p>[LEFT]</p> <ul style="list-style-type: none"> ■ In an idle state : To view missed call In MENU : LEFT
	<p>[RIGHT/INTERNAL/TRANSFER/HOLD]</p> <ul style="list-style-type: none"> ■ Talking Mode : <ul style="list-style-type: none"> → Pressing shorter than 1 second:Transfer a call to the other station(TRANS). → Pressing longer than 1 second:Hold a call / release a holding call(HOLD). ■ In an idle state : <ul style="list-style-type: none"> → In MENU : right button → Home DECT : Internal call → Key-telephone DECT : Trying to make a intercom call or CO line call

2.Phone Overview

Button	Function
	[CALL BACK] <ul style="list-style-type: none"> ■ Pressing shorter than 1 second : Leave a call back or a message
	[UP/DOWN] <ul style="list-style-type: none"> ■ Talking Mode : Up / Down the level of Rx volume, Call by name, CLIP ■ Standby Mode : <ul style="list-style-type: none"> → In Menu: Navigate and select among function items in a menu or submenu. ■ No inputted state : <ul style="list-style-type: none"> → UP : Local Redial → DOWN : Phonebook list
	<ul style="list-style-type: none"> ■ To lock Keypad (Pressing longer than 1 second) ■ '#' Display (Pressing shorter than 1 second) ■ While Dialing: To insert pause (Pressing longer than 1 second)
	<ul style="list-style-type: none"> ■ Talking Mode (Only when the Camp-On function is supported by ipLDK series) : Camp-On ■ Standby Mode : <ul style="list-style-type: none"> → '*' is displayed (Pressing shorter than 1 second) → Enable/disable manner mode(Pressing longer than 1 second)
0~9	- Standard dial button

2.Phone Overview

2.3 LCD Display

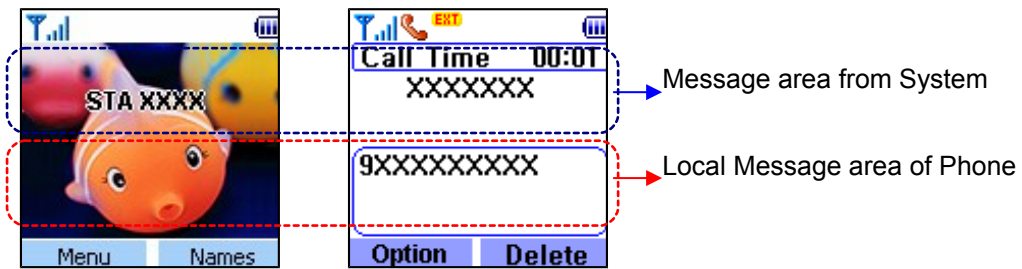
The LCD of GDC-400H GAP has 128 x 128 pixels that are capable to display 10 icons and 7 lines x 18 characters per line. The LCD shows different wireless states and displays visual feedback for the actions performed by user.



Icon	Description
	<p>[Antenna Icon & RSSI Icon]</p> <ul style="list-style-type: none"> ■ The terminal is locked to a base station and the location registration is finished. ■ Location registration is finished. Even though user may make a call or receive a call, may hear very severe noise. (Below -86dBm) ■ User may make a call or receive a call and the may hear some noise. (-85dBm~-80dBm) ■ User may make a call or receive a call and the call quality is normal. (-79dBm~-70dBm) ■ User may make a call or receive a call and the call quality is good. (Upper -69dBm)
	<p>[PHONE Icon] Indicates that a traffic channel is established.</p>
	<p>[EXTERNAL/INTERNAL CALL ICON] Indicates that the call is from and to where. EXT is external and INT is internal.</p>
	<p>[MANNER MODE ICON] Indicates that the phone mode is manner mode. In manner mode, all sound is disabled and ring is replaced by vibration.</p>
	<p>[MESSAGE ICON] The icon indicates that the system has at least one new message for the wireless terminal. The message information is updated every 3 minute. The disconnection with the subscribed system makes impossible to update the message information and the icon is disappeared. And if the wireless terminal is connected with the system, this icon is displayed again on the LCD. If the station message is left, the reserved call is made by using CALLBACK button and this icon will be disappeared after the call. In case of voice message through VMIB, press FLASH button to delete a message after checking the message. When all messages are deleted, the message icon will be disappeared. Otherwise, this icon will be still remained. Applicable message: VMIB message, CLI message, Station message.</p>
	<p>[KEY LOCK ICON] Indicates that the phone is set to key lock mode.</p>
	<p>[Alarm clock ICON] Indicates that an alarm clock is set.</p>

2.4 Message Display

2.Phone Overview

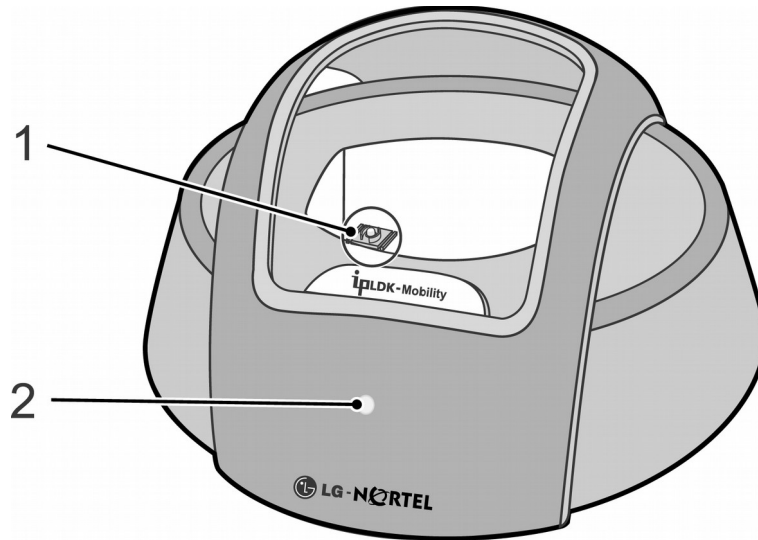


Message	Description	Display Duration
STA xxxx	Station number	Standby Mode
CALL FROM STA xxxx	When a call is received from intercom, it indicates a call paging from station xxx	During ringing and until cutting off a Call
CALL TO STA xxxx	When a call is made to intercom, it indicates a call paging to station xxx	During ringing and until cutting off a Call
LN XXX RINGING	When received from CO line, it indicates a paging from CO line x	During ringing
HOLDING STA xxxx	It indicates a call is holding.	During holding or transferring a call
LN XXX	Connected CO line number	During holding CO line

Message	Description	Display Duration
Range Out	It indicates wireless terminal is out of range or not yet synchronized with a system.	During staying in out of range or until completing synchronization
No Channel	There is no available RF Channel	During no channel
Silent Mode	It indicates this terminal is in silent mode	During silent mode
Direct call	It indicates this terminal is in Direct mode	During Direct mode
Keypad Locked	It indicates keypad is locked	While keypad is locked
0~9, *, #, P, D, R	Local dialed digits (P:Pause, D:Go to DTMF mode, R:Flash)	During dialing

2.Phone Overview

2.5 Front and Back View of Base Unit

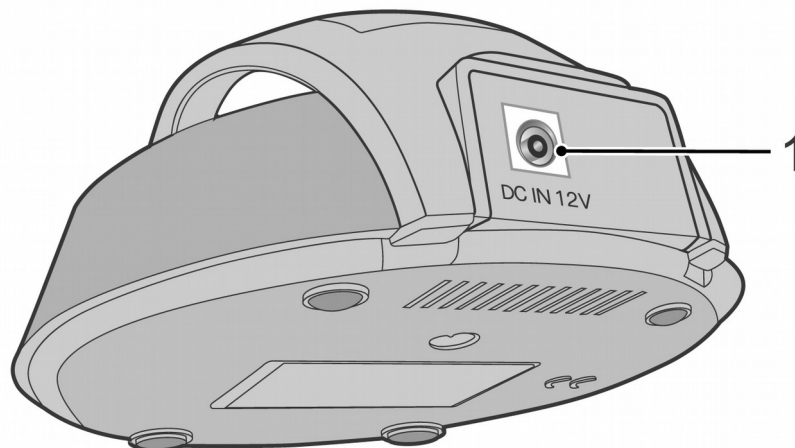


1 Charging terminal

Keep the charging terminal clean; **Use cotton swab to remove stain from the terminal.**

2 Charge / In use lamp

Illuminates when the handset is on the base. Blinking when the phone is in use.



1. Adapter jack

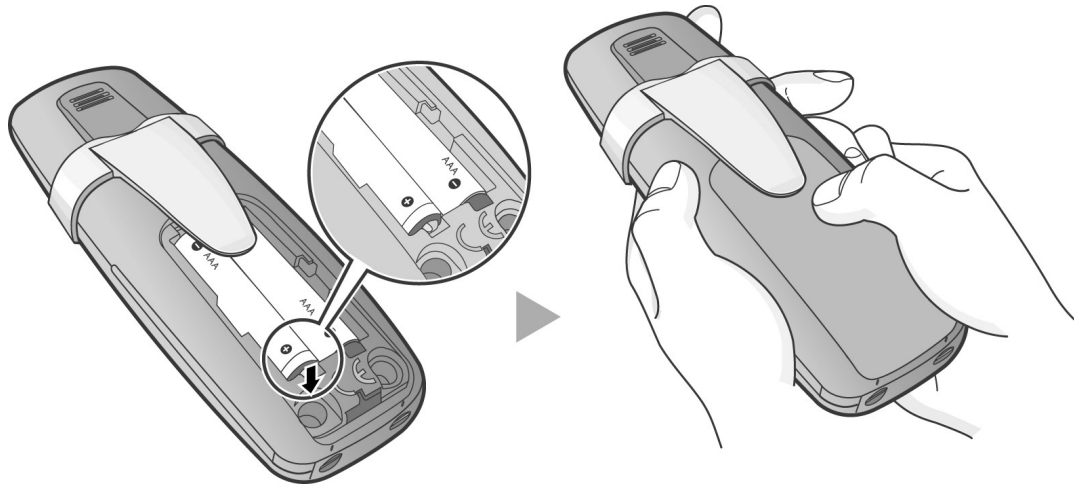
Connect the adapter to the base.

3.Setting Up

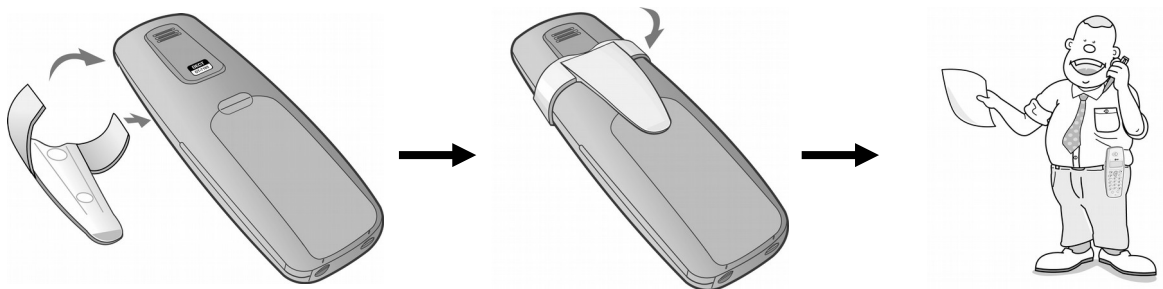
3. Setting Up

3.1 Installing the Battery

Before inserting the battery, make sure the polarity is in correct position.(See figure below) Then close the battery cover and push upward until it clicks into place. When you replace the battery, press the latch on the cover and slide down to open. After then replace the new battery. You can purchase new battery in LG-Nortel SVC Center.



3.2 Put the Beltclip into Handset



Note

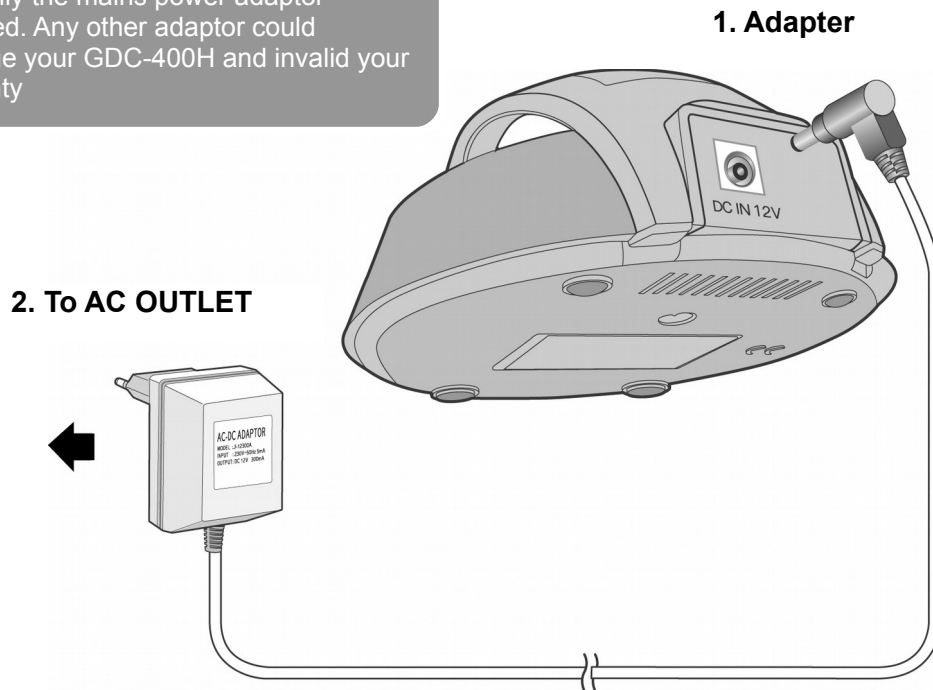
You can hang the handset on your belt or pocket using the beltclip.

3. Setting Up

3.3 Connecting the Charger

Warning

Use only the mains power adaptor supplied. Any other adaptor could damage your GDC-400H and invalid your warranty



3.4 Charging the Handset

Please charge the battery for about 12 hours before initial use. The battery charge level is shown at the top right of the LCD screen.

Display Icon	Battery Status Description
	Battery is empty
	Need to be charged(Low)
	Battery is partially charged(Medium)
	Battery is fully charged(High)

Bat. Type	Duration	Full Charging Time
Talking Mode	15 hours	More than 20 hours
Standby Mode	150 hours	

< Battery duration and charging time >

Note

The battery has limited operating life and the period of warranty services for the battery is 6 months from purchasing date.

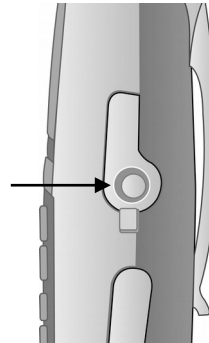
The LCD backlight is automatically turned off in the low level to maximize time.

3.Setting Up

3.5 Wireless Terminal (GDC-400H)

Rubber lid for ear-microphone

♣ A general ear-microphone can be used.



Warning

Do not insert any external substance except ear-microphone for GDC-400H in the hole. Inserting anything except for ear-microphone provided by general maker may cause severe damage to the terminal.




4. BASIC FUNCTIONS

4. BASIC FUNCTIONS




4.1 Making a Call

To make a call by entering numbers on your keypad.

4.1.1 Making a External Call



- 1) Press  button.
- 2) “” and “EXT” symbol are displayed and you can hear the dial tone.
- 3) Enter the dialing number.
- 4) Press  button again to end the call.
- 5) The call duration and the current time are displayed.

4.1.2 Making a Internal Call




- 1) Press the  button.
- 2) “” and “INT” symbol are displayed and you can hear the dial tone.
- 3) Enter the dialing number.
- 4) Press  button again to end the call.
- 5) The call duration and the current time are displayed.

4.2 Pre-Dialing Call

4.2.1 Normal dialing

- 1) Enter the dialing number.(up to 24 digits).
- 2) Press the **Delete**  button if you want to delete the incorrectly entered number one by one.
- 3) Press the  button to dial the number entered.

4.2.2 Local Redialing

- 1) The last dialed 10 numbers are remembered in the Memory.
- 2) Press the **UP**  button.
- 3) The dialed numbers are displayed.
- 4) Select the desired number and press the **Option**  button.
- 5) Select **Call** in the **Dialed Option** menu and press the **OK**  button then that number is dialed.

4.2.3 Local Speed Dialing









In idle state, user can make an outgoing call pressing position number saved in the phonebook. The valid speed dialing range is from 1 to 60.

- 1) Press 1 or 2 digits for longer than 1 second. If the position number is stored in the phonebook, Speed dialing will be started. If not, it will be ignored.

4. BASIC FUNCTIONS



4.2.4 Dialing from Phonebook






You can dial the dialing number from Phone book (60 locations).



- 1) Press the **Names** () button.
- 2) Select Find in the Phonebook menu.
- 3) Search the desired name by the name searching method.
- 4) Press the **OK** () button, then “**Enter Name:** “ is displayed.
- 5) Enter the desired name. (Ex : “**KE**” for KENNY).
- 6) Press the **Find** () button to search it. (If you don't enter the desired name and press the **Find** () button, all phonebook names are displayed, and then you can select the desired name by pressing the **UP/DOWN** () buttons.
- 7) Press the **Call** () button to dial the telephone number, if you find the desired name. Another method is as the below.
- 8) Press the **DOWN** () button, then the names in the phonebook list are displayed.
- 9) Select the desired name and press the  button to dial that number.

4.3 Placing an Outside Call

4.3.1 Pre Dial

- 1) ipLDK-24/100
CO Line Access Code (9, 8+XX or 88+XX) → Phone Number →  Connection
- 2) ipLDK-300/300E
CO Line Access Code (9, 8+XX or 88+XXX) → Phone Number →  Connection

You may dial telephone number in an idle state before pressing  button (up to 24 digits). Since it is displayed only 11 digits per line on the LCD. If you dial a wrong digit, a user can erase last 1 digit by pressing Delete () but  once and if you want to erase all digit dialed, press Delete () button  longer than 1 second. If you want to insert dialing pause among dial numbers, press “Option” button and select “Insert Pause”. Then “P” is displayed on the LCD.



- Dial phone number.
- Press **TALK**() button.
- Phone() icon is displayed on the LCD.
- The LCD message is displayed as the left figure and connection tone is heard when connection is completed.


Note

You can insert dialing pause pressing “#” button longer then 1 second in both pre-dialing and post dialing

4. BASIC FUNCTIONS



4.3.2 Post Dial

- 1) ipLDK-24/100
 → CO Line Access Code (9, 8+XX or 88+XX) → Phone number → Connection ;
(XX means CO line number).
- 2) ipLDK-300/300E
 → CO Line Access Code (9,8+XX or 88+XXX) → Phone number → Connection ;
(XX means CO Group Number, XXX means CO line number).



You may dial telephone number after pressing **TALK** ( button. When pressing CO line access code (9, 8 + XX, or 88 + XX), CO line dial tone is heard. Every time pressing each button, it is displayed on the LCD. If you dial a number late, “**DIALING TOO LATE**” message is displayed on the LCD.

Note

In case of ipLDK-24/100/300/300E system, if handset was registered by 'TYPE 3', it is displayed 12 digits per line on the LCD (This feature is available when MPB version of ipLDK-100/300/300E is 1.0Ba above and when MPB version of ipLDK-24 is available on all version. Please refer to '9.2 Subscription' for details.

- Press  button. Connection tone is heard and **phone**() icon is displayed on the LCD.
- Dial CO line access code.
 - ➔ ipLDK-24/100 (9, 8 + XX, or 88 + XX).
 - ➔ ipLDK-300/300E (9, 8 + XX, or 88 + XXX).
- Dial the desired phone number.

4.3.3 Call Release

To release a call, press **END** ( button. The **phone**() icon will be disappeared and the wireless terminal will goes to an idle state.

4.3.4 Assign CO Line/CO Line Group

Available CO lines can be grouped and the accessible CO line groups can be assigned to a station by Admin programming (For detail programming, refer to “CO LINE GROUPS” and “CO LINE ACCESS” of “Digital Key Telephone System Programming Manual”). All available CO lines are assigned to Group 01 by default.

Accessing a CO line is done in three ways as above; (9, 8+CO line group # or 88+CO line #) and they are;

- 1) 9 (CO line Access Code): Connect an available CO line of the assigned CO line group to the station. CO line selecting method is programmable by Admin programming.
- 2) 8 + CO line group #: Connect an available CO line of the CO line group. The CO line group should be assigned to the station before by Admin programming. CO line selecting method is programmable by Admin programming.
- 3) 88 + CO line #: Connect the CO line directly. The CO line should be allowed to the station before by Admin programming.

4. BASIC FUNCTIONS

4.4 Answering a Call

Receive a phone call using the handset.

- 1) When the phone is ringing, the “EXT” or “INT” symbol related to the incoming call flashes. In the LCD Message area from system, message from system is displayed. At the same time, in the Local message area, name and CID is displayed. The name is displayed only when there is matched telephone number in the phonebook. The user can accept an incoming internal or external call by pressing the button.
 - **Auto Talk:** While the phone is charging mode you can answer the call by lifting the handset from the base unit. This feature is enabled permanently.

4.4.1 Answering a External Call

- 1) Handset will ring and show a flashing “EXT” symbol.
- 2) Press button to answer a call “ ” and “EXT” symbol is displayed steadily.
- 3) Press button again to end the call. The call duration and the current time are displayed.

4.4.2 Answering a Internal Call

- 1) Handset will ring and show a flashing “INT” symbol.
- 2) Press button to answer a call “ ” and “INT” symbol is displayed steadily.
- 3) Press button again to end the call. The call duration and the current time are displayed.

4.4.3 Ignoring a Call

- 1) You can ignore a call if you do not want to answer it by pressing “END” () for shorter than 1 second.
- 2) All ring and vibration will be stopped. But, the caller will hear ring back tone.
- 3) Press TALK () to talk.

4.5 Call Transfer

This function is to transfer a received call to another user.

- 1) Talk → () (less shorter than 1 second) → Intercom number → . ()

While connected to a CO call (*or intercom call*).

- 1) Press TRANS () button shorter than 1 second and then the call is put on hold state.
- 2) Dial intercom station number.
(ex. ipLDK-24: 10~41, ipLDK-100: 100~227, ipLDK-300: 100~399, ipLDK-300E: 1000~1599)

At this point, a user can make either a screened or unscreened call transfer.

4.5.1 Screened Transfer



When the called station answers, inform the transfer.

4. BASIC FUNCTIONS

- 1) Press **END** ( button to complete the transfer.

4.5.2 Unscreened Transfer

When the called station begins to ring,

- 1) Press **END** ( button to complete the transfer after ring back tone is heard. Then, a message is displayed on the LCD of the called station. If the call is not answered within 30 seconds, recall ring is ringing at both stations. At this time, press **TALK** ( button then a user will be connected with the transferred call again.

4.5.3 Answering Screened Transfer

A user will hear intercom ring.


- 1) Answer intercom call and receive transfer notice. If the transferring party hangs up, the outside call will be connected.

4.5.4 Executive/Secretary Transfer


- 1) If a station is designated as an Executive station and the station is busy or in DND (Do Not Disturb), all calls will go to its Secretary station.
- 2) If a station is designated as a Secretary station, it may signal its Executive station which is in DND by using the Call Wait feature.

4.6 Placing a CO Call on Hold


While you use a wireless terminal through CO line, you can use this function when you want to let the outside caller wait for a moment.

- 1) Talk →  (less longer than 1second)



While connected to a CO call (*not intercom call*),

- 2) Press **HOLD** ( button longer than 1 second for exclusive hold. (Dial tone will be heard) A message is displayed on the LCD as shown, and the hold music is heard to the outside caller. You have two kinds of choice, one is to retrieve a call and the other is to make another call.

4.6.1 To retrieve the call

- 1) Press **HOLD** ( button longer than 1 second, then the held outside call will be connected.

4.6.2 To make another call



- 1) Press **END** ( button if you want to make another intercom or CO call.
- 2) The wireless terminal goes to an idle state.
- 3) Press **TALK** ( button again to make a call.

4.7 Flash

During conversation (through CO line or intercom), releasing current call and entering dialing mode can be done at once by Flash. The FLASH button is also used to transfer a CO line call


4. BASIC FUNCTIONS

through a PABX.

- 1) If you are talking with intercom line, press **FLASH**  button to release a call. Then, dial tone will be heard and you may make another call or do the other operation, for example, programming using system function and so on.
- 2) If you are talking with CO line, press **FLASH**  button to release a call. Then, dial tone will be heard and you may make another CO call.
- 3) If you want to transfer a CO call to a PABX, dial an internal station number of a PABX. When ring back tone is heard, hang up the call for unscreened transfer, or inform the transfer when the called party answers, then hang up the call for screened transfer.

4.8 Go to DTMF Function





This function is that the pressed digit signal from the wireless terminal to CO. is generated to DTMF. Use this function in case that the outside PBX or phone requests DTMF tone. However, according to capability of the subscribed system, this function may be operated or not. This function will be used for Home DECT inter-operability and for ipLDK series.

- 1) Press  button for longer than 1 second during pre-dialing or post-dialing.
- 2) The dial tone is transferred to DTMF tone.





4.9 Adjust Earpiece Volume

During a call, the user can adjust the earpiece volume in the range 1 ~ 7.

● Fast way

- 1) Press **UP/DOWN** () button. You don't need to look at the LCD display.
- 2) Change the hear volume level by pressing the **UP/DOWN** () or **LEFT/RIGHT** () button.
- 3) If you don't press any button within 3 seconds, the volume level is automatically saved. It helps for you to concentrate upon the conversation with somebody.
- 4) If you press **OK** () button within 3 seconds, the volume level is saved immediately.




● Normal way

- 1) Press the **Option** () button during a call. The handset displays **Call Options** menu.
- 2) Select **Hear Volume** in the **Call Options** menu and press the **OK** () button.
- 3) The handset displays **Hear Volume** level. It is the current level.
- 4) Change the hear volume level by pressing the **LEFT/RIGHT** () button, and then press the **OK** () button to set with that level.

4.10 Microphone Muting







During a call, you can mute the microphone.

4. BASIC FUNCTIONS




- 1) Press the **Option**  button during a call. The handset displays **Call Options** menu.
- 2) Select **Mute** in the **Call Options** menu and press the **OK**  button.
- 3) The handset displays “**MUTED**” on the center of the LCD.
- 4) When you press **Enable**  button the function is deactivated.

4.11 Adjust Ringer Volume

The user can adjust ringer volume in the range 1 ~ 9.




- 1) Press the **Menu**  button to enter the menu.
- 2) Select Image & Sound menu.
- 3) Select Sounds menu and press the **OK**  button. There are 3 menu displayed. External Ring, Internal Ring and Ringing Mode.
- 4) Select one of them and press the **OK**  button. The sub menu are displayed.
- 5) Select Volume menu and press the **OK**  button. The handset displays Volume level. It is the current level.
- 6) Change the hear volume level by pressing the **LEFT/RIGHT**  button, and then press the **OK** ( button) to set with that level.

4.12 Handset Power On Power off

- 1) Power On
Long press  button at Power off state. The handset will search for the base station and displays “Range Out”. After searching Base, “Range Out” is disappeared and the “” symbol is displayed on the LCD.
- 2) Power Off
Long press (about 1sec)  button at Idle Mode. After validation tone, handset is switched off.

5.Phonebook

5. Phonebook

- ❑ **In the Off-Hook Mode** (reference **5.1 Phonebook Menu**)
 - While talking, press **Option** ( button and select Phone Book in Call Options menu.
- ❑ **In the On-Hook Mode**
 - Press **Names** ( button (reference **5.1 Phonebook Menu**)
 - Press the **DOWN**( button (reference 5.2 Find Phonebook Direct Menu)

5.1 Phonebook Menu




There are 4 sub menu. Use **UP/DOWN**( button to select sub menu.

- ❑ Find
- ❑ Add Entry
- ❑ Modify
- ❑ Delete

In case of no number saved in Phonebook, “Phonebook Empty” is displayed and to add phone number Press **Add** ( button (reference **5.1.2 Add Entry**).

It is possible to save in the Phonebook up to 60 names and number, with the following characteristics.

5.1.1 Find

- 1) To search number in Phonebook, you can enter some of names when cursor blinks. And press **Find** () button. After compare names with phonebook directory, same names are shown or “No Name in Phone Book” is displayed in no matches.
- 2) Search number in Phonebook, you can press **Find** () button and all names are shown.
- 3) After search completed, and press **UP/DOWN** () button to enter option menu.
- 4) There are 3 option menu: View, Modify, Delete.

5.1.1.1 View

You can see whole name and number in detail.





5.1.1.2 Modify

You can modify name and number and you can save it again.

5.1.1.3 Delete

You can delete selected name and number. To delete the number press **Delete** ( button.

5.1.2 Add Entry

- 1) Type phone book directory name, and press **OK** () button.
- 2) Use **Delete** () button to delete 1 character.
- 3) When name is entered, press **OK** () button and type phone number using dial key.
- 4) Select whether you use CO access code for CO line access or not. CO access code can be registered each base in the Edit CO code sub menu in the Phone Settings menu. The CODE-1 is for BASE-1 and CODE-2 is for BASE-2.
- 5) Select position for speed function.You can use this number as speed dial in idle state. Its valid range is from 1 to 60.
- 6) And press **Save** () button.

5.Phonebook

5.1.3 Modify

- Search directory to modify (reference **5.1.1 Find**).
- Modify name and number, to use or cancel CO access code or saved position.

- English Mode

KEY	Number to Repeat									
	1	2	3	4	5	6	7	8	9	10
1	@	:	/	<	>	()	1		
2	a	b	c	2	A	B	C			
3	d	e	f	3	D	E	F			
4	g	h	i	4	G	H	I			
5	j	k	l	5	J	K	L			
6	m	n	o	6	M	N	O			
7	p	q	r	s	7	P	Q	R	S	
8	t	u	v	8	T	U	V			
9	w	x	y	Z	9	W	X	Y	Z	
0	&	\$.	,	?	!	%	0		
*	*	-								
#	#		+	-						

- Italian Mode

KEY	Number to Repeat									
	1	2	3	4	5	6	7	8	9	10
1	@	:	/	<	>	()	1		
2	a	b	c	2	A	B	C	á		
3	d	e	f	3	D	E	F	è		
4	g	h	i	4	G	H	I	ì		
5	j	k	l	5	J	K	L			
6	m	n	o	6	M	N	O	ò		
7	p	q	r	s	7	P	Q	R	S	
8	t	u	v	8	T	U	V	ù		
9	w	x	y	Z	9	W	X	Y	Z	
0		-	.	,	?	!	%	0		
*	*	€	\$							
#	#	&	+	-						

5.Phonebook

- Spanish Mode

KEY	Number to Repeat									
	1	2	3	4	5	6	7	8	9	10
1	@	:	/	<	>	()	1		
2	a	b	c	2	A	B	C	á	à	
3	d	e	f	3	D	E	F	é	è	
4	g	h	i	4	G	H	I	í	ì	
5	j	k	l	5	J	K	L	Ç		
6	m	n	o	6	M	N	O	ñ	ó	ò
7	p	q	r	s	7	P	Q	R	S	
8	t	u	v	8	T	U	V	ú	ù	
9	w	x	y	Z	9	W	X	Y	Z	
0	.	,	?	!	%	0				
*	_	*	€	\$						
#		#	&	+	-					


- Russian Mode

KEY	Number to Repeat									
	1	2	3	4	5	6	7	8	9	10
1	@	:	/	<	>	()	1		
2	а	б	в	г	А	Б	В	Г		
3	д	е	ё	ж	з	Д	Е	Ё	Ж	З
4	и	й	к	л	И	Й	К	Л		
5	м	н	о	п	М	Н	О	П		
6	р	с	т	у	Р	С	Т	У		
7	ф	х	ц	ч	Ф	Х	Ц	Ч		
8	ш	щ	ъ	ы	Ш	Щ	Ъ	Ы		
9	ь	э	ю	ь	Э	Ю	Я			
0	&	\$.	,	?	!	%	0		
*	*	_								
#	#		+	-						

5.Phonebook

5.1.4 Delete



5.1.4.1 Delete One

- 1) Search directory to delete (reference **5.1.1 Find**).
- 2) Press **Delete** ( button to delete selected phonebook.

5.1.4.2 Delete All

- 1) All Phone Book directories will be deleted.


5.2 Find Phonebook Direct menu

Press **DOWN** ( button. All Phone Book directory list showed. Using **UP/DOWN** ( button) select phone book and enter option sub menu.

- View
- Modify
- Delete




6. Programming Features

6. Programming Features

To enter the programming features menu, the user has to press the **Menu** () button during Idle Mode or during Not Subscribed Mode. During a call, either internal or external, no access to the programming feature is possible. The following list shows the programming features menu structures.

□ Programming Features Menu


- 1) Call Register
- 2) Image & Sound
- 3) Phone Register
- 4) Appointment
- 5) Phone Settings
- 6) Direct Call

You can select the desired menu by pressing the **navigation buttons** () and you can enter the desired menu by pressing the **OK** () button. Pressing the **Back** () button will terminate the programming menu and return to Idle Mode.

6.1 Call Register






There are 4 menu in this menu.

- Missed Call
- Received Call
- Dialed Call
- Delete Call

You can enter the desired menu by pressing the **OK** () button.


6.1.1 Missed Call

Missed call is the one that you didn't receive or AOH set is automation setting they can be up to 100 calls(including the received calls) in total if there's no received call.

- 1) In Standby mode, press the **Menu** () button.
- 2) Select **Call Register** menu and press the **OK** () button.
- 3) Select **Missed Call** menu and press the **OK** () button. Missed call entry is displayed.
- 4) Press the **UP/DOWN** () button to browse missed calls.
- 5) Press the **Option** () button to do the optional tasks. There are 4 option menus.
 - Details
 - Save into Phbk
 - Delete
 - Call



6.1.1.1 Details

The user can check the details on call such as caller's number, and time.

- 1) In Option mode, select Details menu and press the **OK** () button.
 - Caller's number and time are displayed.

6.1.1.2 Save into Phbk



The user can save missed call into phone book.

- 1) In Option mode, select **Save into Phbk** menu and press the **OK** () button. "**Add Entry**" is displayed.
- 2) Enter name and press the **OK** () button. "Entry Saved" is displayed and goes back to the previous menu.

6.Programming Features


6.1.1.3 Delete

The user can delete call.

- 1) In Option mode, select **Delete** menu press the **OK** ( button.
- 2) Press the **OK** ( button to delete the selected number.
 - Selected number is deleted and goes back to the previous menu.






6.1.1.4 Call

The user can make a call with the selected number.

- 1) In Option mode, select Call menu press the **OK** ( button.
 - Loop is occupied and call is made with the selected number.






6.1.2 Received Call

Received call is the one that you received and they can be up to 100 calls(including the missed calls) in total if there's no missed call.

- 1) In Standby mode, press the **Menu** () button.
- 2) Select **Call Register** menu and press the **OK** () button.
- 3) Select **Received call** menu and press the **OK** () button. Missed call entry is displayed.
- 4) Press the **UP/DOWN** () button to browse missed calls.
- 5) Press the **Option** () button to do the optional tasks There are 4 option menus.
 - Details
 - Save into Phbk
 - Delete
 - Call




6.1.3 Dialed Call

Received call is the one that you dialed and they can save up to 10 calls.

- 1) In Standby mode, press the **Menu** () button.
- 2) Select **Call Register** menu and press the **OK** () button.
- 3) Select **Dialed Call** menu and press the **OK** () button. **Dialed call** entry is displayed.
- 4) Press the **UP/DOWN** () button to browse missed calls.
- 5) Press the **Option** () button to do the optional tasks. There are 4 option menus.
 - Details
 - Save into Phbk
 - Delete
 - Call

6.1.4 Delete Call



The user can delete all corresponding calls.

- 1) In Standby mode, press the **Menu** () button.
- 2) Select **Call Register** menu and press the **OK** () button.
- 3) Select **Delete Call** menu and press the **OK** () button. There are 4 option menus.
 - Missed Calls
 - Received Calls
 - Dialed Calls
 - All Calls

6.Programming Features



6.1.4.1 Missed Calls

The user can delete all Missed Calls.

- 1) In Option mode, select **Missed Calls** menu press the **OK** () button.
- 2) Press the **OK** () button to delete all Missed Calls.
 - All Missed Calls are deleted and goes back to the previous menu.



6.1.4.2 Received Calls

The user can delete all Received Calls.

- 1) In Option mode, select **Received Calls** menu press the **OK** () button.
- 2) Press the **OK** () button to delete all Received Calls.
 - All Received Calls are deleted and goes back to the previous menu.



6.1.4.3 Dialed Calls

The user can delete all Dialed Calls.

- 1) In Option mode, select **Dialed Calls** menu press the **OK** () button.
- 2) Press the **OK** () button to delete all Dialed Calls.
 - All Dialed Calls are deleted and goes back to the previous menu.


6.1.4.4 All Calls

The user can delete All Calls including Missed/Received / Dialed calls.

- 1) In Option mode, select **All Calls** menu press the **OK** () button.
- 2) Press the **OK** () button to delete All Calls.
 - All Calls are deleted and goes back to the previous menu.



6.2 Image & Sound

- Images.
- Sounds.

You can enter the desired menu by pressing the **OK** () button.

6.2.1 Images

There is wallpaper in this menu.

- 1) You can view wallpaper by pressing the **VIEW** () button. You can set as background wallpaper by pressing the **SET** () button.

6.2.2 Sounds

6.2.2.1 Ringing Set

There are 3 menu in this menu.

- Internal Ring**
- External Ring**
- Ringling Mode**



1) **Internal Ring**

There are 2 menu in this menu.


- Ringing Type.
- Volume.

6. Programming Features

→ Ringing Type

- You can hear melodies.(9 melodies) You can choose Ring by pressing the **LEFT/RIGHT**() button.
- You can set as External/ Internal Ring by pressing the **SET** () button.

→ Volume

- 9 volumes. You can choose volume by pressing the **LEFT/RIGHT**() button. Display “**volume set**” in LCD.

2) External Ring



There are 2 menus in this menu.

- Ringing Type
- Volume

→ These menus operate in same 6.2.2.1 Ringing Set – 1) Internal Ring menu.

3) Ringing Mode

A user can select the one mode among **By Ring** (=Vibrator off), **No Sound**, **By Vibrator** (=Ring off), **Ring and Vib**, and **Ring after vib**. . This function is set by **Ringing Mode** setting operation in **Sounds** menu of *Image & Sound Menu*. When **By Vibrator** is selected, ring tone can't be generated. But for being conscious of incoming call there is phone vibration. When **Ring and Vib** is selected, there is ring tone and vibration at the same time. When **Ring after Vib** is selected, there is ring tone after 10 seconds vibration. The initial state is **Ring**.





- There are five ringing mode. You can choose ring by pressing **LEFT/RIGHT** () button() and set by **SET** () button()
 - By Ring: it generates ring sound whenever a call is incoming.
 - No Sound: No ring sound. Only ring LED is blinking.
 - By Vibrator: No ring sound. Only Vibration.
 - Ring and Vib: Ring sound and Vibration at the same time.
 - Ring after Vib: Ring sound after vibration for 10 seconds.

6.3 Phone Register

To register a new portable to your base or to register the portable again after the base reset (see paragraph Base Reset).

6.3.1 Subscription

This function is to subscribe a wireless terminal to the system. Please refer to ‘**9.2 subscription**’ for details.



- 1) Select Subscription and press **OK** () button.
4 bases are displayed on the LCD.
“BASE 1”,..., “BASE 4”
The base(s) where the current handset is subscribed to is (are) displayed dimly.
- 2) Select the desired base and press **OK** () button.
And then “SEARCHING: x” is displayed where x means the base number.
If the handset searches the base, the base RFPI is displayed in the handset.
- 3) Press **OK** () button.
And then AC: is displayed.
 - Enter the AC and press **OK** () button, then the handset subscription is finished.
From now on, “Range Out” is disappeared on the LCD in the idle mode.

6. Programming Features

6.3.2 Base Choice





The wireless terminal, GDC-400H(GAP), can be subscribed to up to 4 GAP systems. However, the wireless terminal can't use all systems at the same time. Only one system selected by a user is available for using the wireless terminal. This function is to select system that a user wants to use. Please refer to '9.6 Change of Subscribed System' for details.

If you are registered to more than one base, you can select which base to use, or let the handset choose the strongest connection signal automatically.

- 1) Select Base Choice and press **OK** () button.
BEST BASE and 4 bases are displayed on the LCD.
"BEST BASE", "BASE 1", ..., "BASE 4".
The base(s) where the current handset is subscribed to is displayed on the cursor when enter into this menu. The base(s) not subscribed is(are) displayed dimly.
- 2) Select the desired base and press **OK** () button.
If you select BEST BASE, the best base of all bases where the handset is subscribed to is selected.



6.3.3 Modify PIN

The user can change H/S PIN Number.

- 1) Select Modify PIN menu and press **OK** () button.
 - "HS PIN : " is displayed.
- 2) Input HS PIN number and press **OK** () button.
 - "NEW PIN : " is displayed with valid tone.
- 3) Input new HS PIN number and press **OK** () button.
 - "RETYPE : " is displayed.
- 4) Retype new HS PIN number and press **OK** () button.
 - PIN Number changes with valid tone and goes back to standby mode.
- 5) Default H/S PIN number :0000.

6.3.4 Base ID





The user can identify Base ID.

- 1) In Standby mode, press **OK** () button.
- 2) Select Phone Settings menu.
- 3) Select Base ID menu and press **OK** () button.
Base ID is displayed.

6.3.5 Reset

The user can clear Direct Call Number, Phonebook Number, and initialize all H/S Registration Information, and H/S settings such as Language, Ring Type, Ring Volume, Display, Keypad Tones to the default setting made in production phase.

6.3.5.1 Clear Phonebook Memory





- 1) Select Reset menu and press **OK** () button. "HS PIN : " is displayed.
- 2) Input "HS PIN" and press **OK** () button to move into Reset submenus.
- 3) Select Phonebook menu and press **OK** () button.
- 4) Press **OK** () button to clear phonebook memory and CLIP. Dialed Calls are not changed.

6. Programming Features

6.3.5.2 Reset Settings










- 1) Select Reset menu and press **OK** ( button.
"HS PIN : " is displayed.
- 2) Input "HS PIN" and press **OK** ( button to move into Reset submenus.
- 3) Select Settings menu and press **OK** ( button.
- 4) Press **OK** ( button to reset settings.

6.3.5.3 Reset Handset



- 1) Select Reset menu and press **OK** ( button.
"HS PIN : " is displayed.
- 2) Input "HS PIN" and press **OK** ( button to move into Reset submenus.
- 3) Select Handset menu and press **OK** ( button.
- 4) Press **OK** ( button to reset settings.
This menu includes the above two menu, Phonebook and Settings. And in addition, Clip, Dialed Call and HS PIN Number are deleted.

6.4 Appointment

This feature is needed to make an appointment with someone or for something important in future so that users can be informed by "Appointment" feature. If the appointment is not set yet, the handset displays "No Appointment Set".



- 1) Press the **Set** ( button to set appointment. "Daily", "Monthly", "Annual" are displayed.
- 2) You can set only one appointment among 3 kinds of appointments.
- 3) Press the **Set** ( button to set appointment.
- 4) Select the desired appointment and press the **OK** ( button.
- 5) For the daily appointment enter the time, for the monthly appointment enter the day and time, for the annual appointment enter the day, month and time. If you enter the wrong number, you can modify the wrong number with the **Delete** ( and the **LEFT/RIGHT** ().
- 6) If you finish entering the time(day, month), press the **OK** ( button to enter the text.
The text edit mode is displayed.
- 7) If you finish entering the text, press the **OK** ( button to finish. It is also possible to set the appointment without the text. And then the handset displays the time(day, month) and the text on the same screen.
- 8) text on the same screen.
- 9) You can change if the appointment is enabled or unable by pressing the **Enable/Unable** ( button, and the icon is also changed. There are 4 menu in the option menu. If you want to return to the idle mode, press  button.
 - Modify Date
 - Modify Text
 - Delete
 - View Text

6.4.1 Modify Date




- 1) Select **Modify Date** and press the **OK** ( button.
- 2) And then you can modify the time(day, month).
- 3) If you finish modifying date, press the **OK** ( button.

6.Programming Features




6.4.2 Modify Text

- 1) Select **Modify Text** and press the **OK** () button.
- 2) And then you can modify the text.
- 3) If you finish modifying text, press the **OK** () button.

6.4.3 Delete

- 1) Select **Delete** and press the **OK** () button.
- 2) And then “Delete the Appointment” is displayed.
- 3) If you are sure to delete, press the **OK** () button. If you don't want to delete the appointment, press the **Back** () button.

6.4.4 View Text


- 1) Select **View Text** and press the **OK** () button. Then you can see the text. If the appointment is already set, the appointment time (day, month) is displayed.
- 2) You can change if the appointment is enabled or unable by pressing the **Enable/Unable** () button, and the icon is also changed. There are 4 menu in the option menu. If you want to return to the idle mode, press **END** () button.
 - **Modify Date**
 - **Modify Text**
 - **Delete**
 - **View Text**

6. Programming Features

6.5 Phone Settings




There are 9 menus in this menu.

- Clock
- Alarm clock
- Keypad Tones
- Display
- Language
- Silent Mode
- Keypad Lock
- S/W Version
- Edit CO Code
- Missed Call Mode
- RangeOut beep

You can enter the desired menu by pressing the **OK** () button.

6.5.1 Clock

You should enter the present time to see the correct time in the phone.

- 1) Select **Clock** and press the **OK** () button.
- 2) Enter the date as day, month and year.
- 3) If you finish entering the date, press the **OK** () button. And then the time set mode is displayed.
- 4) Enter the time and press the **OK** () button to finish the clock set menu. And then the time is displayed on the LCD in the idle mode.




Note

If you can't see the time information on the phone, even though you set time in the Clock menu, please set Yes in the Clock Display menu.

In actually, this Clock menu exists for old systems which are not mentioned in this manual. If you set Yes for Clock Display menu, you can see the clock information not you set but same as the system.




6.5.2 Alarm clock

You can hear alarm sound in the desired time. Use, you should enter the present time at first and confirm the current time is correct.

- 1) Select **Alarm clock** and press the **OK** () button.
- 2) Change the alarm state to **Yes** or **No** with the **LEFT/RIGHT** () buttons, and then press the **OK** () button.
- 3) If the alarm clock is not set yet, the default alarm clock time is 07:00.

6.5.3 Keypad Tones








This function adjusts the keypad tone enable or disable.

- 1) Select **Keypad tones** and press the **OK** () button.
- 2) Change the keypad tone state to Yes or No with the **LEFT/RIGHT** () buttons, and then press the **OK** () button.

6.5.4 Display

- 1) **Contrast Set** Establish LCD contrast.
- 2) **Lighting Set** LCD Backlight.



6. Programming Features

- 3) **Dialing color** When you set this function each number is displayed on screen with a different color.
- 4) If you want to change the contrast, select Contrast Set and press the **OK** () button. And then change the contrast with the **LEFT/RIGHT** () buttons, and press the **OK** () button.
- 5) If you want to change the lighting, select Lighting Set and press the **OK** () button. And then select one of the menu, “**Standard**”, “**Always On**”, “**Always Off**”, “**Sleep Mode**”, and press the **OK** () button. "Sleep Mode" can be selected with "Standard" and will be inactive when you select other mode.
- 6) If you want to change the dialing color, select Dialing Color and change to Yes or No with the **LEFT/RIGHT** () buttons, and then press the **OK** () button.
- 7) If you set sleep mode to “yes”, phone will be turn off LCD after 1minute after LCD backlight turning off.


Note

Standard : the lighting turns off after about 20 seconds from the last key pressure.



6.5.5 Language

The four multi languages are provided. One of four, English, Italian, Spanish, Russian can be selected by pressing **LEFT/RIGHT** () button, and press **OK** () button. This sets only the language on the phone. To change language of system, you should refer to system programming manual.

6.5.6 Silent Mode


A user can make silent mode of the phone. Silent mode is set by pressing the  button more than 1 second when the phone is in idle state and then there is one time vibration. In silent mode, there aren't beep tones, key tones and rings. But for being conscious of incoming call there is phone vibration.

To cancel the silent mode, pressing the  button more than 1 second when the phone is in idle state, then confirmation tone is heard and silent mode function is disabled.



Silent mode can be enabled or disabled by pressing the **LEFT/RIGHT** () button, and press **OK** () button.

6.5.7 Keypad Lock

This function is to prevent from pressing any key unconsciously. In keypad lock mode, when a user receives a call, the mode is changed to the key-unlock mode automatically. When hanged up a call, the mode is returned to the keypad lock mode. A user can only receive an incoming call in this mode.

- 1) This function is set to ENABLE or DISABLE by Keypad Lock setting operation in Phone Setting Menu. The initial state is Unlock. Once this function is set to ENABLE, any key operation is not available except Unlock soft key. While setting this function, a user can receive a call if there is an incoming call.
- 2) You can also set Keypad Lock to enable by pressing  button in standby mode directly.

When key lock mode is set, “**Keypad Locked**” is displayed on the LCD and all keys can't be entered except for key-unlock procedure.

- 1) To release the locked key, press **Unlock** () button and **OK** () button.

6. Programming Features

6.5.8 S/W Version

Selecting this sub-menu displays current software version on the LCD.

6.5.9 Edit Co Code

A user can edit 4 CO access codes for each system.

This means CODE-1 is for Base 1, CODE-2 is for Base 2 and CODE-4 is for Base 4. It is used when you select CO code to “yes” in phonebook. In the case of “yes”, you need not insert CO access code like '0' in a telephone number. Automatically, this code number will be added for outgoing call.

Please, input the first CO line access code like '0' or '9' for each system. It is not recommended to input CO line access group code like '8801'. If you do not use the first CO line access code, you can not see matched phonebook name when you receive an incoming call from a system. It is because system sends a CID including the first CO line access code for GDC-400H.

6.5.10 Missed Call Mode




In the case of ring group, sometimes handset can get too many missed calls when other keyset answers an incoming call. If you do not want to display “XX missed calls” on the LCD in the case, you can disable to display missed call count by this menu.

6.5.11 Range Out beep

You can enable and disable a beep tone when handset is located in the range out area. If you enable this feature, you will hear beep tone every 3 seconds when you go to a location where system signal can not be reached for longer than 1 minute. When you go out of office all day long with wireless terminal, this warning feature will help for you not to forget to turn it off.

6.5.12 Clock Display





This function adjusts the clock display enable or disable on the idle screen. If you'd like to receive time information from your system automatically and see the clock information on the screen, please select 'Yes' in this menu and just do offhook and onhook on the phone. Then you can see the same time on the screen of the phone as the system.

- 1) Select **Clock Display** and press the **OK** () button.
- 2) Change the clock display state to Yes or No with the **LEFT/RIGHT** () buttons, and then press the **OK** () button.

Model		Applied version
MPB	LDK-50/100/300/600	From version 3.7
	LDK-24	
WTIB		From version 1.0O
WTIBE		From version 1.0Ba
GDC-400H		From version 1.0Ac

6.6 Direct Call

Emergency call is named. In set up mode, number is transmitted input any key.

- 1) Select Direct Call and press the **OK** () button.
- 2) Change the Direct call setting between Yes and No with the **LEFT/RIGHT** () buttons, and then press the **OK** () button.
- 3) If you select Yes, you can change the direct phone number, and then press the **OK** () button.

7.Key System Functions


7. Key System Functions

7.1 Call Park

A user can park using intercom call or CO line to CO line parking location.

7.1.1 Call Park

While connected to an outside call;

- 1) Press **TRANS** () button shorter than 1 second.
- 2) Dial a parking location.
- 3) The intercom call or CO line being used is on hold and the wireless terminal goes to an idle state.

7.1.2 Retrieving a parked call

- 1) Press **TALK** () or **Accept** () button.
- 2) Dial the parked location.

7.1.3 Parking Location Number

SYSTEM	PARKING LOCATION NUMBER
ipLDK-24	601~608
ipLDK-100	601~610
ipLDK-300/300E	601~619

7.2 Call Back

When you dial to a station that is busy or in DND mode, you can leave a call back indication message up to 5.


7.2.1 Call Back in case of Dialing to a Station in Busy State

- 1) After receiving intercom busy tone, press **CALL BACK** () button.






Note

If the busy station earlier goes to an idle state before pressing button, the called station will have a message from the system. About the message, see the below “Answer a Message Waiting Indication”.

When the busy terminal is idle, a reserved user’s terminal for call back will be ringing.

- 1) Answer the ring by pressing **TALK** () button.

7.2.2 Call Back in case of Dialing to a Station in DND Mode or No Answer







- 1) If you receive intercom busy tone or there is no answer after dialing to a station, press **CALL BACK** () button.
- 2) Then, if VMIB is installed in the system, a voice message is heard. Press “#” button to leave a message. If you want to stop leaving a message, press **END** () button. And if VMIB is not installed in the system, only a station message is left in the system for the called station.
- 3) A message icon is displayed in 3 minutes on the LCD of a reserved user’s station for call back.
- 4) If a call back message is displayed on the LCD, press **TALK** () **INT** () shorter than 1 second and then press **CALL BACK** () button to make a call to a station leaving a message.

7.Key System Functions

7.3 Answering a Message Waiting Indication

If a message is displayed on the LCD, it indicates that a message is left to you.

The first left message will be answered at first.







- 1) Press **TALK** ( button.
- 2) Press **CALL BACK** ( button.
- 3) The station that has left a message will be ringing if a station message has left.
- 4) If VMIB message has left, the first left VMIB message is heard. Press **HOLD** () button longer than 1 second to hear the next VMIB message again or press **CALL BACK** () button to hear the same VMIB message. After checking a message, if you want to erase the checked message, press **FLASH** () button .

7.4 Pick-up

This function is to pick up a call instead of another subscriber who is called. It can be used after programming at the attendant station.

7.4.1 Group Call Pick-up

When you hear an unattended phone ring,



- 1) Press **TALK** ( button.
- 2) Press  .
- 3) (ipLDK-24/100/300/300E : Press   .



Caution

A station should be in the same pick-up group with the ringing station.
This feature should be programmed at the Admin. station before using.
(See the pick-up function programming method at the ipLDK-24/100/300/300E WOTS programming manual)

7.4.2 Directed Call Pick-up

- 1) You hear intercom or transferred outside line ring at a particular station.
- 2) Press **TALK** ( button.
- 3) Press  and the station number of the ringing station.
- 4) It will be connected to the calling party.

7.4.3 Auto Pick-up

- 1) Press **TALK** ( button.





7.5 System Speed Dial

7.5.1 Storing Speed Dial Numbers

A user can use speed dial numbers stored personally in a station speed bin. One speed dial number can be dialed up to 24 digits.

- 1) Press **TALK** ( button.
- 2) Press **PROGRAM** ( button longer than 1 second.



7.Key System Functions

- 3) Press **SPEED** ( button shorter than 1 second.
- 4) Dial speed bin number. (ipLDK-24/100/300/300E: 000~099)
(Only available speed bin is displayed on the LCD. And only one speed bin number is displayed at every time using this function.)
- 5) Dial a phone number to be stored.
- 6) Press **PROGRAM** ( button longer than 1 second.
- 7) Enter the dial name.
(Refer to “programming a name into display”)
- 8) Press **PROGRAM** ( button longer than 1 second.
- 9) Press **END** ( button).
- 10) You can store speed dials by repeating the above procedure.






STOP!

- If all speed bins are stored, speed bin number is displayed as ‘000’ on the LCD.
- You can newly edit speed bin that is already used.

7.5.2 Using Station Speed Bin Numbers

- 1) Press **TALK** () button.
- 2) Press **SPEED** ( button shorter than 1 second.
- 3) Dial speed bin number (ipLDK-24/100/300/300E: 000~099).

7.5.3 Erasing Station Speed Bin Numbers



- 1) Press **TALK** ( button).
- 2) Press **PROGRAM** ( button longer than 1 second.
- 3) Press **SPEED** ( button shorter than 1 second.
- 4) Dial speed number bin to be erased.
- 5) Press **PROGRAM** ( button longer than 1 second.
(Confirmation tone will be heard)
- 6) Press **END** ( button).

7.5.4 Storing System Speed Bin Numbers

You can use commonly speed dial numbers stored in the system.

- 1) Storing system speed dial number can be done only at the admin station.
- 2) Available CO line can be assigned at that time storing system speed dial number.

7.5.5 Using System Speed Numbers

- 1) Press **TALK** ( button).
- 2) Press **SPEED** ( button shorter than 1 second.
- 3) Dial speed bin number.
(ipLDK-24/100: 2000~3499, ipLDK-300: 2000~4999, ipLDK-300E: 2000~6999).




STOP!

- When a user makes a call to some exclusive subscribers or all CO lines are reserved, error tone is heard.
- A speed dial number can be programmed as one that there is no limit about a long distance call. (Refer to “Digital Key Telephone System Installation and Programming Manual”)

7.Key System Functions

7.6 System Redial

7.6.1 To Redial Saved Number

- 1) Press **TALK** () button.
- 2) Press **SPEED** () button shorter than 1 second.
- 3) Press .






Caution

This feature doesn't work at the intercom call.

7.6.2 To Redial Last Number

The last dialed number to **outside lines** is saved automatically.

To redial the number,



- 1) Press **TALK** () button.
- 2) Press **SPEED** () button shorter than 1 second and press .
- 3) Press **UP/DOWN** () to find a phone number. (Max. 10 last dialed number can be stored in the directory)
- 4) To make a call, press **HOLD** () button longer than 1 second when the phone number is displayed.

Caution

This feature doesn't work at the intercom call.

7.6.3 Save a Current Number for Later Use

To save a number dialed for the next use;

- 1) Press **SPEED** () button (Press  shorter than 1 second) twice during a call.
- 2) If a used CO line is busy, a redial call is made through available another CO line out of the same group lines.

Caution

This feature doesn't work at the intercom call.


7.Key System Functions

7.7 Call Forward

When a user can't receive calls, a user can forward all user's calls to another subscriber's station.

- 1) Press **TALK** () button.
- 2) Press   
- 3) Press the call forward type:

Call Forward Type	Call Forward Condition	Call Forward Destination
0	Follow me	Station No.
1	Unconditional	Station, Intercom Group, or VMIB (#)
2	Busy calls	Station, Intercom Group, or VMIB (#)
3	No answer calls	Station, Intercom Group, or VMIB (#)
4	Busy/No answer calls	Station, Intercom Group, or VMIB (#)
5/8	Station off-net (Unconditional)	Speed Bin
6/9	Station off-net (No Answer)	Speed Bin
#	Remove	


- 4) Dial station number, intercom group, or # for VMIB where calls are to be received. (Confirmation tone will be heard.)
- 5) Press **TALK** () button.

- * In case of DVIB forward, recording a greeting message should be preceded.
- * In case of follow-me, dial Authorization Code after station number.

STOP!

- This feature lasts until canceled.
- This feature can't be used in DND mode.
- This feature can be used by a subscriber that has permission.
- This feature should be programmed at the admin station before using.

7.7.1 To Cancel Call Forward

- 1) Press **TALK** () button.
- 2) Press Call forward code (Confirmation tone will be heard.).



7.8 Do Not Disturb(DND)

When a user doesn't want to receive a call, this function can be used.

7.8.1 To Program Do Not Disturb (DND)

- 1) Press **TALK** () button.
- 2) Press   
- 3) (Confirmation tone will be heard)

7.8.2 To Cancel Do Not Disturb (DND)






- 1) Press **TALK** () button.
- 2) Press    Confirm    e heard.)

7.Key System Functions


7.9 Authorization Code

7.9.1 To Register Access Authorization Code

To prevent unauthorized outside call (DISA access or Trunk Access), a user can lock/unlock a station with an access authorization code.

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second and press  
- 3) Dial the station's 5-digit Access Authorization code.
- 4) Press **PROGRAM**  button longer than 1 second. (Confirmation tone will be heard.)







The Auth code for a terminal should be unique, if the code entered is already used by another terminal, error tone is heard and the message "INVALID" is displayed on the LCD.

- 1) Press **PROGRAM** ( button longer than 1 second. (Confirmation tone will be heard.)

Note

An access authorization code should be registered.

7.9.2 To Change Access Authorization Code

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second and press  
- 3) Dial the current Access Authorization code. (Confirmation tone will be heard.)
- 4) Press **PROGRAM**  button longer than 1 second. (Confirmation tone will be heard)
- 5) Dial a new 5-digit Access Authorization code.
- 6) Press **PROGRAM**  button longer than 1 second. (Confirmation tone will be heard.)






Note

An access authorization code should be registered.

7.10 Temporal COS(Class Of Service) Change

When a user is in a situation that a user can't receive a call, can make a user's station possible to make only intercom call by changing service of class. It prevents another one from making a call.

7.10.1 Blocking Outside Calls

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second and press  
- 3) Press **PROGRAM** ( button longer than 1 second (Confirmation tone will be heard).


Note

An access authorization code should be registered.

7.10.2 Restoring Outside Calls

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second and press  

7.Key System Functions

- 3) Dial the current Access Authorization code.
- 4) Press **PROGRAM**  button longer than 1 second (Confirmation tone will be heard).

Note

An access authorization code should be registered.

STOP!

- If a user forgets the access authorization code, only the admin station can restore it.

7.11 Universal Night Answer



When the system is in universal night answering mode, the subscriber's station which is not ringing can receive a CO line call.

- 1) Press **TALK**  button.
- 2) Press   



A user will be connected to ringing outside line.

7.12 Call Wait Voice Over(Camp-on)


When an intercom call is busy, alerting the busy station can be done by CALL WAIT. During the conversation (internal call or CO line call), the busy station is heard alerting tone (camp-on tone) which alerting another call is waiting. Voice over between two callers can be done by VOICE OVER.

- 1) If a user dials a busy station, CALL WAIT alerts call waiting to a busy station.
- 2) After receiving intercom busy tone, press  the last digit of the called station number.
- 3) The called station will hear camp-on tone. Then the called party can answers to a new call by pressing **HOLD**  button longer than 1 second.

When a busy terminal engaged an internal or external call is called through camp-on by a new caller,

- 1) Press **HOLD**  button longer than 1 second to connect to the other calling station.
- 2) The former calling party is on hold.
- 3) Press **HOLD**  button longer than 1 second to voice over back to the former calling party .

7.13 Answering a Call Wait with Voice Over

- 1) A user hears camp-on tone.
- 2) Press **HOLD**  button longer than 1 second to connect to the second call. The first call is placed on hold. A user will be connected to the first call when the second call is released.

7.14 Wake-up Call







7.14.1 To Register Wake-up Call

The system automatically sends ring signal to a station that already registered a wake-up time.






7.Key System Functions

Two kinds of wake-up call exist; effective for one-day or effective until canceled.

7.14.2 To Register Wake-up Time



- 1) Press **TALK** () button.
- 2) Press **PROGRAM** () button longer than 1 second.
- 3) Press   4 digits wake-up time (HHMM) in 24-hour mode.
(HH = 00~23, MM = 00~59)
- 4) Press  for permanent use. Otherwise it is set for just one time use.
- 5) Press **PROGRAM** () button longer than 1 second. (Confirmation tone will be heard)

7.14.3 To Cancel Wake-up Call

- 1) Press **TALK** () button.
- 2) Press **PROGRAM** () button longer than 1 second.
- 3) Press  
- 4) Press **PROGRAM** () button longer than 1 second. (Confirmation tone will be heard).

7.15 Step Call



Call the desired intercom party.

- 1) After hearing ICM busy tone, dial the last digit of desired intercom party in the same 10's group.(e.g. If you dialed a busy station '112', press  call station '114'.)
- 2) This feature can be used for external call by pressing "**SPEED**() + last digit".

7.Key System Functions


7.16 Paging

7.16.1 To page

- 1) Press **TALK** ( button.
- 2) Dial page zone. (See the below table. Confirmation tone will be heard.)
- 3) After the tone, speak in a normal tone of voice.
- 4) Press **TALK** ( button.






Page Zone	ipLDK-24	ipLDK-100	ipLDK-300/300E
All Call	549	549	549
Internal Zone 1~n	501~505	501~510	501~530
Conference Page Zone	506~510	511~515	531~535
Internal All Call	543	543	543
External Zone 1	545	545	545
External Zone 2	-	546	546
External Zone 3	-	547	547
External All Call	-	548	548

7.16.2 Answering Paging

- 1) Press **TALK** ( button.
- 2) Press    paging party will be connected.

7.17 Programming a Name into Display

A user can store program user's station name. The name will be displayed instead of ICM station number on the LCD of DKTU station.

- 1) Press **TALK** ( button.
- 2) Press **PROGRAM** ( button longer than 1 second.
- 3) Press  .
- 4) Enter the station's name. (See the below table. Up to 7 characters can be entered.)
- 5) Press **PROGRAM** ( button longer than 1 second. (Confirmation tone will be heard.)

A = [2][1]	B = [2][2]	C = [2][[3]	D = [3][1]	E = [3][2]	F = [3][3]
G = [4][1]	H = [4][2]	I = [4][[3]	J = [5][1]	K = [5][2]	L = [5][3]
M = [6][1]	N = [6][2]	O = [6][[3]	P = [7][1]	Q = [1][1]	R = [7][2]
S = [7][3]	T = [8][1]	U = [8][[2]	V = [8][3]	W = [9][1]	X = [9][2]
Y = [9][3]	Z = [1][2]	. = [1][[3]	, = [1][3]	: = [1][2]	
BLANK = [1][1]	0 = [0][0]	1 = [1][0]	2 = [2][0]	3 = [3][0]	
4 = [4][0]	5 = [5][0]	6 = [6][0]	7 = [7][0]	8 = [8][0]	9 = [9][0]

STOP!





- The keyset making an intercom call should have the LCD display.

7.18 Station Program Recovery

This function is to recover the previously programmed data. It will be certified by LCD display.

7.Key System Functions

The followings are programmed data to be recovered.






- Station number.
- Idle LCD message.
- Message icon.
- FORWARD message format.
- DND message format.
 - 1) Press **TALK** () button.
 - 2) Press **PROGRAM** () button longer than 1 second.
 - Press   confirmation tone will be heard. - Station number and idle message will be displayed on the LCD.
 - FORWARD and DND message format will be displayed on the LCD, if programmed.

The wireless terminal may be changed in the following situation after the above procedure.

- 1) When board configuration is changed.
- 2) When numbering plan is changed at ADMIN 01.
(ipLDK-24/100/300/300E : ADMIN 104)

7.19 Pre-selected Messages

A user can select a pre-assigned message to be displayed on the LCD of the calling terminal.






- 1) Press **TALK** () button.
- 2) Press **PROGRAM** () button longer than 1 second.
- 3) Press  .
- 4) Dial the number of desired message. Date, time or station number if required. (See the below table.)
- 5) Press **PROGRAM** () button longer than 1 second. (Confirmation tone will be heard.)

No.	Description
0 0	User Custom Message (See Programming User Custom Message)
0 1	LUNCH TILL / hh:mm
0 2	VACATION / mm dd
0 3	OUT OFFICE TILL / hh:mm
0 4	OUT OFFICE / mm dd
0 5	OUT OFFICE UNKNOWN
0 6	T) (Telephone No. up to 17 digits)
0 7	IN OFFICE / STA xxx
0 8	MEETING / TILL hh:mm
0 9	AT HOME
1 0	AT BRANCH / OFFICE
#	Cancel code
1 1~2 0	Are used for customized messages which are programmed by an attendant. (See "Creating Customized Messages")

7.20 Programming User Custom Message





A user may program a custom message to be displayed on the LCD of calling terminal.

7.Key System Functions





- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.
- 3) Press  .
- 4) (Confirmation tone will be heard.)
- 5) Enter the message. (Up to 10 letters can be entered by using codes shown in the above "Programming A Name Into Display")
- 6) Press **PROGRAM**  button longer than 1 second. (Confirmation tone will be heard.)

7.21 Functions Related with VMIB





7.21.1 Date & Time Prompt:

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.
- 3) Press  .







7.21.2 Station Number Prompt

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.
- 3) Press  .



7.21.3 Station status prompt

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.
- 3) Press  
 - A user will hear below items, (a-h). (c-g) items will not be heard unless they are activated.
 - Station number XXXX
 - Listed message X
 - Wake-up time XXXX AM or PM
 - Do not disturb
 - Forwarded to station XXXX
 - Forwarded to speed bin/STA/HUNT XXX
 - Locked (temporary COS change)
 - COS X

7.21.4 To record a greeting

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.
- 3) Press  .
- 4) Press # to start recording.
- 5) Press **PROGRAM**  button longer than 1 second or **END**  button.







7.21.5 To delete the greeting

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.

7.Key System Functions

- 3) Press  





7.21.6 To record a paging message

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.
- 3) Press  .
- 4) Press # to start recording.
- 5) Press **PROGRAM**  button longer than 1 second or **END** () button.

Caution

This feature should be programmed at the admin station before using.




7.21.7 To delete a paging message

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.
- 3) Press  .

7.22 Date/Time Display



* This feature is not available in ipLDK-24/100/300/300E.

A current date and time will be displayed as;

- 1) Press **TALK**  button.
- 2) Press **PROGRAM**  button longer than 1 second.
- 3) Press .

7.23 Linked Station Pairs

Two stations can be linked with each other by programming. When two stations are linked, the following functions are supported;

- 1) When a station is busy, the other idle linked station will not receive ring for CO lines, transferred ring or ICM calls.
- 2) If one of two linked stations receives ICM/DISA/DID calls, then the other linked station will receive ring together.
- 3) If any one station in a linked pair goes to DND state or pre-selected message display state, then the other goes to the same state automatically. Also, if any one station in a linked pair comes out of these states, then the other becomes to come out.
- 4) If one of two linked station is busy, the LCD of the other station will display “**IN USE AT LINK**”.
- 5) If you have set DND function, you should be sure that the wireless terminal be in DND state by pressing **TALK**  button after setting DND function. Otherwise, because the system sends setting information related to message of the wireless terminal about every 3 minute, you should wait about 3 minutes. When you canceled DND function, you should be sure that the wireless terminal be not in DND state by pressing **TALK**  button after canceling DND function for the same reason, too.

8. DECT Functions



8. DECT Functions

8.1 MOBILITY MANAGEMENT FUNCTION

8.1.1 Hand-Over


Once a call has been made, it is still necessary to change physical channels without release of the call. Frequency band or time slot can be changed due to quality degradation or interference, the associated base stations can be changed due to the mobility of a user in a multi-cell environment.

8.1.2 Range Out Indication

- 1) If the wireless terminal is getting too far from the base station to which it locks, then soft mute is occurred and warning tone will be heard once during a call or in an idle state. Then, "Range Out" message is displayed on the LCD as the left.
- 2) To maintain a call, move closer to the base station. Bear in mind that walls, buildings, and especially large metal surfaces have strong screening effects.
 - When pressing **TALK** ( button in out of range, the wireless terminal displays "Range Out" message on the LCD and goes to an idle state.
 - Pressing **TALK** ( button is ignored in state the wireless terminal is not locked.

8.1.3 Authentication

When the system requests authentication to a wireless terminal, a user should follow the following sequence to reply to the authentication. The authentication is requested by an attendant and the wireless terminal should have its authentication code (password) to answer the request. Refer to '**Authentication Code**' to register or change the password. "PIN;" message is displayed on the LCD of the wireless terminal when the attendant requests the authentication, a user should follow the following sequence.

- 1) Enter the password. *The storing and changing method of the password may be different according to the subscribed system.*
- 2) Press **PROGRAM** ( button longer than 1 second.

8.2 WIRELESS TERMINAL SERVICE FUNCTION

These features give a user convenience to use the wireless terminal more powerfully. These features include the functions operated by each feature button and the functions operated by *User Menu*. Please refer to '6.Programming Features' about operation.

8.2.1 Cradle On and Off Function (Charger Answer Function)

When the terminal is on the charger and an intercom or CO ring is heard, just lift up the terminal, and then a call will be connected. To hang up, just put the terminal on the charger, and then a call will be disconnected. This function is set to **Enabled permanently**.

8.2.2 Ear Microphone Button Function

If an Ear Microphone is attached to a GDC-400H, it can receive or release a call. Press the button on the Ear Microphone to receive the call while a ring sounds, and do the same action to release the call. Making a call by using the Ear Microphone is supported, too. If you press the button once on the Ear Microphone in the idle state, you can select one among the redial list and make a call if you press again the button.

- ※ Using noise canceling or unidirectional Ear Microphone /headset, whose Microphone impedance is below 1 K Ω may cause the abnormal operation (Self-answering without press button when incoming call and similar on-hook when if put Ear Microphone in/off in the middle of talking). In general, Ear Microphone impedance is 1~2.2K Ω .

9. Installation of Wireless Terminal

9. Installation of Wireless Terminal

- ❑ A user should do subscription procedure to use a wireless terminal with key system.
- ❑ The procedure is *an auto mode subscription*. A user has to get only AC from the system before subscription processing. The details are described in '**9.2 Subscription**'.

The wireless terminal is allowed to be subscribed to up to 4 GAP systems. If a user want to subscribe to over 4 systems, the wireless terminal should be desubscribed from one of the previous subscribed systems. The subscription procedure can be used for that by a user. Two kinds of method are provided to desubscribe the wireless terminal from the key system.

- ❑ The first is a desubscription in the system and the wireless terminal at the same time. The details are described in '**9.3 De-subscription I**'.
- ❑ The second is a local desubscription in the system or in the wireless terminal separately. The first procedure is recommended for a normal desubscription.

Warning

If a local de subscription is inevitably used by a user this should be informed to the attendant station in order to get rid of subscription information of a local de subscribed terminal in the system The details are described in '9.3 De-subscription II'.

9.1 System ID & Authentication Code

System ID is given to the ipLDK system attached the wireless terminal for identification. System ID, which is PARK(Portable Access Rights Key), is written on the WTIB Board(System ID of ipLDK system, which is PARK, is written on the MPB Board).

The detailed information is described in '*Installation Manual*'. Please, refer to the manual.

Authentication code is entered at only attendant station, before you begin to subscribe GDC-400H(GAP) to ipLDK system or Home-DECT base station. You should get AC and PARK from a system manager. The detailed information is described in '*Installation Manual*'.

In addition to the above, you should get station number of the wireless terminal to be subscribed from a system manager.

9. Installation of Wireless Terminal

9.2 Subscription

This procedure is for subscribing the wireless terminal to ipLDK-24/100/300/300E WOTS system.

To subscribe GDC-400H, you should follow two steps. The First step is making the system be in subscription enabled state. While the system is in subscription enabled state, you should second step. The second step is making GDC-400H to try to subscribe onto the system.

At the Attendant Station

TRANS/PGM + 0# + Flex. Button 1 + Station No. + Phone Type + **HOLD/SAVE**

- 1) Press **[TRANS/PGM]** button. (**[TRANS/PGM]** LED flashes, and **[MON]** LED lights steady.)
- 2) Press '0#'
- 3) Press Flexible button 1.
- 4) Enter the station number.
- 5) Enter the phone type.

System	Phone Type	Supported Software Version
ipLDK-24	Press '3' button	
ipLDK-100/300/300E	Press '1' button	Below 1.0Ba MPB s/w version or below 1.0G WTIB s/w version.
	Press '3' button	Above 1.0Ba MPB s/w version and 1.0G WTIB s/w version

- 6) Press **[HOLD/SAVE]** button and confirmation tone is heard.



Caution










Don't press **[MON]** button until subscription procedure at the wireless terminal is finished and subscription confirmation tone is heard.

9. Installation of Wireless Terminal



At the Wireless Terminal

Menu () + Select Phone Register menu + Select Subscription + Select empty BASE + **AC code** + **OK** ()

- 1) Press **Menu** () button.
- 2) Main Menu is displayed on the LCD.
- 3) Select Phone Register menu by pressing **Navigation** () button and **OK** () button.
- 4) Phone Register menu is displayed on the LCD.
- 5) Select "Subscription" by pressing **UP/ DOWN** () button and **OK** () button.
- 6) Select empty BASE number and press **OK** () button.
- 7) A user needs not to input **PARK** value. The wireless terminal tries to search for the registrable system and "**Searching..x**" is displayed on the LCD. After locking into the system, a RFPI is displayed on the LCD. Press **OK** () button if the RFPI of system is what your want to subscribe. Else, press **No** () button to make wireless terminal to search next system.
- 8) Enter **AC** code for subscription.
- 9) Press **OK** () button.
- 10) Success or failure of the subscription is notified with confirmation tone to the attendant and the wireless terminal.
- 11) If succeeded in subscription, the wireless terminal displays "**Subscription Done**" and its station number is displayed when you put wireless terminal into idle state.
- 12) If failed, repeat 3) ~ 6) steps of the attendant and 1) ~ 8) steps of wireless terminal.

Note

1. According to the system or radio channel environment, the system or the wireless terminal may not recognize that the system has the subscribed wireless terminal or the wireless terminal is subscribed to the system. Once a user has done subscription, try to make a call first. Then, if a user can't make a call, try to subscribe the wireless terminal again after doing local desubscription that is described in the following chapter.
2. If a user wants to subscribe the wireless terminal in Auto mode, it is recommended to remove all DECT systems except the system which the user want to subscribe to.
3. When a user tries to subscribe the wireless terminal continuously (in case of multiple subscription) in Auto mode or when the wireless terminal is reset (power reset or change of subscribed system), it is recommended to wait about 20 seconds, after that the wireless terminal is locked to the system and RSSI icon stops blinking, in order to try next subscription.

9. Installation of Wireless Terminal

9.3 De-subscription I

De-subscription makes a wireless terminal loose access right to the ipLDK-24/100/300/300E WOTS. To de-subscribe the wireless terminal, it should be in an idle state.

To De-subscribe

At the Attendant Station

TRANS/PGM

+ 0# +

Flex. Button 2 + Station No. +

HOLD/SAVE

- 1) Press **[TRANS/PGM]** button. (**[TRANS/PGM]** LED flashes and **[MON]** LED lights steady.)
- 2) Press **0#**.
- 3) Press Flexible button 2.
- 4) Enter the station number.
- 5) Press **[HOLD/SAVE]** button and confirmation tone is heard.
- 6) Success or failure of the de-subscription is notified with tone to the both attendant and the wireless terminal.
- 7) If succeeded in de-subscription, the below LCD message will be displayed if there is no subscribed system.

9. Installation of Wireless Terminal

9.4 De-subscription II

There is another way to de-subscribe locally. The subscription data of the phone (stored in MPB and WTIB or the wireless terminal) should be erased separately at both sides by **9.3 de-subscription I** procedure. But you lost a phone or MPB and WTIB by accident, you can use this procedure. Then, you should be more careful in doing this procedure. It is because this procedure is for abnormal case.

To De-subscribe users locally in the system

At the Attendant Station

To de-subscribe all of subscribed wireless terminal at once,

TRANS/PGM + 0 # + Flex. Button 7 + Password (147*) + **HOLD/SAVE**

Please, refer to 'Installation & Maintenance Manual' about "Password" in detail.

To de-subscribe one subscribed wireless terminal,



TRANS/PGM + 0 # + Flex. Button 8 + Station No + **HOLD/SAVE**








- 1) Press **[TRANS/PGM]**, then it will be the User Programming Mode (you will see the flashing **[TRANS/PGM]** LED (60 IPM Flash) and **[MON]** LED on).
- 2) Press 0#.
- 3) Press Flexible button 7 or 8.
- 4) Enter password or a station number.
- 5) Press **[HOLD/SAVE]** button, and confirmation tone is heard.

To De-subscribe locally in the wireless terminal



At the Wireless Terminal

Menu ( + Select Phone Register menu + Select Subscription + Select BASE to erase + **R/C** for longer than 1 second + **OK** ()

- 1) Press **Menu** () button.
- 2) Main Menu is displayed on the LCD.
- 3) Select Phone Register menu by pressing **Navigation** () button and **OK** () button.
- 4) Phone Register menu is displayed on the LCD.
- 5) Select "Subscription" by pressing **UP/ DOWN** () button and **OK** () button.
- 6) Select BASE number to erase and press **R/C** () button for longer than 1 second.
- 7) If you sure to erase, press **OK** () button.
- 8) If local desubscription is completed, phone goes to previous menu.

9. Installation of Wireless Terminal

9.5 Authentication

The process by which the identity of a user of the wireless terminal is checked by the system. The User Personal Identification (UPI), manually entered by a user, is used for user authentication.

To Authenticate a User

At the Attendant Station

TRANS/PGM + 0 # + Flex. Button 5 + Station No + **HOLD/SAVE**


- 1) Press **[TRANS/PGM]**, then it will be the User Programming Mode (A user will see the flashing **[TRANS/PGM]** LED (60 IPM Flash) and **[MON]** LED on).
- 2) Press "0 #" ('0 #' in ipLDK-24/100/300/300E).
- 3) Press Flexible button 5.
- 4) Enter a station number to be authenticated.
- 5) Press **[HOLD/SAVE]** button and confirmation tone is heard.



At the Wireless Terminal






When the attendant presses **[HOLD/SAVE]**, a message for authentication will be displayed on the wireless terminal with confirmation tone.

UPI (5 digit) + **OK**

- 1) Enter five-digit UPI.
- 2) Press **OK** ( button longer than 1 second.
- 3) Authentication result (fail or success) will be informed on the attendant's LCD with confirmation tone.

9.6 Change of Subscribed System

The wireless terminal may have subscription information for 4 systems at the same time. The last subscribed system information or the subscribed system information which is selected as the following steps is only available system information currently.

- 1) Press **Menu** () button.
- 2) The main menu is displayed on the LCD.
- 3) Select Phone Register menu by pressing **Navigation** () button.
- 4) Select '**Base Choice**' menu by pressing **UP/DOWN** () button.
- 5) The cursor is located at the current base number are displayed on the LCD.
- 6) If necessary, press **UP/DOWN** () button to select Base number and press **OK** () button when the base number that a user want to use is displayed on the LCD.
- 7) And then, the wireless terminal searches for the selected system.

10. Useful Information

10. Useful Information

10.1 System Specification

- Standard DECT/GAP
- Frequency band 1880~1900MHz
- Typical distance from a base station to a wireless terminal 70meters

Items System Name	1. Board Name	2. Max. Cell Number (Base Station Num.)	3. Channels/Cell
ipLDK-24	WTIB	3	2
	WTIBE	4	4
ipLDK-100	WTIB (MAX. 2)	4 (x 2)	5
	With WTIU (MAX. 2)	8 (x 2)	5
	WTIBE (MAX.2)	4 (x 2)	4
	With WTIUE (MAX. 2)	8 (x 2)	4
ipLDK-300/300E	WTIB (MAX. 3)	4 (x 3)	5
	With WTIU (MAX. 3)	8 (x 3)	5
	WTIBE (MAX. 3)	4 (x 3)	4
	With WTIUE (MAX. 3)	8 (x 3)	4
Items System Name	4. Registrable Max. Terminal Number	5. Max. Simultaneous Wireless Call	6. Applicable W version GDC-400H)
ipLDK-24	12	6	All version
	12	12 (16)	
ipLDK-100	8~80 by step 8	32	All version
	8~80 by step 8	64	
	8~80 by step 8	32	
	8~80 by step 8	64	
ipLDK-300/300E	8~192 by step 8	48	All version
	8~192 by step 8	96	
	8~192 by step 8	48	
	8~192 by step 8	96	

10.2 Hand-held Type Wireless Terminal (GDC-400H) Specification

Item	Spec
Size:	133mm ×44mm ×20mm(H ×W ×D)
Weight:	92g
Color:	Warm gray

10. Useful Information






Item	Spec
Maximum power:	250mW
Modulation method:	GFSK
Battery <i>Talking Mode:</i> <i>Standby Mode:</i> <i>Type:</i>	15 hours 150 hours DC 2.4V/920mAh (NiMH)
Programmable Ring Type:	Internal, External ring: each 9 kind
Display feature <i>Icon:</i> <i>Type:</i>	10 LCD, 65K color
Dialing mode:	DTMF
Phonebook	60
Speed dial numbers:	Phonebook Local: 60 System: Refer to 'Speed Dial' of ' 7.5 SYSTEM SPEED DIAL '
Re-dial numbers:	Local: 10
Operating temperature:	0 ~ +40°C

10.3 Charger(400-SSC) Specification

Item	Spec
Size	109mm ×109mm ×55mm(L ×W ×D)
Color:	Dark Black
Mounting:	Desk mount
Charging port:	1
Operating temperature:	0 ~ +40°C
Input power	From Output Power Adaptor
<i>Type -I</i>	AC 230V 50Hz 50mA input DC 12V 200mA 2.4VA output
<i>Type -II</i>	AC 220V/110V 50/60Hz input DC 5V 1.5mA output, DC12V 200mA output
<i>Type -III</i>	AC 184V~276V 50/60Hz input DC 5V 1.5mA 7.5VA output
Charging current:	Nominal 90mA
Indication:	Green color LED


11. Troubleshooting Guide

11. Troubleshooting Guide

Problem	Reason	Solution
LCD is empty.	No power	Check the battery then, press the POWER button.
“ NO CHANNEL ” is displayed when pressing TALK button.	No free channel	Wait until a free channel is released.
Small Voice	Small voice level	<i>While connected to a call,</i> ● Press UP button.
Small Ring	Small ring volume level	Adjust Ring volume level; ●  Refer to ‘ HS Setting ’.
“ UNREGISTERED ” is displayed on the LCD.	Not subscribed	Subscribe the terminal. ●  Refer to ‘9.2 Subscription’.
Low battery icon () is flashing on LCD with warning tone.	Low battery level	Recharge the battery.
Power-off right after power-on	Almost fully discharged battery.	Recharge the battery.
No tone is heard when pressing a digit.	No Base Lock State	Wait until Base Locked or move to a place with good RSSI ¹ .
	Tone Volume is off.	Adjust Key tone level; <i>In an idle state</i>  Refer to ‘ HS Setting ’
Unexpected call disconnect or call failure	Bad radio Environment.	Radio environment is changed unexpectedly even in the same place. Move to another place with good RSSI or wait until RSSI is recovered.
Different battery duration from the battery duration table	Bad charging habit or kept the battery inadequate place.	Charge and keep the battery according to the suggested ways.  Refer to ‘3.4 Charging the handset’.
Subscript can't be done.	<ol style="list-style-type: none"> 1. There is interference of other systems with subscription. 2. A station is too far from the terminal. 3. Wrong PARK value or (and) wrong AC code. 4. There is no available wireless channel. 	<ol style="list-style-type: none"> 1. Remove other systems. 2. Be sure a base station is close to the terminal. 3. Be sure PARK value and AC code is correct. 4. Wait until available wireless channel is free. If the subscription still fails, retry the power reset.

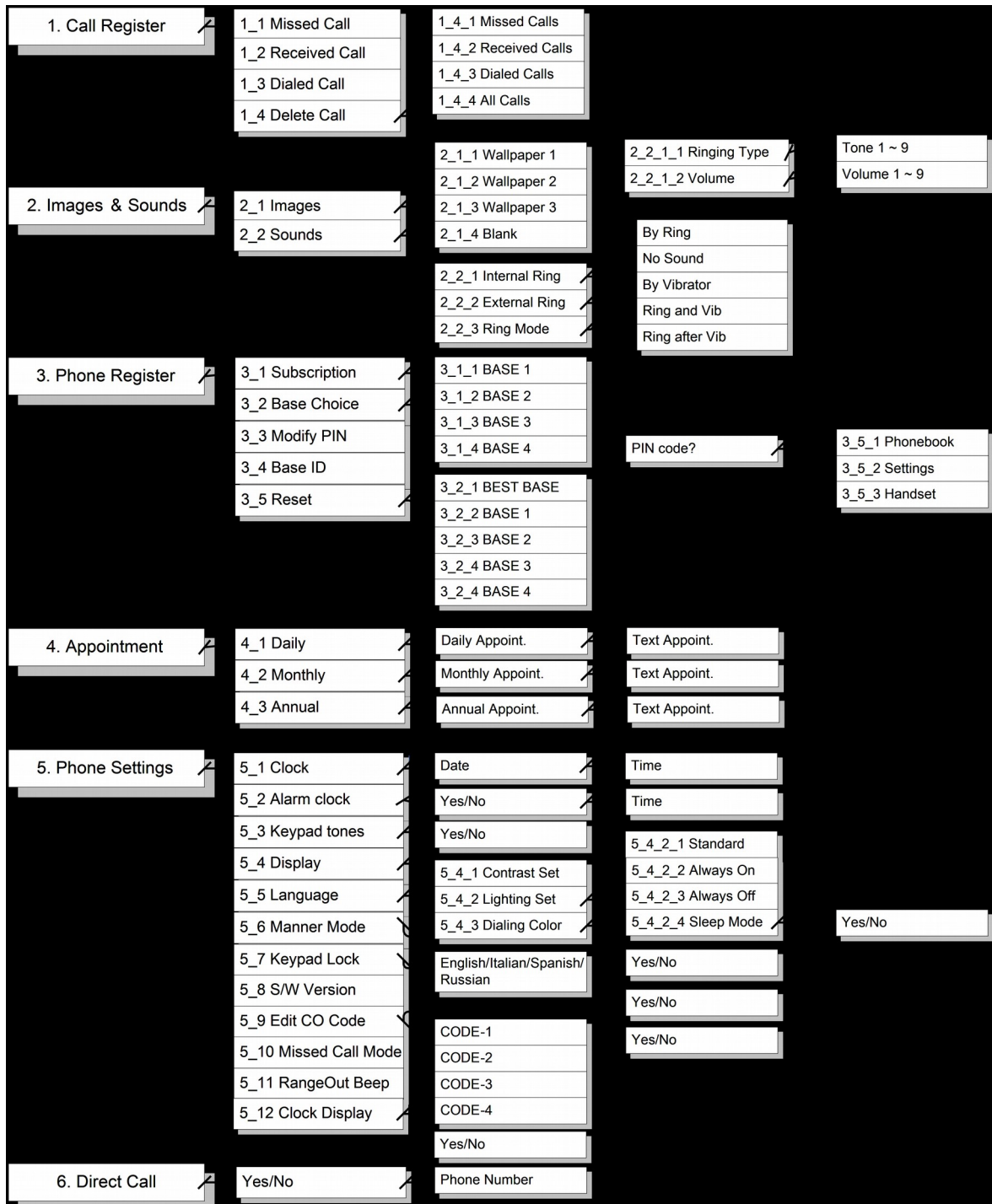
¹ RSSI : Radio Signal Strength Indication. Always a user can see RSSI icon while the terminal is operating.

11. Troubleshooting Guide

Problem	Reason	Solution
When pressing TALK button, Phone icon () is blinking several times and disappeared.	Subscription Disagreement	Do desubscribe locally in both sides, the system and the terminal and subscribe the terminal in the system again.
When pressing TALK button, nothing is happened.	Out of Range	<ol style="list-style-type: none">1. Be sure the terminal is locked to a base station.2. Be sure the system is operating properly.

Appendix

Appendix A. USER MENU TREE



Appendix

Appendix B. Function Short-Key Table

1. Function Short-Key Table related to *Key System Call Service*

* ipLDK-24/100/300/300E

FEATURE	INPUT KEY	
Call Transfer	(During a call) [TRANS] + STA # + END ()	
Call Waiting/Camp On	TALK () + STA # + (if busy tone is heard)	
Call Back	TALK () + STA # + [CALL BACK]	
Attendant Call	TALK () + 0 or TALK () .	
Paging	Internal Zone	TALK () + 5 + digit (Refer to '7.16. Paging'.)
	Internal All Zone	TALK () + 5 + 4 + 3
	Meet-me Page	TALK () + 5 + 4 + 4
	External Zone 1	TALK () + 5 + 4 + 5
	External Zone 2	TALK () + 5 + 4 + 6
	External Zone 3	TALK () + 5 + 4 + 7
	External All Zone	TALK () + 5 + 4 + 8
All Zone	TALK () + 5 + 4 + 9	
DND (Do Not Disturb)	TALK () + 5 + 5 + 3	
Call Forward	Follow Me	TALK () + 5 + 5 + 4 + 0 + STA # (only the station which has its password can activate this function)
	Unconditional	TALK () + 5 + 5 + 4 + 1 + STA # / Intercom Group # / # (for VMIB)
	Busy Calls	TALK () + 5 + 5 + 4 + 2 + STA # / Intercom Group # / # (for VMIB)
	No Answer Calls	TALK () + 5 + 5 + 4 + 3 + STA # / Intercom Group # / # (for VMIB)
	Busy/No Answer Calls	TALK () + 5 + 5 + 4 + 4 + STA # / Intercom Group # / # (for VMIB)
	Station Off-net (Unconditional)	TALK () + 5 + 5 + 4 + 5 + SPD BIN #
	Station Off-net (No-Answer)	TALK () + 5 + 5 + 4 + 6 + SPD BIN #
DND (toggle)/Call Forward Cancel	TALK () + 5 + 5 + 9 or 5 + 5 + 3/ TALK () 5 + 5 + 9 or 5 + 5 + 4 + #	
Call Parking Locations	TALK () + 6 + digit (ipLDK-300/300E: 01~19, ipLDK-100 : 01~10, ipLDK-24: 01~08)	
Call Pilot Number	TALK () + 6 + digit (ipLDK-300/300E: 20~67, ipLDK-100 : 20~34, ipLDK-24: 20~29)	
Pick Up	Group Call Pick Up	TALK () + 5 + 6 + 6
	Direct Call Pick Up	TALK () + 7 + STA #
VMIB	Record Greeting	TALK () + [PROGRAM] + 6 + 1
	Current Date & Time Prompt	TALK () + [PROGRAM] + 6 + 2
	Station Number Prompt	TALK () + [PROGRAM] + 6 + 3
	Station Status	TALK () + [PROGRAM] + 6 + 4
	Record Paging Message	TALK () + [PROGRAM] + 6 + 5
	Delete Greeting	TALK () + [PROGRAM] + 6 + 6

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FEATURE	INPUT KEY	
	Delete Paging Message	TALK(+ [PROGRAM] + 6 + 7
Universal Night Answer	TALK(+ 5 + 6 + 9	
CO Line Access	TALK(+ 8 + digit(ipLDK-300/300E : 01~72, ipLDK-100 :01~24, ipLDK-24: 01~08)	
Individual CO Line Access	TALK(+ 8 + 8 + digit (ipLDK-300 : 001~200, ipLDK-300E : 001~400, ipLDK-100 : 01~40, ipLDK-24:01~12)	
Station Speed Dial	TALK(+ [SPEED] + digit (000~099)	
Redial	Saved Number	TALK(+ [SPEED] + #
	Last Number	1. TALK(+ [SPEED] + * or [REDIAL] (This case is available only for CO line call.) 2. UP/DOWN] (▼ or ▲) 3. HOLD
Last Tel. Number Display	TALK(+ [SPEED] + *	
Saved Tel. Number Display	TALK(+ [SPEED] + #	
Wake-Up Call	Set function	TALK(+ [PROGRAM] + 4 + 1 + Time(hh:mm) + (# for permanent use) + [PROGRAM]
	Reset function	TALK(+ [PROGRAM] + 4 + 2 + [PROGRAM]
Authorization Code (Password)	Register	TALK() + [PROGRAM] + 3 + 1 + Password (5digits) + [PROGRAM]
	Change	TALK() + [PROGRAM] + 3 + 2 + The current Password (5digits) + New password + [PROGRAM]
Temporal Station COS Change (a password is necessary for this function)	Change	TALK(+ [PROGRAM] + 2 + 1 + [PROGRAM]
	Recovery	TALK() + [PROGRAM] + 2 + 2 + The current Password (5 digits) + [PROGRAM]
Programming User Custom Message	TALK() + [PROGRAM] + 5 + 2 + Input Message(within 23 characters) + [PROGRAM]	
Pre-Selected Message Display	TALK(+ [PROGRAM] + 5 + 1 + Digits(00~19, #) + [PROGRAM]	
Programming A Name Into Display	TALK() + [PROGRAM] + 7 + 4 + Station Name + [PROGRAM] + END()	
Call-by-Name	TALK(+ [SPEED] + [SPEED]	
Save Last Tel. Number	(During a call) [SPEED] + [SPEED]	
Entering CLI Message Display	TALK(+ [CALL BACK] + [UP/DOWN]	
Clear CLI Message Display	TALK(+ [CALL BACK] + [UP/DOWN] + [FLASH](C/R)	

Note

- REDIAL** : Press button.
- UP/DOWN** : Press button.
- TRANS** : Press button shorter than 1 second.
- PROGRAM** : Press button longer than 1 second.
- SPEED** : Press button shorter than 1 second.
- CALL BACK** : Press button.
- HOLD** : Press button longer than 1 second.

Appendix C. The LCD Messages Related To a Call

The followings describe messages displayed on the LCD of an attendant station and the

Appendix

wireless terminal in Talking Mode.

At the DKTU

1. NO RESPONSE

- 1) Description: After key system requests a call to the wireless terminal, if there is no response from the wireless terminal, this message is displayed on the LCD of DKTU.
 - 1 Called station: Power-off
 - 2 Called station: Out-of-svc area

2. NO CHANNEL

- 1) Description: There is not enough system resource. If the message is displayed frequently on the LCD of DKTU, the system should be installed more.
 - 1 There is no available RF channel: WTIB side
 - ♦ The reason is brought by WTIB.
 - ♦ All RF channels are fully used.
 - 2 There is no available PCM Hi-way; MPB side
 - ♦ The reason is brought by MPB.

3. INVALID

- 1) Description: When a station not subscribed is called. The reason is brought by MPB.

4. NO RESPONSE: STA xxx

- 1) Description: After key system requests a call to DKTU, if there is no response from the wireless terminal, this message is displayed on the LCD of DKTU.
 - 1 When a called DKTU does not respond;
 - ♦ The reason is brought by MPB.
 - ♦ It is not applicable to attendant station.

STOP!

The attendant station is not applicable for this case. When time-out is occurred, the call is released.

5. RELEASED: STA xxx

- 1) Description: After key system requests a call to the wireless terminal, if there is no response from the wireless terminal, this message is displayed on the LCD of DKTU.
 - 1 When a called WHTU does not respond;
 - ♦ The reason is brought by WTIB.

6. DESUB. Fail

- 1) Description: While the wireless terminal is desubscribed at the attendant station, the desubscription processing is really failed in MPBCOMM, DPS or WHTU.



Appendix

At the Wireless Terminal

1. NO CHANNEL

- 1) Description: There is not enough system resource. If the message is displayed frequently on the LCD of DKTU, the system should be installed more.
 - 1 There is no available RF channel.
 - 2 There is no available PCM Hi-way; MPB side
 - ♦ The reason is brought by MPB.

2. INVALID

- 1) Description: When a not subscribed station is called. The reason is brought by MPB.

3. NO ANSWER STA xxx

- 1) Description: When a call made to the wireless terminal, there is no response from the wireless terminal in the below case.
 - 1 Called station: When there is no answer for ringing,
 - 2 The reason is brought by MPB.

4. NO RESP. STA xxx

- 1) Description: When a call made to the wireless terminal, there is no response from the wireless terminal in the below case.
 - 1 Called station: Power-off
 - 2 Called station: In Out-of-Service area