WIT-400H

User Interface Operation Manual

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Jul. 28-2009



Part 15.19

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Part 15.21

Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

RF Exposure Statement

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

Part 15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/ TV technician for help.

REVISION HISTORY

ISSUE	DATE	BY	REMARK
0.1A	Jul.28 / 09	JM Choi	Preliminary Release

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PREFACE

The aim of this manual is to provide conceptual information on the use and operation of key phone system feature in WIT-400H.

Safety Instructions

WARNING! To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as the bathroom, swimming pool, etc.

Always store your phone away from heat. Never store your phone in settings that may expose it to temperatures less than 32°F or greater than 104°F, such as outside during a snow storm or in your car on a hot day. Exposure to excessive cold or heat will result in malfunction, damage and/or catastrophic failure.

Be careful when using your phone near other electronic devices. RF emissions from your mobile phone may affect inadequately shielded electronic equipment nearby. You should consult with manufacturers of any personal medical devices, such as pacemakers and hearing aides, to determine if they are susceptible to interference from your mobile phone. Turn off your phone in a medical facility or at a gas station. Never place your phone in a microwave oven as this will cause the battery to explode.

IMPORTANT! Please read the IEC SAFETY INFORMATION before using your phone.

Safety Information

Please read and observe the following information for the safe and proper use of your phone and to prevent any unanticipated damage by accident. Also, keep the user's manual in an accessible place at all times after reading it.

- Unplug the power cord and charger during a lightning storm to avoid electric shock or fire.
- Do not use your phone in high explosive areas, as the phone may influence high frequency devices.
- Do not put your phone in a place subject to excessive dust, and be careful to keep the minimum required distance between the power cord and heat sources.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it is dirty.
- Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose, as it may cause fire or electric shock.
- Hold the power cord plug firmly to plug and unplug the power cord. Ensure the plug is firmly connected. If it is not firmly connected, it may cause excessive heat or fire.
- Do not place any heavy item on the power cord. Do not allow the power cord to be crimped, as it may cause fire or electric shock.
- Be careful not to let the battery contacts touch metal conductors such as a necklace or coins. When shorted, it may cause an explosion.
- Do not disassemble or allow heavy impact to the battery as it may cause electric shock, short-circuit, and fire. Store the battery in a place out of reach of children.
- Using a damaged battery or placing a battery in your mouth, may cause serious injury.
- Do not place items with a magnetic strip, such as a credit card, phone card, bank book and a subway ticket, near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- Do not hold or let the antenna come in contact with your body during a call.
- Talking on your phone for a long period of time may reduce the call quality due to heat generated during use.
- Do not allow excessive vibration or impact to the phone.
- When you do not use the phone for a long period time, store it in a safe area with the power cord unplugged.

1. General Description

The WIT-400H is a small-sized, full-featured telephone that operates over 802.11b/g¹ network using VoIP(Voice-over-IP) technology.

The WIT-400H makes and receives calls to IPECS LIK system and PBX extensions.

1.1 Purpose

The following functional specification details the requirements for the development of a WIT-400H.

The features that are explained in this document describe the User Interface and specification for WIT-400H.

1.2 Topology

The WIT-400H is interfaced with LG-Nortel IPECS LIK system directly.



¹ 802.11b/g is IEEE standard for Wireless LAN PHY(Physcial)/MAC(Medium Access Control) specification under 2.4GHz band wireless network.

2. WIT-400H Toolkit

2.1 Hardware Design

The WIT-400H has the following features:

Twenty-seven (27) Fixed Feature/Function buttons

- Send and End Buttons
- Left and Right Soft Menu Buttons
- 4 Navigation and 1 OK Buttons
- System Feature Button
- Alarm/Morning Call Button
- Clear/Prev Button.
- STANDARD DIAL Buttons (1, 2, ~ 9, 0, *, #)
- Volume Up and Down Buttons
- PTT Button

65K Color Graphic LCD (176 x 220 dot matrix), Back Light Vibration / PTT 64 poly sound Intenna Headset jack Hearing aid compatible receiver

The RF portion of the project is based on the unlicensed 2.4 GHz to 2.483.5 GHz frequency band for wireless communications. The unit uses DSSS(Direct Sequence Spread Spectrum))/OFDM(Orthogonal Frequency Division Multiplexing) technology and be compliant with FCC part 15.

The diagram on the next page illustrates the WIT-400H button layout.

2.2 Basic Contents

	WIT-400H Handset You should be able to find MAC address tag at the back side of the phone
Contraction of the second seco	Rechargeable battery LG-Nortel logo should be displayed.

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	Travel adapter/power cable The one end is plugged into power tab, the other one is slotted into WIT- 400H jack.
	Hand strap
	Ear Microphone In the cable of ear-microphone, there is remote control button. It is useful for hand-free way operation.
	Desktop Holder Desktop holder will be provided as option.
User Manual	User Manual It provides for user how to use WIT-400H.

2.3 Option Contents

2.4 Diagram of the WIT-400H phone



WIT-400H Specification

Size: Weight: Color:	13.5 cm x 4.7 cm x 2 cm (H×W×D) 98g (include the battery) Black
Battery	
Talking Mode:	3.5H
Standby Mode:	60H
Туре <u>:</u>	3.7V, 1100mAh
Programmable Ring Type:	50 kinds
Display feature	
lcon:	12
Туре:	65K color graphic LCD
Dot:	176 x 220 dot matrix

3. Technical Specifications

3.1 Technical Specifications of WIT-400H

Description	Parameter	
Receive/Transmit Frequency	2.412 – 2.462 GHZ	
Talk Time	3.5 hour	
Standby Time	60 hour	
Output Power	± 20 dBm@IEE802.11b/g	
Operating Range	50m (In Office), 200m (Open Site)	
Operating Temperature	0 ℃ ~ 50℃	
Battery	3.7V, 950mAh	
	- 802.11b : 1, 2, 5.5, 11Mbps	
Transmit data rate	- 802.11g : 1, 2, 5,5, 6, 9, 11, 12, 18, 24, 36,	
	48, and 54 Mbps	
VoIP Protocol	SIP	
Codec	G.711(A/U Law) / G.729	
Wired Encryption	TBD (future : IPSec)	
Wireless Eneryption	WEP : Disabled, 64bit, 128bit 지원	
Wireless Encryption	WPA-PSK, WPA2-CCMP	
Compatible Systems	iPECS-LIK(50/100/300), iPECS-MG,	
Compatible Systems	iPECS-CM	
Wireless Standard	IEEE 802.11b/g	
Wireless Access Protocol	CSMA/CA	
Noise	Under –64dBm (IDLE State)	
QoS	IEEE 802.1 p/Q	

3.2 Functional Specifications of WIT-400H

Description	Parameter	
Screen Theme	4	
Key tone/Ring tone/Power-on/off tone Sound	50	
Transfer/Forwarding/Holding/DND/Mute/	Generic features	
Flex-key manipulation	S/W driven 12 buttons	
PTT(Push-To-Talk)		
Clock	Real-world clock	
Alarm/Timer		
SMS	Inbox/Outbox : 30 Draft : 10	
Call History		
Phone Book/Caller Group		
Speed Dialing		
Memo/Scheduling/Calculator	Personal Information Manager	

802.11b/g Wireless Network Setup	SSID / AP Probe
IPECS SIP setup	MFIM IP address
Conference call	3 way
MSG Callback	

3.3 Regulatory Specifications of WIT-400H

FCC Part 15.247 / IC RSS210 FCC Part 68 HAC/VC FCC Part 2 SAR EN300328 EN301 489-1/-17 EN60950-1 EN50360/361

MIC Approval

[Note]

The corresponding radio equipment (WIT-400H) can't service regarding to Life safety there is a radio cross possibility.

4. User Interface

This chapter explains the function of buttons, displayed Icon on the LCD and the features as the WIT-400H Phone of iPECS systems

4.1 LCD Display

The LCD of the WIT-400H has nine icons and 65K color graphic. The LCD shows different wireless states and displays visual feedback for the actions performed by user.



1) The display provides a user with visual feedback for all the actions performed by user.

4.1.1 Icon Display

On-Screen Icon		
Icon	Description	
Tail	Tells you the radio signal strength	
٩,	Call is connected	
%	No service. The phone is not receiving a system signal.	
8	Vibration mode	
	Vibration and Ring mode	
	You have receive a new text message	
ġ	The alarm has been set and is on.	
-	Manner mode (Quiet menu)	
	Tells you the status of the battery	

Top Menu Icons

lcon	Description
	1. Phone Book
ĥ	2.Sound
	3.Display
5-	4. Call History
	5. Message
SUN 12	6. Tools
	7. System
¢	8. Phone Setting

4.1.2 Idle Mode Display

Display in idle mode will be shown as follows.



Time : Displaying current timeDate : Displaying date (Month/day display is only supported)Rectangle : Displaying phone number or user greetings

The LCD display is divided into two parts; Rectangle area and Time/Date area. Within rectangle area, the status of WIT-400H is displayed. In an idle mode, only station number is shown as "**STATION 100**". Time/Date area displays time and date received from the system after successful registration.

4.1.3 Ringing / Call State Display

The display is like as follows



When a call is being tried, LCD display will be changed to (A). When you trying to a call, LCD display will be changed to (B). If you missed a call by your absent, the LCD display will be changed to (C) and If the caller's name and number are already stored in your phone book, the corresponding name appears with the number at absent display.

4.2 Buttons and Functions

4.1.1 Buttons and Functions

The WIT-400H has 10 digit buttons and 17 feature buttons.

- 1) Digit Buttons
 - 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
- 2) Feature Buttons

*, #, [SEND], [END], [UP], [DOWN],[LEFT],[RIGHT],[OK],[LSK],[RSK], [Hold/Save], [Clear/Prev], [Trans/PGM],[VOL UP], [VOL DOWN], [PTT]

Note: [LSK] means Left Soft Key and [RSK] means Right Soft Key.

The function of button is as followings;

Button Icon	Function	Description		
	[SEND]	Idle mode [SEND] shows Recent Calls.		
		Predial or after selecting call list or phonebook		

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0		✤ [SEND] makes a call.
0	[END]	During a call [END] release a call. In Menu mode [END] goes to idle mode.
CK at	Navigation Keys [LEFT], [RIGHT], [UP], [DOWN], [OK]	In Menu mode Avaigation keys navigate menu. In Idle mode ILEFT] goes to KTU menu. IRIGHT] goes to FLEX menu IUP] goes to Schedule menu DOWN] goes to message menu.
	[LSK]	LSK means Left Soft Key In Idle mode [LSK] is used as menu key and goes to main menu mode In Menu mode or others [LSK] is used to option or special menu keys.
•	[RSK]	 RSK means Right Soft Key In Idle mode [RSK] is used as search key and goes to search menu in phonebook. In Menu mode or others [RSK] is used to delete or special menu keys
Trans	[TRANSFER]/ [PGM]	Transfer a call to the other station It is used to Program keys
Hold Save	[HOLD]/[SAVE]	It is used to Hold and Save key
Clear /Prev	[CLEAR]/[PREV]	 In Menu mode It goes to Previous menu mode In Edit mode It delete previous input character.
(g)	*	 In idle mode Pressing longer than 1 second: goes to manner mode Pressing less than 1 second : display * Others mode Display *
#8	#	 In idle mode Pressing longer than 1 second: goes to phone lock mode Pressing less than 1 second : display # Others mode Display #

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	[VOL UP], [VOL DOWN]	 In idle mode It is volume up and down of the key tone. In voice mode It is volume up and down of the voice. In ringing mode It is volume up and down of the ring. 		
	РТТ	 In idle mode Press this button and hold, PTT works. Other parties of your PTT group can listen your speech If you release this button, PTT will be finished and you can listen. In voice mode This button doesn't work 		
0-9	Dial keys	Dial keys Standards dial buttons		

Memo) Manner mode is different with vibration mode. Manner mode affects all of rings and tones, but vibration mode affects only rings.

4.1.2 Ring and Message LED

The ring and message LED located at upper right side is turned on when an incoming call / a new message is received. When the ring OFF function is enabled, ring tone is not heard but ring LED is flashing. The ring LED solid on for a Message waiting indication.

4.3 Entering Text

You can enter alphanumeric characters using the keypad. For example, setting a name in the Phone Book, writing a message, scheduling events in the schedule all require entering text.

Following text input methods are available in the handset.

4.3.1 Changing the Text Input Mode

1. When you are in a field that allows characters to be entered, you will notice the text input mode indicator in the upper right corner of the display.

2. By pressing shortly, you can toggle and change the input mode among [Abc], [ABC], [T9Abc], [T9Abc], [T9ABC], [123], [abc]

4.3.2 Using the T9 Mode

The T9 predictive text input mode allows you to enter words easily with a minimum number of key presses. As you press each key, the handset begins to display the characters that it thinks you are typing based on a built-in dictionary. As new letters are added, the word changes to reflect the most likely candidate from the dictionary.

1. When you are in the T9 predictive text input mode, start entering a word by pressing keys '2' to '9'. Press one key per letter.

- The word changes as letters are typed ignore what's on the screen until the word is typed completely.
- If the word is still incorrect after typing completely, press the '*' key once or more to cycle through the other word options.

Example

Press '4', '6'. '6'. 3' to type Good

Press the '*' key to get Home

• If the desired word is missing from the word choices list, add it by using the ABC mode.

2. Enter the whole word before editing or deleting any keystrokes.

3. Complete each word with a space by pressing the '0' key.

To delete letters, press the [Clear/Prev] key.

Press and hold down the [Clear/Prev] key to erase entire words.

4.3.3 Using the ABC mode

Use the '2' to '9' keys to enter your text.

1. Press the key labeled with the required letter.

- Once for the first letter.
- Twice for the second letter
- And son on

2. To insert a space, press the '0' key once. To delete letters, press the [Clear/Prev] key. Press and hold down the [Clear/Prev] key to erase entire word

4.3.4 Using the 123 (Number) mode

The 123 Mode enables you to enter numbers in a text messages (a telephone number, for example).

Press the keys corresponding to the required digits before manually switching back to the appropriate text entry mode.

5. Telephone Features

5.0 Registration

The WIT-400H is recognized as one of the LIP phones by IPECS system. Likewise, the WIT-400H system is to be registered for successful call processing by IPECS system. The registration is accomplished in two phases; wireless LAN connection establishment, MFIM registration.

5.0.1 Wireless LAN connection

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SSID

SSID is used as an ID meaning by "*I am a member of family*" in 802.11b compliant wireless network. The WIT-400H should have the same SSID to one configured within an AP(Access Point). For setup SSID, please refer to subsection 6.5.4. About SSID in your office, you should contact network administrator.

5.0.2 MFIM setup

MFIM IP address

WIT-400H should know the IP address of MFIM to initially request registration. For setup of MFIM IP address please refer to subsection 6.5.5.

Network mask

Since MFIM of IPECS resides in wired network, network mask should be specified as well. For setup of MFIM network mask, please refer to subsection 6.5.5.

5.0.3 Rebooting WIT-400H

After the proper setup of both wireless LAN and MFIM IP address, just turn off the phone and turn it on. The WIT-400H will start registration and show its station number which is given by MFIM.

5.1 Basic Feature

User can use various telephone features with a WIT-400H registered to MFIM module in an iPECS system.

5.1.1 Turing the Power On and Off

Turning the Phone On

When pressing [END] () button, the power is turned on and the WIT-400H goes to an idle state.

The following describes the sequence of power-on:

- 1. Install a charged battery pack
- 2. Press for a few seconds until the blue light in the right upper of the phone is on and off.
- 3. WIT-400H shows power-on animation
- 3. WIT-400H tries to do locking the access point while blinking Antenna Icon and RSSI level.
- 4. If Antenna Icon and RSSI level stop blinking, it means all procedures for initial setup are completed.
- 5. WIT-400H searches MFIM and sends a registration message to MFIM.

6. if the WIT-400H receives REGISTER RESPONSE, store station number and display station number : Refer to Idle state LCD display.

Turning the Phone Off

To turn off the WIT-400H, press [END] (6) until the display turns off.

5.1.2 Making Outgoing Call

WIT-400H will not try to make an outgoing call.

Description

A user can make a call to a certain user in his systems or external party by dialing.

button is used to make a call. Currently, WIT-400H tries to make a call in only a case that you press button. If you just complete entering a number to dial up without pressing button,

Operation



- 1 Enter phone number to connect a call
- 2 Press Send key (💙)
- (3) Phone Icon (**b**) is show on the LCD during trying to connect.
- ④ The connection tone is heard when connection is completed.

Note : Even though an Ear-Mic is attached to a WIT-400H, a user can hear key tone sound through the Speaker not Ear-Mic.

Condition

- 1. If user dials a wrong digit, a user can erase last 1 digit by pressing **[Clear/Prev]** button once and if you want to erase all digits, press **[Clear/Prev]** button for longer than 1 second.
- 2. Every time pressing each button, it is displayed of the LCD.
- 3. If pressing side button [$UP(\triangle)$], [DOWN (∇)] during conversation, the receiving voice level is controlled.
- 4. When conversation is over, press **[End]** () button. Then the **phone** (•) icon is will be disappeared and then the call will be cut off.
- 5. Call duration time(HH:MM) is displayed on the LCD.

(HH = 00~23, MM=00~59).

5.1.3 Taking an Incoming Call

Description

When the phone rings or vibrates, press Send key (\mathbf{i}).



Operation

Incoming Ring \rightarrow Press [Send](γ) \rightarrow Connection.

- Incoming CO ring is heard and a message come from iPECS is displayed on the LCD.
- Notes : If an Ear-Mic is attached to a WIT-400H, it can receive an incoming call by pressing button on the Ear-Mic while a ring sounds. (LG-Nortel Ear-Mic only)
- Notes : Even though an Ear-Mic is attached to a WIT-400H, a user can hear incoming call ring tone sound through the Speaker not Ear-Mic.

Condition

- 1. When audible signals are heard, the call information will be displayed.
- 2. Caller Groups can be distinguished with difference ring type.
- 3. If pressing side button [UP (▲)], [DOWN (▼)] during conversation, the receiving voice level is controlled.
- 4. When conversation is over, press **[End]** () button to release the call. Then the phone () icon is will be disappeared and then the call will be released.

5.1.4 Using Manner and Lock Mode quickly.

Manner Mode (Quick)

Use the Manner Mode in public places.

1. When in the idle mode, activate the Manner Mode quickly by pressing 1. The for 3 seconds.

When the Manner Mode is set, the key tones are silent, and the phone is set to vibrate.

NOTE: The phone remains in Manner Mode even if you turn it off and back on.

NOTE: To cancel Manner Mode, press 🖾 to switch into Silence All or Normal Mode.

Lock Mode (Quick)

Use the Lock Mode to prevent others from using your phone.

1. In Idle mode, to activate the lock mode quickly, press *for* 3 seconds. *Lock mode setting* is displayed.

NOTE: To cancel the Lock Mode, Press [OK], Unlock, then enter your 4 digit password.

5.1.5	Mute.

The mute function prevents the other party from hearing your voice, but allows you to hear the other party.

1. Press Left Soft Key, Mute, during a call.



2. To cancel Mute, press Left Soft Key, Mute again.



5.1.6 Redialing Calls.

Press to redial the last number in your call history. Latest 100 phone numbers are stored in the call history list and you can also select one of these to redial.

5.1.7 Adjusting the Volume.

This Document Contains proprietary information and may not be reproduced or copied without express Written permission of a duly authorized representative of LG-Nortel Co.Ltd Use the side keys to adjust the earpiece, ringer, and key beep volumes. The upper key is used to increase the volume and the lower key is used to decrease the volume.

You may adjust the earpiece volume during a call.

The ringer volume can be adjusted through the menu.

The key beep volume is adjusted through the menu.

5.1.8 Signal Strength.

Call quality depends on the signal strength in your area. The signal strength is indicated on the screen as the number of bars next to the signal strength icon: The more bars, the better the signal strength.

5.1.9 Speed Dialing.

Speed dialing can be used speed dialing number saved in the phone by pressing digits for 3 seconds

5.1.10 Caller ID.

Caller ID lets you know who is calling by displaying the number of the person calling when your phone rings.

5.1.11 AP Probing.

WIT-400H has an ability to detect all reachable APs. It shows the list of SSIDs configured in the APs. User can choose one of them under his preference. On the AP probing, please refer to section, 6.5.4.

5.2 Key Phone Feature

5.2.1 Transferring the Call

Description

This function is to transfer the current call to another user.

Operation

1. Transfer a current call with dialing the number of CO or ICM.

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NOTE : A user can make either a .screened or unscreened transfer.

(Screened Transfer

When the called station answers, inform the transfer.

- Press **[End]** (6) to complete the transfer.
- (Unscreened Transfer

When the called station begins to ring,

• Press **[End]** () 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 Send button then a user will be connected with the transferred call again.

Condition

1. The Primary Call must be answered before transfer can be initiated.

5.2.2 Holding the Call

Description

A user can hold the current call and connect another call or receive a call by another user with being hold the present call.

Operation

□ To hold a call

On the call → Press Left Soft Key + 4.Hold menu or [LEFT] in navigation key + '*'



1. Press [Hold] to hold a present call. The hold music is heard to the held user.

□ To retrieve the call during a holding

Press Left Soft Key + 4.Hold menu or Press [LEFT] in navigation key + select Hold + [OK]



□ To hold a call and make a new call

After holding a call, Enter phone number and Press [Send] () key.

Condition

- 1. The Call must be answered before Hold can be initiated.
- 2. The WIT-400H will receive hold recalling after hold recall timer. At this time, WIP-Phone can answer the ring by pressing Send button.
- 3. Only 1 call at a time may be placed on hold
- 4. IPECS will provide hold music to the held user during holding
- 5. When there are several held lines , the user can select the held line with pressing number ([1] or [2] or [3]) or navigation UP/DOWN and [OK] .

5.2.3 Call Forward

Description

This feature provides a user the ability to forward calls under the certain condition. A user may forward a call to a certain station, station group, MFIM or an external party.

The following call forward types are supported.

- Unconditional, Busy, No-answer, Busy/No answer, Off-net, No answer Off-net

Operation

In Idle State + Press [Menu] + select {1. Call Forward} + [OK] + Enter Forward Type + Enter Station Number + Enter Wait time + Press **[OK]**.

Condition

1. When Call Forward is active, a station can make outgoing calls (internal or external) but cannot activate a Call back or Queue request.

2. Attempting activation of Call Forward will automatically deactivate any activate Custom Display Message. Active Call Back or Queue requests are not canceled.

5.2.4 Call Waiting

Description

Call Waiting is used to notify a busy station that an Intercom call is 'waiting'. The busy station is notified of the call waiting by "Camp-on" tone.

After receiving a busy signal, the calling station Camps-on to the called station. The called station, can respond by:

- 1. Answering the waiting call, placing the active call on Hold first.
- 2. Sending a Silent Message,
- 3. Activating One-Time DND, or
- 4. Ignoring the Camp-On tone.

Operation

During Called party is busy \rightarrow (*)

- ① If a user dials a busy station, CALL WAIT alerts call waiting to a busy station.
- (2) After receiving intercom busy tone, press \checkmark or the last digit of the called station number.
- ③ When a busy terminal engaged an ICM or CO call is called through camp-on by a new caller.
- (4) The called station will hear camp-on tone. Then the called party can answers to a new call by pressing [Send]().
- (5) Press [Send] () to connect to the other calling station. The former calling party is on hold.
- 6 MESSAGE come from IPECS is displayed on the LCD.
- T Press [Send](P) to back to the former calling party .

NOTE : Pressing End button to release the active call (CO call or intercom call)

5.2.5 Call Park

Description

A user can park using CO line to CO line parking location.

Operation

□ Call Park

While connected to an outside call;

Press [SYSTEM] + select {Flash} + [OK] + Dial a parking location.

① The CO line being used is on hold and the WIP-Phone goes to an idle state.

□ Retrieving a parked call

Dial a parking location + Press [Send]()

Parking Location Number

SYSTEM	PARKING LOCATION NUMBER		
IPECS	601 – 610 for MFIM, 601-619 for MFIME		

Notes : A Parking Location Area will be changed by LG-Nortel

Condition

- 1. Call Park is only applied to a user that is in talk status.
- 2. Call Park is only applied to a parking location area.
- 3. A parked number will be displayed on the LCD after timer LDK sends release command. (Display the LCD message come from IPECS)
- 4. WIP-Phone goes Idle state after receiving the RTI command.
- 5. Parked call will recall after time out.

5.2.6 Call Pick-Up

Description

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

Operation

□ Group Call Pick-up

A station can answer ("Pick-up") incoming and transferred Intercom, CO and IP calls ringing at another station in the same Station Pick-up Group. All ringing calls except for Private Lines and queue callbacks are subject to Pick-up by other group member stations.

In addition stations in other types of Station Groups, if allowed, may use Group Call Pick-up.

- 1. Dial the Group Call Pick-up access code 566.
- 2. Press [Send](**`**)

Note : 1) 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 IPECS programming manual.)

□ Directed Call Pick-up

A station may answer ("Pick-up") incoming and transferred Intercom, CO and IP calls ringing at another station. All ringing calls are subject to Directed Call Pick-up except Private Line and Queue Callbacks.

- 1. Dial the Directed Call Pick-up access code 7.
- 2. Dial the ringing station's intercom number
- 5. Press [Send](7)

Condition

5.2.7 Message Wait / Call Back

Description

User can activate a Message Wait Indication requesting a Call Back when calling a station that does not answer or is in DND. A station may receive a Message Wait from other stations in the system. The station receiving the Message Wait can return the call using [MSG/CALLBK] button or select Missed call in Recent Call and pressing [Send](

When a busy station is called, the user may request to be placed in a queue to receive a Call Back. When the called station returns to idle, the system signals the initiating station with Callback ring. When the user answers, the now idle station is called.

Operation

After receiving ringing back tone \rightarrow Press [SYSTEM] (left key in navigation) + select MSG/CALLBK} \rightarrow [OK] \rightarrow WIT-400H goes Idle.

Condition

5.2.8 Do Not Disturb (DND)

Description

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

Operation

To Activate Do Not Disturb(DND) Press [SYSTEM] (left key in navigation) + select {DND} button + [OK]

□ To Deactivate Do Not Disturb(DND)

Press [SYSTEM] (left key in navigation) + select {DND} button + [OK]

5.2.9 System Speed Dial

Description

This is the same function as implemented in iPECS with the title of "System Speed Dialing". Please refer to manual of iPECS.

□ To dial a Station Speed Dial Bin

- Press the [LEFT] in navigation key + '6'.
- Dial the Station Speed Dial bin (200~999 for the MFIM and 2000 to 4999 for the LiK300).

□ To redial last Station Speed Dial Bin

- Press the [LEFT] in navigation key + '6'.
- Press '*' to redial last system speed number.

□ To redial saved Station Speed Dial Bin

- Press the [LEFT] in navigation key + '6'.
- Press '#' to redial saved system speed number.

5.2.10 PTT Groups

Description

Each WIT-400H station is assigned to receive PTT announcements from each PTT group. A station can be assigned to any, all or no groups. This function makes WIT-400H join in a PTT group defined in iPECS.

Operation

PTT invoker

A user just press "PTT" button.

□ PTT receiver

The idle screen of the WIT-400H transits as follows, and the speaker is opened.

Condition

PTT group should be defined in the iPECS system.

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6. Menu Features

WIT-400H offers a set of functions that allow you to use and customize the phone. These functions are arranged in menus and sub-menus, accessed via the two soft keys marked left soft key (\bigcirc) and right soft key (\bigcirc)

Each menu and sub-menu allows you to view and alter the settings of a particular function. The roles of the soft keys vary according to the applications and services; the label on the bottom line of the display just above each key indicates its current role.



Press the left soft key to access the available menu

Press the Right soft Key to access the available search

6.1 Menu Display and Menu Tree

6.1.1 Main Menu Display



There are two options of main menu display; Arch style, List style.

Arch style is based on the Icon. Bigger Icon is indicated as current position of the menu items. This is

shifted to UP/DOWN with pressing navigation UP/DOWN or Side Key UP/DOWN. List style is based on the browse. These are same function but display method only is different. The WIT-400H changes its main menu display to the based on Icon or List. The display whether based on icon or list is selected as the user want. It is as documented which is based on the icon main menu display.

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6.1.2 Main Menu Tree



The following tree depicts the menu organization of WIT-400H.

6.2 Phone Book [Menu + 1]

This menu allows you to save and manage contact address information. The Phone Book functions provides functions to add a new address or search saved contact addresses by name, phone number and group.

6.2.1 Add New [Menu+1+1]



This menu allows you to add a new contact address. You can input contact address information including name, phone numbers, email address, group information items, hompage address, job information, personal bell, and memo

6.2.2 Search [Menu+1+2]

Name 🛃	
입 전 전 임 전 전	This menu allows you to search your contact addresses. Generally the search
홍길동	operation is performed by name. In the search window, the current search
	function and results for the search condition are displayed.
	You can change the configuration in the [Menu] menu so that you send a
d I	35
010-1234-5678	proprietary information and may not be reproduced or copied without express
Menu Select abc	iy uunongeu representative of DO-Noner Co.Dat

message, change search option, edit, and delete to the selected phone number. You can also make a phone call to the selected phone number by pressing [send] ().

6.2.3 Caller Groups [Menu+1+3]

Caller grøups	This menu allows you to manage group information. By default, there are 4
1 Family 2 Friend	groups: family, friends, business and school. You can edit and delete a group except 4 default groups. You can also configure ring tone for a group so that
3 Business 4 School 5 No group 6 All group	the group ring tone sounds when a call from a specific contact address within that group arrives and there is no ring tone configured for the contact address.
Menu Select	

6.2.4 Speed Dials [Menu+1+4]

Description

Speed dialing allows user to make an outgoing call at a specific number through pressing down by either one or two button(s). Both the number and an associated button are to be registered in the "Speed Dials" submenu in "Phonebook" menu.

Since it is originally intended with one or two buttons maximally, user can associate 99 phone numbers with speed buttons; from $1 \sim 99$.

Operation

□ Associating a phone number with Speed Dial button.

Select [PhoneBook] + Select [Speed Dials] + Select a number to be speedy dialed + [OK]

	Speed dials	Sp	eed dial	s
1	[Empty]	1 🖻 입 ?	억정	
2	[Empty]	🛛 [Emp	ty]	
3	[Empty]	🖪 (Emp	ity]	
4	[Empty]	🖪 [Emp	ity]	
5	[Empty]	5 (Emp	ity]	
6	[Empty]	6 [Етр	ity]	
		010-1234-5678		
	Add	Option	Infø.	Change

□ Making a call

Suppose that you associated phone number "123" with speed dial "1", Enter a speed dial number from 1 to 99 and Press [Send].

Condition

Only the number in the Phone Book can be registered in the list of speed dial.

6.2.5 Delete All [Menu + 1 + 5]

This menu deletes all saved phonebook address information.

6.3 Sound Setting [Menu + 2]

You can configure voice/vibration ringtone, key tone, sound effect, and volume. Sound menu have the submenus as shown below.



Alert by

This menu determines the incoming call notification mode. You can select from Crescendo, Ring, Vibration, Ring after vibration, Ring & Vibration, Mute, and Vibrate once.

Ring Tone

This menu determines the ring tone for incoming call notification. WIT-400H supports 50 different ring tones.



Ring Tone Volume

This menu determines the ring tone volume for incoming call notification.

Power-on Tone

This menu determines the switch on effect that is sounded when the WIT-400H is turned on.

Power-off Tone

This menu determines the switch off effect that is sounded when the WIT-400H is turned off.

Key Tone



This menu determines the key tone that is sounded when a key is pressed.

Key Tone Volume

This menu determines the volume of the key tone.

Effect Sound

This menu determines the confirm tone that is sounded.

6.4 Display Setting [Menu + 3]

In this menu, you can configure screen display options including Screen settings and themes.

Screen Theme

Screen playback in an idle state is defined here.

Greeting Note

You can configure the statement below in the idle state



Idle Clock

You can configure the font size and color of the clock displayed on the main screen. You can configure size to Do not show, Small or Large. If Small or Large is selected, you can set the color using the color chart.

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Dialing Font

You can configure dialing font size and color

Menu Style

You can configure the menu style to Grid style or List style.

BackLight

Use this to select whether or not the phone uses the backlight.

Item	Default Value
Standard	LCD duration : 10 sec
	LCD brightness : Brightest
Saving	LCD duration : 5 sec
	LCD brightness : Bright
Ultra Saving	LCD duration : 5 sec
	LCD brightness : Normal
User settings	LCD duration : 5sec, 10sec, 20sec, 30sec,1min, 3min, Always On
	LCD brightness : Normal, Bright, Brightest

Font Type

You can choose two kinds of font, cyon and spring

Language/언어

You can choose 7 languages including English

6.5.1 Call History

You can check out the recent call record by pressing the **[send]** (). Each icon show you the type of the recent calls registered in the list. The call record provides the following functions.

(see following page for icon description)

- You can save the number in the call record to the Phone Book.
- You can send a message to the number in the call record.
- You can view detailed information about the call records such as the date, time and call duration
- You can clear call records.

	Call List	t	
1 🤓 118	}		
🛛 🌿 Sea	in		
3 🔮 120)		2
🖪 🌿 112	2		: Dialled
🗗 🌿 - 112	2		
6 🏆 120			
8			: Receiv
Unregist	tered		
Menu	OK	Delete	

Also, you can separately check out missed, received, dialed and entire call records in "Call History" sub menu in "Call History"



6.5.2 Call Duration

This menu allows you to check out the duration of the Recent call, Received calls, Originated calls and All calls



6.5.3 Call Setting

You can choose an answer mode by using the "Answer mode" menu in the "Call Setting" menu





The "Call Volume" menu allows you to adjust the call volume



	Call Setting	
1	Level	
3	•••••	
	Level 7]
	OK	

The "One minute alert" menu allows you to choose whether you get an alert minutely



	Call Setting					
1	One minute alert					
2	11 On					
3	2 0ff					
UK						

6.6 Messages [Menu + 5]

A user can send/receive short text message to/from others.

6.6.1 Write Message

You can write and edit a single text message up to 100 characters and send a message to maximum 20 different numbers.

A user can send a text message through this menu.

Condition

- 1. You can not assure message sending.
- 2. If a message is sent all wrong destination, LCD displays 'Access Denied'
- 3. You can save the message to draft box.
- 4. If you receive a incoming ring during writing a message, you will lost a message.

6.6.2	Inbox			

A user can browse the messages stored in his mail box. Any messages arrived in the WIT-400H is stored in this mailbox.

Condition

1. You can get maximum 30 messages. If you does not delete messages, you can not receive more messages.

6.6.3 Outbox

You can view sent messages. Select a message and then press the **[OK]** key to view the message. Messages are stored in this mailbox even if you does not success message sending. You can hold maximum 30 messages in this mailbox.

6.6.4 Draft

You can view saved messages. Select a message and then press the **[OK]** key to view the message. You can hold maximum 10 messages in this mailbox.

Condition

1. You can view saved messages in case you save to draft during writing a message.

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6.7 Tools [Menu + 6]

6.7.1 Schedule

Scheduler keeps your agenda convenient and easy to access. Simply store your appointments and your phone alerts you with a reminder of your appointment. You can also take advantage of the Alarm Clock feature. You can make 500 schedules.

Monthly Schedule Management

•	2009/8					
SUN	MON	TUE	WED	тнц	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					
Men	u	S	elec	t		Add

- 1. Select the Tools form the top menu.
- 2. Select Schedule and press the key.
- 3. The monthly view is displayed.
- Initially, the cursor appears on today's date according to your WIT-400H settings.
- 5. You can move the date cursor to the desired location using the up, down, left and right navigation keys.
- 6. On a date where a schedule item, anniversary or birthday is

saved, corresponding icons and the number of saved schedule items are displayed on the

bottom left of the screen

Adding a New Schedule Item



- Select the left soft key [Menu] in the Monthly schedule management screen, select the Add from the popup menu and then press the key. Alternatively, select the right soft key [Add] in the Monthly schedule management screen.
- 2. Input the desired date using the numeric keys.
- 3. Input the desired time using the numeric keys.
- 4. Input the subject
- 5. Select the schedule item type using the left and right navigation
- 6. Select the repeat type using the left and right navigation keys.
- 7. Select the alarm type using the left and right navigation keys.
- 8. Press the ^{CC} key to save the new schedule item.

Condition

1. We support time formats yyyy/mm/dd, mm/dd/yyyy or dd/mm/yyyy.

Deleting a Schedule Item

	ØK		
5Go ta	o Date		
4 Searc	ch		
3 Del et	te	28	29
2 Add		21	22
1 Holid	day	14	
	_	7	
•	2009/	8	•

- 1. Select the left soft key [Menu] in the Monthly schedule management screen, select Delete, and then press the extension key.
- 2. Popup menus including Delete past, Multiple delete and Delete all will be display
- 3. Select Delete past and press the . key to delete all schedule items prior to today.
- 5. Select Delete all, and press the . key to delete all of the schedule items.

Condition

2. Delete past does not delete schedules prior to current time today.

Set holiday



1. Select the left soft key [Menu] in the Monthly schedule management screen, select Holiday and then press the extreme key to display the Holiday configuration popup window.

- 2. Supported holiday types include On the day, Weekly, Monthly, Annually and Multiple setting.
- 3. Select the holiday configuration type and press the extreme key to configure the holiday.
- 4. The date corresponding to the configured holiday is represented in green in the Monthly schedule management screen.

Condition

- 3. Weekly set holiday during 52 week.
- 4. Monthly set holiday during 12 month.
- 5. Yearly set holiday during 5 years

Searching for a Schedule Item

Select the left soft key [Menu] in the Monthly schedule management screen, select Search and then press the skey to display the Search schedule items screen.



- 1. Input the desired subject of the schedule item to find
- 2. Select the schedule type to find.
- 3. Press the we key
- 4. If there are schedule items that meet the search criteria, the schedule items are displayed. If there is no schedule item satisfying the search criteria, No match schedule Item message appears.

Moving to a Specific Date



- Select the left soft key [Menu] in the Monthly schedule management screen, select Go to date and then press the key to display Go to date window.
- 2. Input the desired date to move to and press the . key.
- 3. The date cursor of the Monthly schedule management screen will then move to the specified date.

Go to Today

- 1. Select the left soft key [Menu] in the Monthly schedule management screen, select the Today and then press the extension key.
- 2. The date cursor of the Monthly schedule management screen will then move to today's date.

6.7.2 Memo

This menu allows you to write down small amount of manuscript of what you have to remember. You can make 30 memos.

Memo		0%	New Mem <i>o</i>	abc
Press 'Add' for new memo	Add	Cont µ	ent	
Ad	d	Menu		abc

Saved Memo's

- 1. Select the Tools from the top menu.
- 2. Select the Memo item and press the . key
- 3. The saved memo list is displayed.

Memo Add

- 1. To add a new memo, select Add using the left soft key [Menu] in the Memo screen or select the right soft key [Add].
- 2. Input the contents of the memo to be saved.
- 3. Press the extension key to save the memo.

Memo Delete / Delete All

- 1. Select the desired item to delete from the Memo list and select Delete using the left soft key [Menu] to delete the memo.
- 2. Select Delete all using the left soft key [Memo] to delete all the saved memos.

6.7.3 Alarm Clock

The alarm function allows you to set up multiple separate alarms. You can also set the time, repetition interval and alarm sound. You can make 3 alarm clocks.

ln⊴	Insert Alarm 123					
	Ρ	м 01:32				
Θ	AM	<mark>09</mark> :00				
Э	Ŧ	Once	•			
٠	•	Default	►			
Ę,	Mem	0				
Ō	•	Ûn	•			
		Done	РМ			

- Select your desired alarm to configure in the alarm list. If there is no alarm, press the right soft key [New] to add a new alarm.
- Input alarm time: Input your desired alarm time by specifying hour and minute. If the time format is 12 hours-based format, you have to select either 'am' or 'pm' using the right soft key.
- Select repeat mode: Select desired repeat mode using the navigation key.
- Select bell: Select the bell to use for the alarm using the navigation

key.

- Input memo: Input alarm name.
- Set/Cancel alarm: On or Off the alarm using the navigation key.

When you have completed configuration, press the *w* key to save the changed alarm configuration.

Note:

- 1. The alarm function does not work if the handset is turned off.
- 2. During voice call, the alarm works in vibration mode.

6.7.4 Calculator



The calculator function allows you to add, subtract, multiple and divide. You can input numbers using the number keys, and operators using the up, down, left, and right navigation key.

You can input a decimal point by pressing the left soft key.

Whenever you press the **[Clear/Prev]**, characters are sequentially deleted in reverse direction.

6.7.5 World Time

The World Time function provides time information on major cities worldwide.



- 1. You can view the time of desired country or city using the navigation
- 2. You can select a desired city as home using the {Home} key.
- 3.

Note:

1. In the list, you can not go to a wanted list by pressing dial button in case of more than 9.

6.7.6 D-day





D-day finder

The D-day finer shows the number of remaining days until the specified day of event.

D-day Counter

You can make 20 D-day counters.

- 1. Select the D-day Counter menu.
- 2. Select the desired item in the list to view Title, target date on days remaining.
- 3. Press the extreme key to view the list.
- 4. Press the right soft key [Add] to input title and new date. Then press the . key to add the item in the list.

6.8 Settings [Menu + 8]

6.8.1 Profile Setting

This menu allows you to set a Wireless Network Profile

Add a Profile

You can start to add a profile by pressing the 'Add' soft menu on the profile setting screen or "802.11b/g config" screen shown by pressing the right navigation key in an idle mode.

Step 1. Add Profile

You should fill up the profile name and the network name.



Step 2. Security Setting

You can set security or skip this step by choosing 'NONE'



Step 3. 802.1X Authentication

You can set 802.1X Authentication values or skip this step by choosing 'NONE'



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Step 4. NETWORK setting

You can choose DHCP or set a Static IP, Subnet IP, GW IP and DNS name.

Network			_	ŀ	letwor
Netwo	rk		N	etwork	
(DHCP	•	•		STATIC
				IP Addı	ess
				Subnet	
ack	Save		Bac	k	Save

After saving a profile, It will be converted to idle mode.

The name of the profile you saved is the name of Wireless Networks

Edit a Profile

You can edit a profile by choosing a 'Edit' menu of the 'Menu' soft menu

Remove a Profile

You can remove a profile by choosing a 'Delete' menu of the 'Menu' soft menu

Change Priority

You can change a priority by choosing a 'Change priority' menu of the 'Menu' soft menu

Choose a Profile

You can choose a profile by pressing the 'OK' key

6.8.2 SIP Setting

The user data for registration is set in this menu.

SIP Setting	SIP Setting
Phone Number	SIP Domain
111	192,168,123,1
Password	Proxy IP
***	192,168,123,1
SIP Domain	Proxy Port
192,168,123,1	5060
Back Save 123	Back Save

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Phone Number

Phone number for registration

Password

The password which is set in the system

SIP Domain

The IP address of the system

Proxy IP

The IP address of the system

Proxy Port

The port number for SIP signaling (default: 5060)

6.8.3 **Provisioning Setting**

The provisioning server IP, user ID and password can be set in this menu for auto provisioning.

Note) This feature support from iPECS-LIK v5.5.

6.8.4 Wireless LAN Setting

This menu allows you to set Wireless LAN values Roaming Level, Roaming Sensitivity and Roaming DeltaSNR

6.8.5 Security

Security options are provided to lock the WIT-400H for privacy. When one of the lock mode is enabled, the user should enter password in advance of normal operation.

Lock Phone

You can lock the phone. If you lock the phone, WIT-400H asks you to enter password on trying to use it. You can also change the password for the lock mode here.

[Password Management]

For new password setting, a user should enter two items; a new password and an asking to be questioned when he will change the password. When he forgot both of them, he should contact the seller.

6.8.6 Wireless LAN Status

You can check out a Wireless MAC address, SSID, Signal, Security and Channel

6.8.7 Network Information.

You can check out Wireless Network Information, Such as IP, Subnet Mask, Gateway and DNSs

6.8.8 S/W Version.

You can check out The S/W version of the WIT-400H

6.8.9 Reset Settings.

This menu allows you to initialize the WIT-400H