## -MYUNDAI

#### 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.

- 2) If Emergency Dialing is disabled, addresses from 01 to 03 are used for the Speed Dialing mode.
- 3) When Emergency Dialing is enabled, emergency calls to the addresses from 01 to 03 are available whether or not outgoing calls are locked.

·WYUNDAI

## ·MYUNDAI

#### 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.

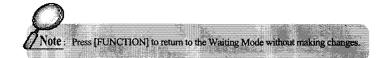
[FUNCTION] Button → [5](Security) → [Password] →
[3](Clear One dial) → [01~99](Address Number) →
[STORE].

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

How to delete the all telephone numbers

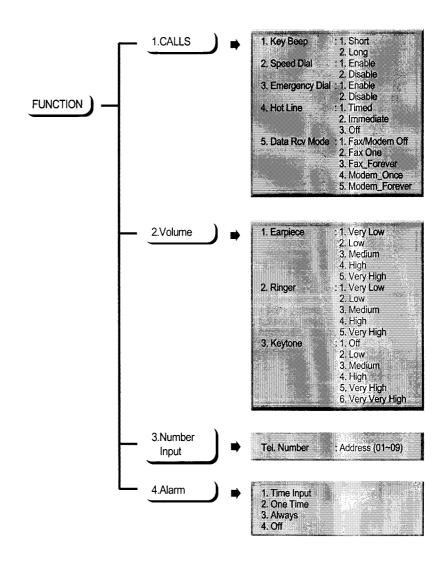
[FUNCTION] Button → [5](Security) → [Password] →

[4](Clear dials) → [STORE].



### 4. Using Menu Mode

· Flow-Chart of Menu Operation

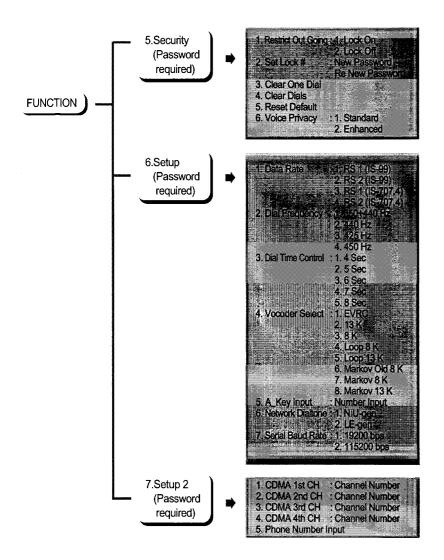


-WYUNDAI

### -WYUNDAI

### 4. Using Menu Mode

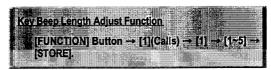
· Flow-Chart of Menu Operation



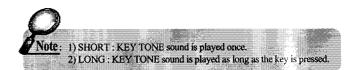
#### 4.1 Calls

4.1.1 Key Beep Length Adjust Function (Key Beep)

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



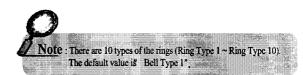
Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 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".



## ·₩YUNDAI

4.1.3 Speed Dialing Function (Speed Dial)

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

Speed Dialing Function.

[FUNCTION] Button → [1](Calls) → [2](Speed dial)

→ [1-2] → [STORE].

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

Note: 1) SPEED DIAL ENABLE": Speed dial is enabled.
2) SPEED DIAL" DISABLE": Speed dial is disabled.
The default is Enable".

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:

Emergency Call Hold Function

[FUNCTION] Button → [1](Calls) → [3](Emergency dial)

→ [1~2] → [STORE].

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

Note: 1) EMERGENCY DIAL" ENABLE": Emergency call hold is enabled.
2) EMERGENCY DIAL" DISABLE": Emergency call hold is disabled.
The default is "Disable".

#### 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.

Note: 1) HOT LINE TIMED": Timed hot line enabled.
2) HOT LINE IMMEDIATE": Immediate hot line function enabled.
3) HOT LINE OFF": Hot line disabled.
The default is Off".

#### 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.

## -MYUNDAI

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 ALWAYS": 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 ALWAYS": Modem mode is kept enabled as long as the power is on.

The default is FAX/MODEM Mode OFF" at power up.

### Method (2) Setup using 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

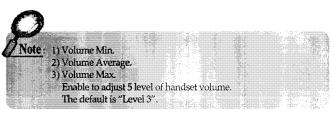
4.2.1 To adjust the handset volume

Method 1

To acjust the handset volume.

[FUNCTION] Button → [2](Volume) → [1](Earpiece)
→ [1-5] → [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 ② • Use [UP]/[DOWN] button to adjust the volume during the call.

### ·WYUNDAI

#### 4.2.2 To adjust the ringer volume

Method 1

To adjust the ringer volume [FUNCTION] Button → [2](Volume) → [2](Ringer) → [1~5] → [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.

Note: 1) Volume Min.
2) Volume Average
3) Volume Max
Enable to adjust 5 level of handset ringer volume.

Method 

• Adjust the volume using [UP]/[DOWN] Button while the ringer works.

#### 4.2.3 To adjust the key beep volume

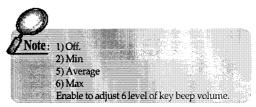
Method 1

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.

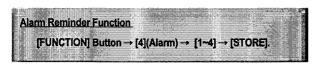


Method 2 • Adjust the volume using [UP]/[DOWN] Button in on-hook the Waiting Mode.

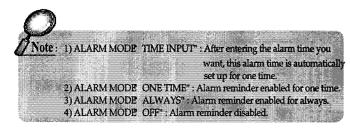
## ·MYUNDA!

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.

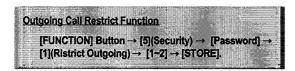


Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 4.4 Security

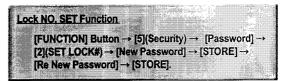
4.4.1 Outgoing Call Restrict Function (RESTRICT. OUTGOING)



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

```
To Delete One Address in Memory

[FUNCTION] Button → [5](Security) → [Password] →
[3](Clear On Dial) → [00-99](Address Number) →
[STORE].
```

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

·MYUNDA!

4.4.4 Memory Clear Function (CLEAR MEMORY)

Memory Clear Function [FUNCTION] Button → [5](Security) → [Password] → [4](Clear Dials) → [STORE].

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

Note: [STORE]: Clears the list of dials.

#### 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	

Reset Default Function

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

[5](Reset Default) → [STORE],

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

4.4.6 Voice Privacy 4.4.6.1 During Menu Setup

During Menu Setup.

[FUNCTION] Button → [5](Security) → [Password] →
[6](Voice Privacy) → [1-2] → [STORE].

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

Note: [1] Standard
[1] Enhanced

4.4.6.2 in on-hook state, menu set up

In on-hook state, menu set up.

[FUNCTION] Button → [1] → [1~2] → [STORE].

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

Note: [1] Standard
[1] Enhanced

-MYUNDAI

## -MYUNDAI

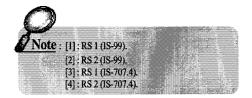
4.5 Setup 1

#### 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.

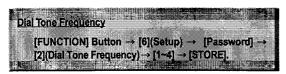


Press [FUNCTION] to return to the Waiting Mode without making changes.

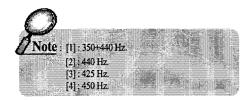


#### 4.5.2 Dial Tone Frequency

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.

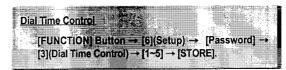


Press [FUNCTION] to return to the Waiting Mode without making changes.

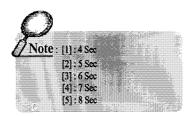


#### 4.5.3 Dial Time Control

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.)

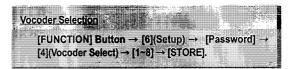


Press [FUNCTION] to return to the Waiting Mode without making changes.

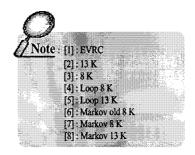


#### 4.5.4 Vocoder Selection

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).



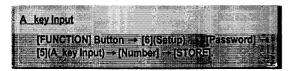
Press [FUNCTION] to return to the Waiting Mode without making changes.



## ·WYUNDAI

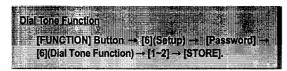
#### 4.5.5 A\_key Input

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.

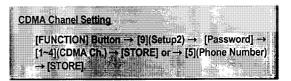


Press [FUNCTION] to return to the Waiting Mode without making changes.



#### 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.

# -MYUNDAI

## ·MYUNDAI

### <Appendix>

### 1. Summary Table

Save / Delete	SAVE	FNC_K → 3 → Number → STO_K → Address → STO_K		
Phone Number	Delete One Address	$FNC\_K \rightarrow 5 \rightarrow Password \rightarrow 3 \rightarrow Address \rightarrow STO\_I$		
	Delete All Address	FNC_K → 5 → Password → 4 → STO_K		
0	On	FNC_K → 1 → 2 → 1 → STO_K		
Speed Dial	Off	$FNC_K \rightarrow 1 \rightarrow 2 \rightarrow 2 \rightarrow STO_K$		
Emergency Cali	On	FNC_K → 1 → 3 → 1 → STO_K		
Hold	Off	$FNC_{-}K \rightarrow 1 \rightarrow 3 \rightarrow 2 \rightarrow STO_{-}K$		
Hot Line	Time Hot Line On	FNC_K → 1 → 4 → 1 → STO_K		
	Immediate Hot Line	FNC_K → 1 → 4 → 2 → STO_K		
	Off	FNC_K→1→4→3→STO_K		
	Time Input (One Time)	FNC_K → 4 → 1 → TIME → STO_K		
	One Time mode	FNC_K → 4 → 2 → 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 → 1 → 5 → 1 → STO_K		
Receive Mode Release	Using The Emulator	[AT+HDVAD=0] → Enter		
Fax Receive Mode	Using The Normal Phone	FNC_K→1→5→2→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	$FNC_K \rightarrow 1 \rightarrow 5 \rightarrow 4 \rightarrow STO_K$		
Mode (One Time)	Using The Emulator	[AT+HDVAD=3] → Enter		
odem Receive Mode Using The Normal Phone		$FNC_{K} \rightarrow 1 \rightarrow 5 \rightarrow 5 \rightarrow STO_{K}$		
Modern Receive Mode	Using The Normal Phone	$FNC_K \rightarrow 1 \rightarrow 5 \rightarrow 5 \rightarrow STO_K$		

### 2. Troubleshooting

Problem	What To Do     Make sure the terminal is turned on.     If the switch is on, turn off the terminal and then turn it on again.	
■ There is no indication on the POWER LED.		
RSSI LED goes on and off at the interval of 15 seconds.	■ The WLL terminal must be placed in the location where service coverage is available. If necessary, move the terminal to the serviced location.	
Your terminal beeps or you can hear nothing in the handset.	Your handset is not properly placed. Place the 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.

# -MYUNDAI

# -MYUNDAI

### 3. FWT Technical Specifications

	Classification	HWP-130	HWP-230		
Air interface	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		
	TX output power	200mW			
	RX sensitivity	- 104dBm			
	Vocoder	8K/13K	8K/13K QCELP		
		8K EVRC			
	Channel bandwidth	CDMA 1.25Mhz			
	MOD/DEMOD	O QPSK/QPSK			
Battery backup	Туре	Ni-Cd			
	Capacity	4.8V @ 1.7A			
	Conversation time	2 ~ 3 hours			
	Standby time	50 hours			
	Serial port	Data service purpose (Internet, Modem , PC fax)			
		Maintenance purpose			
Dhusiasi	Dimension (D <sub>X</sub> W <sub>X</sub> H)	181×23	181 × 232 × 66(mm)		
Physical	Weight (including backup battery)	986g			
Environmental	Operating temperature	-10℃ ~ +50℃			
Dower aupoh	Input power	110 ~ 240V(± 20V), 50/60Hz			
Power supply	Output power	DC 12V @ 1.3A			
	Accessories	Internal antenna: Dipole antenna			
Etc		Power supply (SMPS)			
		· Antenna	· Antenna		

1

į