# Wireless Local Loop

# **Fixed Wireless Termial**

HWP130& 230 User's Guide

·WYUNDAI

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#### 1. Introduction

The WLL (Wireless Local Loop) terminal is designed to provide users with full range of communication services in CDMA (Code Division Multiple Access) networks. Before using the product, please read carefully this chapter.

#### HWP -130/230 Main Features

-1S-95B support

Data rate: 64kbps (max)

Backward compatibility

New Soft Handoff Algorithm

Enhanced Hard Handoff

True IMSI (International Mobile Subscriber Identification)

-. IS-707 Data Capability

PC Fax Transmitting/Receiving

Modem Origination/Termination

- -. Internet Access
- -. Speed Dial
- -. Emergency Call Hold
- -. Hot Line
- -. Alarm Reminder
- -. Battery Backup
- -. Line Signal Tone

Dial Tone

Warning Tone

Howler Tone

- -. Security
- -. OTASP(Over-the-Air-Service Provisioning)/OTAPA(Over-the-Air-Parameter Administration)
- -. SMS (Short Message Service)

VMS (Voice Message Service)

Page Service

Message Service

-. Vocoder Select

8K QCELP (Qualcomm Code Excited Linear Prediction)

**EVRC** 

13K QCELP

- -. Call Waiting \*
- -. Call Forwarding\*
- -. Call Transfer \*
- -. Three-way Calling\*

<sup>\*:</sup> System dependant

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#### 1.1 Notices for Using

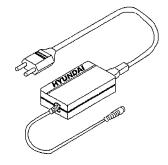
- . Do not disassemble or alter the WLL terminal on your own.
- Do not touch antenna during the call.
- Do not hold the WLL terminal in hot or moist places. Be careful not to moisten the terminal or to spill any liquid on it. This may cause irrevocable damage.
- · Avoid terminal shocks and vibrations. Store the terminal in a safe place.
- Do not use the terminal near to explosives or in places where combustible liquids are used.
- Do not wipe the WLL terminal with a chemical solution like solvent or thinner.
- Switch off the WLL terminal and remove the SMPS (Switch Mode Power Supply) when you do not use the terminal for long.
- The backup battery can be operated after having being charged long enough (more than 30 hours). Otherwise it can discharge.
- The backup battery can be used only when the power is on.

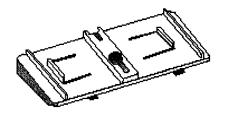
#### 1.2 Checking the Package

Thank you for buying our product. Please check whether the product package contains the following accessories:



\* Accessories





- Switch Mode Power Supply (SMPS) Unit -

- Wall Bracket -





- User's Manual -

- Screws -

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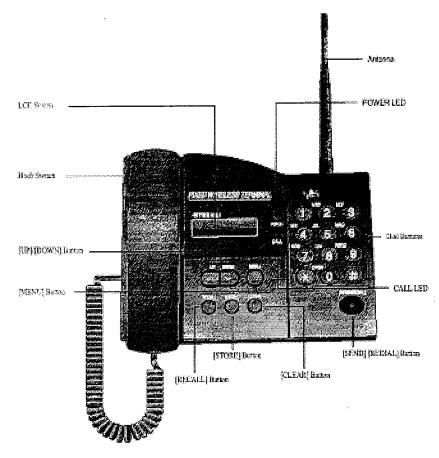
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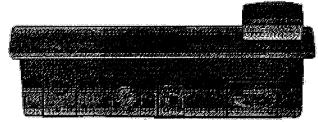


- Mounting Ptate -

- External Battery -

### 1.3 Name and Function of Each Part







#### RSSI LED

RSSI LED goes "ON", when the state of trans-ceiving is "GOOD".

RSSI LED goes "ON and OFF" at the interval of 1 second, when the state of trans-ceiving is "NOT GOOD".

RSSI LED goes "ON and OFF" at the interval of 15 seconds, when the state of trans-ceiving is "NO SERVICE".



#### POWER LED

Indicates whether the power is supplied by external SMPS or by internal battery. The LED goes" ON" when external power is supplied. When the terminal operates on internal backup battery, the LED goes" OFF".



#### **Hook Switch**

Turns call on and off . This switch starts and ends working with WLL terminal.



#### DC Jack

Connects power supply from the SMPS to the WLL terminal.



#### Serial Port

A port through which data services (Modern, PC Fax, Internet access) are available.



#### Power Switch

Turns the power supply to WLL terminal on and off.

#### **Buttons**



#### DIAL

Input telephone numbers or numeric characters (0-9, \*, #), and choose menu items.



#### UP/DOWN

Retrieve stored telephone numbers, adjust beep volume and ringer loudness when the phone is ringing, move across menu items, and adjust handset loudness during the call.



#### **FUNCTION**

Input menu.



#### STORE

Store the settings and menu.



#### REDIAL

Make a call to the last dialed telephone number.



#### RING

Select ring sound from 10 types of ring.



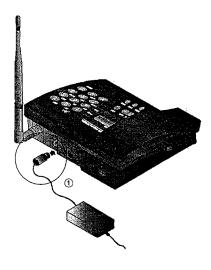
#### SEND

Make call attempt in the off-hook state.

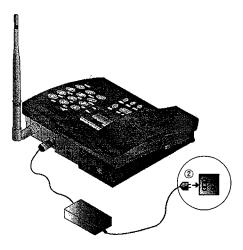
### 1.4 Installing WLL Terminal (INSTALLING ANTENNA)

#### **General Observations**

1 Connect DC jack as shown below.



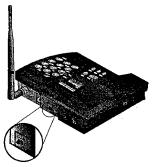
Connect the SMPS plug to the outlet.



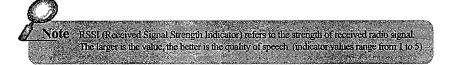




3 Turn on the power switch as shown on the picture. The WLL terminal turns on and a beep sound is heard.

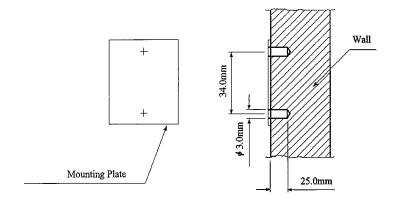


4 After initialization, the WLL terminal goes to the waiting mode.

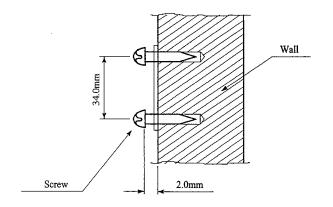


#### Wall Bracket Mounting

① For the concrete wall, place the mounting plate where the WLL terminal should be installed, and drill two according to +' marks.



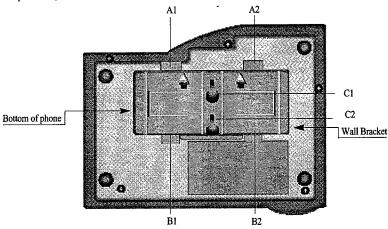
Screw up as shown in the figure below.



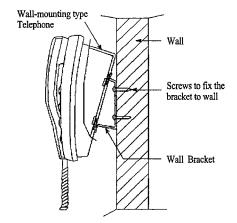
For the wooden wall, screw up the plate directly to the wall.

The distance between the screw head and the wall is to be 2.0mm as shown on the figure above.

3 Insert the parts A1, A2 of the wall bracket into the WLL terminal body, and gently push in the parts B1, B2.



② Insert screws into the C1, C2 notches, and pull the body downward. As this takes place, make sure about the distance between the screw head and the wall, lest the body hangs askew.



Note If you need better speech quality, you can install optional external panel antenna(For inquires please contact your local distributor.)

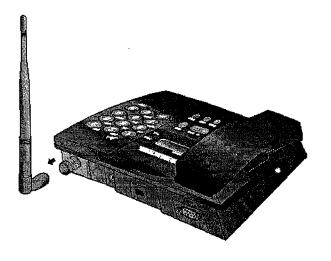


Note: The WLL terminal is fitted with a backup battery, which enables terminal operation in the absence external power supply.

If the external power supply through the SMPS fails, the WLL terminal can operate from the backup battery for about 70 hours in the waiting mode and for 2 hours in the call forwarding mode.

#### External Antenna

① Disconnect antenna from the phone

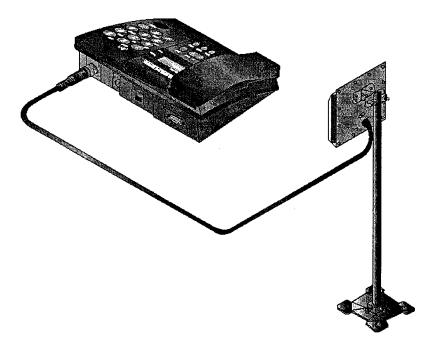


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2 Plug the external antenna cable into the same slot as shown below.



3 Connect the opposite end of the cable to the panel antenna as shown in the figure.



#### 1.5 LCD Display

The LCD display shows the terminal operating mode, RSSI (Received Signal Strength Indicator), the state of power.

### 1.5.1 Display for Power On

Indicate power LED ON, when the power is supplied by externel SMPS. (Indicate power LED OFF, when the power is supplied by internel battery. If the voltage of battery is low (below 4.75V), the warning tone will be heard at the interval of 15 seconds).

1.5.2 Display for Weak RSSI (Received Signal Strength Indicator)

RSSI LED goes "ON", when the state of trans-ceiving is 'GOOD".

RSSI LED goes "ON and OFF" at the interval of 1 second, when the state of trans-ceiving is "NOT GOOD".

RSSI LED goes "ON and OFF" at the interval of 15 seconds, when the state of trans-ceiving is "NO SERVICE".

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### 2. Using Basic Functions

### 2.1 Call Process & Call Process by Special Function

#### 2.1.1 Call press

- · Pick up the handset. You will hear the dial tone. (In the" No Service" state however, the warning tone is heard at the interval of 0.5 second.)
- · In the No Service state, you cannot make calls.
- · Pick up the handset and press [REDIAL] button. The call will be made to the last dialed
- · Dial the telephone number and press [SEND] button to make a call.
- · If you do not [SEND] button after dialing the number, the call will be made automatically 6 seconds later.
- · Speak on the telephone.
- · Place the handset on-hook to terminate the call.

#### 2.1.2 Call process by special function

· You can make a phone call by special function.(Special Dial, Emergency Dial, Hot Line Dial)

You can adjust the handset volume using [UP]/[DOWN] buttons during the call. If you are trying to make a call in "Outgoing Lock" state, error tone(beep tone) will be heard and you can't make a call.

### 2.2 To Receiving an Incoming Call

#### 2.2.1 In on-hook state

- · If the telephone starts ringing, Pick up the handset.
- · Speak on the telephone.
- · Place the handset on-hook to terminate the call.

#### 2.2.2 In off-hook state

- · If a call comes when you dial the number, the telephone starts ringing.
- · Press [SEND] button to accept the call.
- Speak on the telephone.
- · Place the handset on-hook to terminate the call.

- Note: 1) The ringer has operation priority. Hence, if there is an incoming call when you work with [REDIAL] or [FUNCTION] in the on-hook state, the current operation is interrupted by the
  - 2) If the ringer comes into action in the off-hook state, you can pass [SEND] button to speak on
  - 3) During a call, you can adjust the handset volume using [UPV[DOWN] button.

#### 2.3 To Last Number Redial (Redial Function)

- · You can easily make a call to the last dialed telephone number.
  - 1 Pick up the handset and press [REDIAL] button.
  - 2 When the call is connected, you can speak on the telephone.
  - 3 Place the handset on-hook to terminate the call.

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#### 3. Using Memory Functions

#### 3.1 To Store Telephone Numbers

You can store up to 99 telephone numbers using 2-digit addresses from 01 to 99.
 To make a call to the stored telephone number, you have simply dial its address.

How to store a phonenumber

[FUNCTION] Button → [3] → [Input Number] →

[STORE] → [01-99](Address Number) →

[STORE]

3.2 To Make a Phone Call to the Stored Telephone Number.

#### 3.2.1 Speed Dial

(Before you can use Speed Dialing, you must enable this option. To learn how this option is enabled, refer to 4.1.3.)

### 1 1-Digit Address

Using Speed Dialing you can quickly make a call to 9 telephone numbers stored under addresses 01 through 09:

- Pick up the handset, press a digit from 1 to 9, and then press [SEND].
- Pick up the handset, press and hold a digit from 1 to 9.
- · The telephone number will be dialed automatically.

#### 2 2-Digit Address

You can to easily make a call to the telephone numbers stored under addresses from 10 to 99:

 Pick up the handset, press 2 digits of the stored address (10~99), and then press [SEND].

or

- Pick up the handset, press the first digit of the stored address, and then press and hold the second digit.
  - For example, if you want to dial to the number stored under the address 16, press [1] and then press and hold [6].
- . The telephone number will be dialed automatically.

#### 3.2.2 Emergency Dialing

- You can quickly make a one-touch call to emergency numbers stored under addresses 01/02/03 (you have also to enable emergency dialing). Once the call is originated, it is kept connected until the called party goes off-hook. Refer to the Chapter 4.1.4 for more details.
- To make an emergency call in the off-hook state, you can press and hold the last digit of the address, or press two address digits one after other, and press [SEND].



- Note: 1) If both Emergency Dialing and Speed Dialing options are enabled, addresses from 01 to 03 are used for the emergency call mode.
  - If Emergency Dialing is disabled, addresses from 01 to 03 are used for the Spec Dialing mode.
  - 3) When Emergency Dialing is enabled, emergency calls to the addresses from 01 in 0, are available whether or not outgoing calls are locked.

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#### 3.2.3 Hot-Line Dial

Hot-line dialing lets you make a automatic calls to the phone number under the address 99 by simply picking up your handset.

(Address 99 is supposed to be used for most frequently called number)

Two hot-line wait modes are available. If you set the hot-line mode to Immediate", the call is dialed as soon as you go off hook. If the hot-line mode is set to "Timed", the call is connected after a specified timeout (from 04 to 08 sec).

The default hot-line state is Off", and the default timeout is preset to 6 sec.

Refer to the chapter 4.1.5 for how to set up hot-line.

#### 3.3 To Erase the Stored Telephone Number

3.3.1 To delete the one address to delete the one telephone number

How to delete the one telephone number

[FUNCTION] Button → [5](Security) → [Password] →

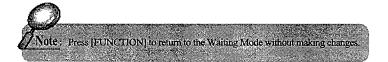
[3](Clear One dial) → [01~99](Address Number) →

[STORE].

3.3.2 To delete the all address to delete the all telephone numbers

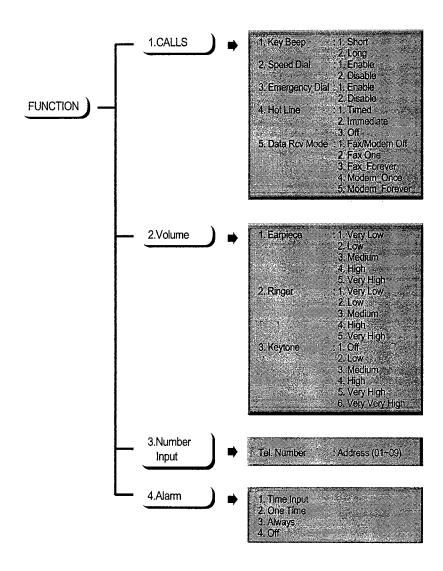
How to delete the all telephone numbers

[FUNCTION] Button → [5](Security) → [Password] → [4](Clear dials) → [STORE].



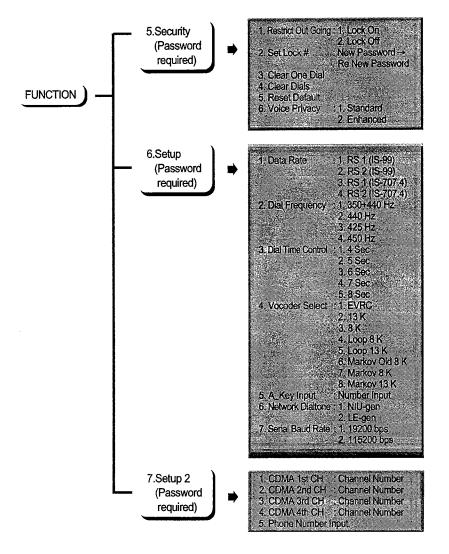
### 4. Using Menu Mode

• Flow-Chart of Menu Operation



### 4. Using Menu Mode

· Flow-Chart of Menu Operation

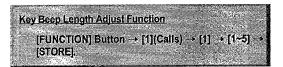


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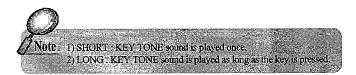
#### 4.1 Calls

4.1.1 Key Beep Length Adjust Function (Key Beep)

This function is allows you to change the duration of WLL terminal beep tone.



Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.1.2 Ring Type Function

You can select between 10 ring types to inform about incoming call:

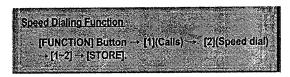
- ① When you press [RING] in the waiting mode, you can choose 10 ring types (Ring Type 1 ~ Ring type 10).
- ② If you press [RING], you can hear sample melody for 2 seconds and this sample melody will be selected as "RING TYPE".



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#### 4.1.3 Speed Dialing Function (Speed Dial)

This menu is used to turn the speed dialing on and off.

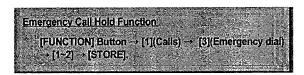


Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.1.4 Emergency Call Hold Function (Emergency)

You can store up to three numbers (addresses 01 to 03) to quickly make a call in case of emergency. The main feature of emergency calling is that the call is kept connected until the called party picks up the handset. In other words, until the call is answered. By default, Emergency Call Hold is disabled. To enable this function:



Press [FUNCTION] to return to the Waiting Mode without making changes.



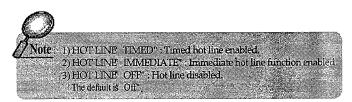
#### 4.1.5 Hot Line Function (Hot Line)

You can make a call automatically without entering the phone number. In other words, if you store a frequently used number at the address 99 and the hot line function is enabled (timed or immediate), you can automatically make a call to that number: For immediate call, you simply pick up the handset and the call will be connected. For timed call, you pick up the handset and wait for a few seconds until the call is connected.

```
Hot Line Function

[FUNCTION] Button → [1](Calls) → [4](Hot Line) → [1-3] → [STORE].
```

Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.1.6 Data Receive Mode

- This service enables you to access the Internet and PC communication and to receive/send fax messages by connecting your PC to the WLL terminal. The wireless data communication service may not be available from your service provider. Please check whether or not the service provider supports data communication services.
- · You will also need RS-232 cable.
- For more details about settings up the computer environment and other related issues, refer to the correspondent technical documentation.

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#### 4.1.6.1 Data Receiving Mode Setup

### Method 1 Setup using other method

Data Receiving Mode Setup

[FUNCTION] Button → [1](Calls) → [5](Data Receive Mode)

→ [1~5] → [STORE].

Press [FUNCTION] to return to the Waiting Mode without making changes.

Note
1) FAX/MODEM Mode OFF". Data service is disabled.
2) FAX Mode ONE TIME": Fax mode is enabled for 10 minutes following which it is disabled again.
3) FAX Mode AL WAYS" Fax mode is kept enabled as long as the power is on.
4) MODEM Mode ONE TIME". Modem mode is enabled for 10 minutes following which it is disabled again.
5) MODEM Mode AL WAYS"; Modem mode is kept enabled as long as the power is on.
The default is FAX/MODEM Mode OFF" at power up.

### Method 2 Setupusing AT command

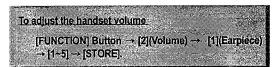
You can setup receiving mode you want using AT commands from your computer connected to the WLL terminal.

- Enter [AT+HDVAD=0] and press Enter.
   This command disables data receiving mode.
- Enter [AT+HDVAD=1] and then press Enter.
   This command enables PC fax receiving mode for one time.
- Enter [AT+HDVAD=2] and then press Enter.
   This command enables PC fax receiving mode for always.
- Enter [AT+HDVAD=3] and press Enter key.
   This command enables modem mode for one time.
- Enter [AT+HDVAD=4] and press Enter.
  This command enables modem mode for always.
- Default is [AT+HDVAD=0].

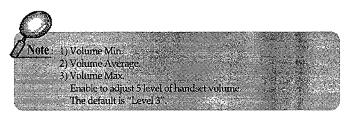
#### 4.2 To Adjust Volume

#### 4.2.1 To adjust the handset volume

#### Method 1



- Use [UP]/[DOWN] buttons to adjust the volume, and press [STORE] to save the changes you have made.
- Press [FUNCTION] to return to the Waiting Mode without making changes.



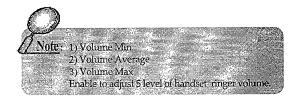
Method 2 • Use [UP]/[DOWN] button to adjust the volume during the call.

### 4.2.2 To adjust the ringer volume

Method 1

To adjust the ringer volume  $[\text{FUNCTION}] \text{ Button} \to [2](\text{Volume}) \to [2](\text{Ringer}) \to [4-5] \to [\text{STORE}].$ 

- Use [UP]/[DOWN] buttons to adjust the volume, and press [STORE] to save the changes you have made.
- Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.2.3 To adjust the key beep volume

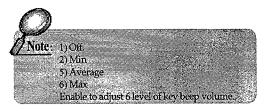
Method 1

To adjust the key beep volume

[FUNCTION] Button → [2](Volume) → [3](Keytone)

→ [1~6] → [STORE].

- Use [UP]/[DOWN] buttons to adjust the volume, and press [STORE] to save the changes you have made.
- Press [FUNCTION] to return to the Waiting Mode without making changes.



Method 

Adjust the volume using [UP]/[DOWN] Button in on-hook the Waiting Mode.

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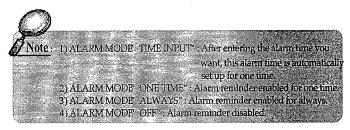
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4.3 Alarm Reminder Function (ALARM REMINDER)

Alarm reminder enables the alarm ring when the specified time is reached. The ring discontinues when you pick up the handset. The default is disabled.

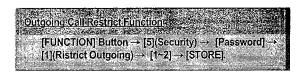


Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.4 Security

4.4.1 Outgoing Call Restrict Function (RESTRICT. OUTGOING)



Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.4.2 Lock NO. SET Function (SET LOCK#)



Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.4.3 To Delete One Address in Memory



Press [FUNCTION] to return to the Waiting Mode without making changes.

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4.4.4 Memory Clear Function (CLEAR MEMORY)



Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.4.5 Reset Default Function

You can easily restore all options of your WLL terminal to their default values. You are not recommended however, to use this command too often.

Reset menus	Default values
Speed dial	Enable
Emergency call hold	Disable
Hot line	off
Alarm	off
Rest. Outgoing	Allow
Earpiece volume	Level 3



Press [FUNCTION] to return to the Waiting Mode without making changes.

4.4.6 Voice Privacy
4.4.6.1 During Menu Setup



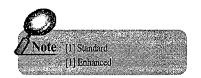
Press [FUNCTION] to return to the Waiting Mode without making changes.



4.4.6.2 In on-hook state, menu set up



Press [FUNCTION] to return to the Waiting Mode without making changes.



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#### 4.5 Setup 1

#### 4.5.1 Data Rate

You can change the default data transmission speed. Available data speed options are: Rate set 1 based on IS-99, Rate set 2 based on IS-99, Rate set 1 based in IS-707.4, and Rate set 2 based on IS-707.4.



Press [FUNCTION] to return to the Waiting Mode without making changes.

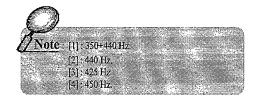


#### 4.5.2 Dial Tone Frequency

You can change the dial tone frequency. Four types are available: 350+440 Hz dual, 300+400Hz dual, 400 Hz single, 425 Hz single and 450 Hz single.

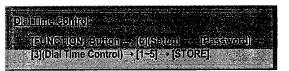
```
Dial Tone Frequency [FUNCTION] Button \rightarrow [6](Setup) \rightarrow [Password] \rightarrow [2](Dial Tone Frequency) \rightarrow [1~4] \rightarrow [STORE].
```

Press [FUNCTION] to return to the Waiting Mode without making changes.

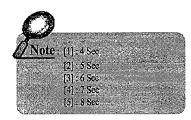


#### 4.5.3 Dial Time Control

You can adjust the automatic calling time. If you set up dial time to 4 sec, the terminal will make a call 4 sec after you press the last digit of called number. (You can set up dial time from 4 to 8 sec. The default is 6 sec.)

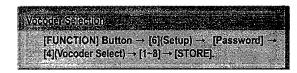


Press [FUNCTION] to return to the Waiting Mode without making changes.

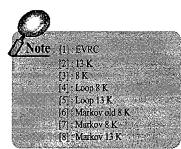


#### 4.5.4 Vocoder Selection

You can use 8 types of Vocoder when speaking on the phone: 8K QCELP, 13K QCELP, 8K EVRC (8K Loop Back, 13K Loop Back, Markov old 8k, Markov 8k, Markov 13k).



Press [FUNCTION] to return to the Waiting Mode without making changes.



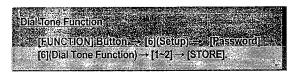
#### 4.5.5 A\_key Input

Enables you to input authentication key.



#### 4.5.6 Dial Tone Function

Dial Tone feature is available in HWP-130/230 depending upon system configuration. For the Network Dial Tone support, HWP-130/230 must provide "LE-Generated dial tone". Otherwise, HWP-130/230 supports "NIU-Generated dial tone".



Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.5.7 Serial Interface (Serial Data Rate)

Your WLL terminal supports RS-232 serial interface for data communication. Two baud rates are available: 19200bps for modem, PC Fax and QNC services; and 115200bps for High-Speed Packet service.



Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.6 Setup 2

#### 4.6.1 CDMA Chanel Setting



Press [FUNCTION] to return to the Waiting Mode without making changes.

#### 4.6.2 input telephone number

Input telephone number.

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### <Appendix>

### 1. Summary Table

0 1511	SAVE	FNC_K → 3 → Number → STO_K → Address → STO_K	
Save / Delete Phone Number	Delete One Address	FNC_K → 5 → Password → 3 → Address → STO_K	
Thone Namber	Delete All Address	FNC_K → 5 → Password → 4 → STO_K	
	On	FNC_K → 1 → 2 → 1 → STO_K	
Speed Dial	Off	$FNC_K \rightarrow 1 \rightarrow 2 \rightarrow 2 \rightarrow STO_K$	
Emergency Call	On	$FNC\_K \rightarrow 1 \rightarrow 3 \rightarrow 1 \rightarrow STO\_K$	
Hold	Off	$FNC\_K \rightarrow 1 \rightarrow 3 \rightarrow 2 \rightarrow STO\_K$	
	Time Hot Line On	FNC_K → 1 → 4 → 1 → STO_K	
Hot Line	Immediate Hot Line	FNC_K → 1 → 4 → 2 → STO_K	
	Off	$FNC_K \rightarrow 1 \rightarrow 4 \rightarrow 3 \rightarrow STO_K$	
	Time Input (One Time)	FNC_K→4→1→ TIME→STO_K	
Alama Bandada	One Time mode	$FNC_K \rightarrow 4 \rightarrow 2 \rightarrow STO_K$	
Alarm Reminder	Always Mode	FNC_K → 4 → 3 → STO_K	
	Alarm Off	FNC_K → 4 → 4 → STO_K	
Lock	On	$FNC_K \rightarrow 5 \rightarrow Password \rightarrow 1 \rightarrow 1 \rightarrow STO_K$	
	Off	$FNC_K \rightarrow 5 \rightarrow Password \rightarrow 1 \rightarrow 2 \rightarrow STO_K$	
	Change Password  FNC_K→5→Password→2→New Password  STO_K→Re New Password→STO_K		
Ear-Piece Volume Adjusting (5steps)	FNC_K → 2 → 1 → 1/2/3/4/5 → STO_K (1:Very Low5:Very High) Press Up or Down Key (Off Hook)		
Reset	$FNC_K \rightarrow 5 \rightarrow Password \rightarrow 5 \rightarrow STO_K$		
Data Service	Using The Normal Phone	$FNC_K \rightarrow 1 \rightarrow 5 \rightarrow 1 \rightarrow STO_K$	
Receive Mode Release	Using The Emulator	[AT+HDVAD=0] → Enter	
Fax Receive Mode	Using The Normal Phone	$FNC_K \rightarrow 1 \rightarrow 5 \rightarrow 2 \rightarrow STO_K$	
Setting (One Time)	Using The Emulator	[AT+HDVAD=1] → Enter	
Fax Receive Mode	Using The Normal Phone	$FNC_K \rightarrow 1 \rightarrow 5 \rightarrow 3 \rightarrow STO_K$	
Setting (Until Power Off)	Using The Emulator	[AT+HDVAD=2] → Enter	
Modem Receive	Using The Normal Phone	FNC_K → 1 → 5 → 4 → STO_K	
Mode (One Time)	Using The Emulator	[AT+HDVAD=3] → Enter	
Modem Receive Mode	Hairar Tha Name at Dhana	FNO 1/ . 4 . 5 . 6 . 070 1/	
Modelli Mecelve Mode	Using The Normal Phone	$FNC_K \rightarrow 1 \rightarrow 5 \rightarrow 5 \rightarrow 510_K$	
Modern Pacaiya Mada	Hair a The Name of Dham	FNC_K→1→5→5→STO_K  [AT+HDVAD=4] → Enter	

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### 2. Troubleshooting

Problem	What To Do
There is no indication on the POWER LED.	Make sure the terminal is turned on.
	If the switch is on, turn off the terminal and then turn
	it on again.
RSSI LED goes on and off at the interval of	■ The WLL terminal must be placed in the location
15 seconds.	where service coverage is available. If necessary,
	move the terminal to the serviced location.
Your terminal beeps or you can hear nothing in the	Your handset is not properly placed. Place the
handset.	handset normally.
There is no ring when a call comes.	The ringer is switched off. Press [UP] button
	several times to adjust the ringer volume

In case that simple remedy steps does not help, contact the local agency from where you have purchased the product, a service center or a qualified technician to solve the trouble.

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## 3. FWT Technical Specifications

	Classification	HWP-130	HWP-230
	Common air interface standard	IS-95B(IS-95A, TSB-74)	IS-95B(IS-95A, J-STD-008)
	Frequency	TX: 824 ~ 849MHz	TX: 1850 ~ 1910MHz
		RX: 869 ~ 894MHz	RX: 1930 ~ 1990MHz
	Frequency accuracy	Fo± 300Hz	Fo± 150Hz
Air interface	TX output power	200mW	
Air interrace	RX sensitivity	- 104dBm	
	Vocoder	8K/13K QCELP	
		8K EVRC	
	Channel bandwidth	CDMA 1.25Mhz	
	MOD/DEMOD	O QPSK/QPSK	
	Туре	Ni-Cd	
	Capacity	4.8V @ 1.7A	
B	Conversation time	2 ~ 3 hours	
Battery backup	Standby time	50 hours	
	Serial port	Data service purpose (Internet, Modem , PC fax)	
		Maintenance purpose	
Dhusiaal	Dimension (D <sub>X</sub> W <sub>X</sub> H)	181×232×66(mm)	
Physical	Weight (including backup battery)	986g	
Environmental	Operating temperature	-10°C ~ +50°C	
Power supply	Input power	110 ~ 240V(± 20V), 50/60Hz	
Power suppry	Output power	DC 12V @ 1.3A	
	Accessories	Internal antenna: Dipole antenna	
Etc	Power supply (SMPS)		S)
		Antenna	