The Hear Now Inc

Feature Operation Specification

For Pet

Version: preliminary
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Writtenn by:

Approved by:

1.0   SYNOPSYS

This document is for software design and test

2.0   FEATURE LIST

- **UHF FM Transmission**
- **0.5W Output Power**
- **Up to 3km range**
- **No license required**
- **5 Buttons Operation**
- **14 channels and 38 CTCSS code function**
- **3 selectable Call Tone**
- **VOX feature - 4 levels**
- **Electronics Volume – 8 levels**
- **Channel BUSY (Rx) Indication (Luminance < Light Sensing threshold) –Red LED On**
- **Automatic Squelch function**
- **Low battery indication**
- **Backlight control from light sensing feature**
- **Button lock icon Flashing Display function**
- **Key tone function**
- **LCD backlight function – Green for normal operation**
- **External AC-DC adaptor charger function**
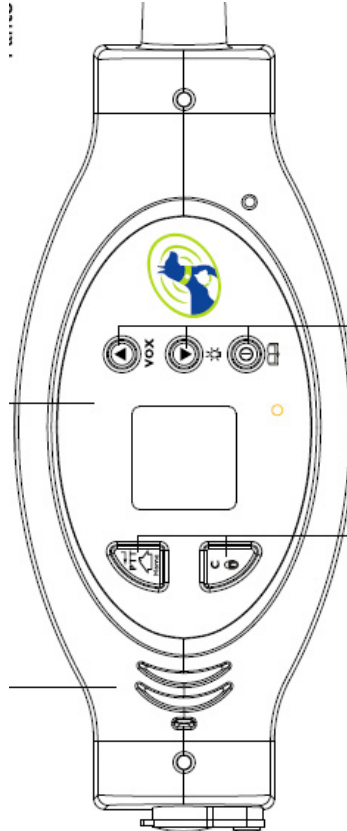- **Using rechargeable Li-ion battery**

3.0 KEY and LCD

3.1 LCD

Batte ... **CTC**

Loc
VO
CH /
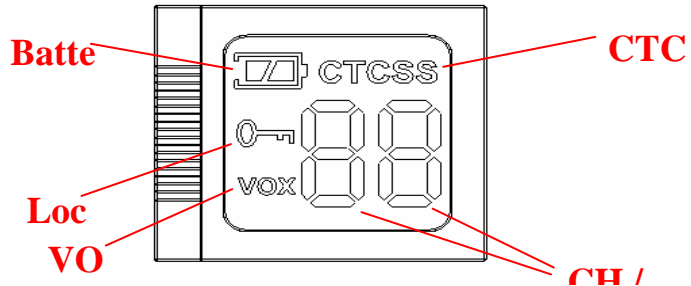
3.2 KEY DEFINITION

- 〝CALL/LOCK〞， CALL and LOCK key
- 〝PTT/CONFIRM〞， PTT Key
- 〝UP〞， Channel up or function scroll up in menu
- 〝DOWN〞， Channel down or function scroll down in menu
- "POWER/MENU" , power on/off and menu key

4.0 Operation

4.1 Power on

KEY	STATUS	LED	SPEAKER	LCD
POWER key pressed and hold 2S		Lit 5S	Power on TONE	`All screen light`

- First time power on, the default setting as below table：

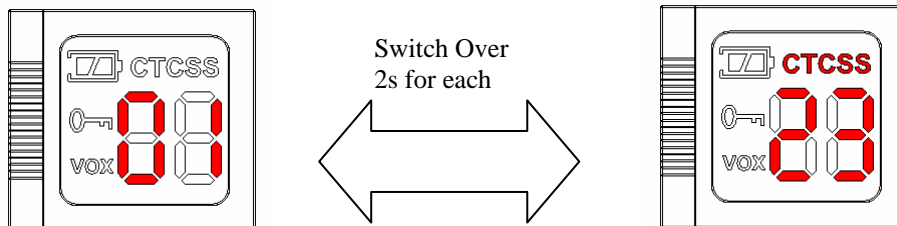| Item	Default
Channel	`1`
CTC code	`0`
Volume	`5`
VOX	`5`
Lock	`Unlock`

NOTE：
- If no event happened last 15 seconds, unit will be into standby mode.
- Normally power on, the last setting will be loaded automatically.

4.2 power off

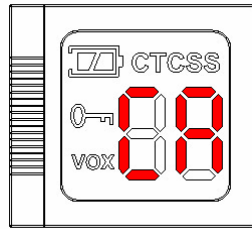| Key	Status	Backlight	speaker	LCD
POWER	Press and hold 2 S			
		off	Tone sounds	off

Display by STANDBY mode：

Switch Over 2s for each

Call Signal Tx

In bright circumstance, LED is not lit on receive.
In dark circumstance, LED is lit on receive.

4.3 adjust volume by standby mode

4.3.1 Volume up

key	status	Backlight	speaker	LCD
"UP" key pressed	Volume level increase one level	Lit 5S	Key tone	Display vol number
"UP" key Press and hold	Volume level increase one level by 0.25S	Lit 5S	NO TONE except volume level to max	Display vol number

4.3.2 Volume down

key	status	Backlight	speaker	LCD
"DOWN" key pressed	Volume level decrease one level	Lit 5S	Key tone	Display vol number
"down" key Press and hold	Volume level decrease one level by 0.25S	Lit 5S	No tone except volume level to min	Display vol number

4.4 FUNCTION SETTING

Press "menu" key enter function setting when standby or receive mode

4.4.1 Channel setting

key	Status	backlight	speaker	LCD
"UP" or "DOWN" key pressed	Channel number increase or decrease	Lit 5S	Key tone sounds	CH number displayed
"up" or "down" key Pressed and hold	CH Num increased by 0.5 S roundly	Lit 5S		CH number displayed

4.4.2 CTC code setting

Key	status	Backlight	speaker	LCD
"MENU" Pressed	Into CTC setting	Lit 5S	Key tone	CTC digit flash
"UP" or "DOWN" pressed	CTC digit increment or decrement one digit	Lit 5S	Key tone	CTC digit flash
"UP" or "DOWN" pressed and hold	CTC digit increment or decrement one digit by 0.5S	Lit 5S	Key tone	CTC digit flash and change continuously

4.4.3 CALL TONE SETTING

KEY	STATUS	BACKLIGHT	SPEAKER	LCD
"MENU" pressed	Entry CALL TONE setting	Lit 5S	current CALL TONE	display "C" and CALL TONE number
"UP" or "DOWN" pressed	Increment or decrement CALL TONE	Lit5S	Selected CALL TONE	display "C" and CALL TONE number

4.4.4 CHANNEL SCAN

KEY	STATUS	LED	SPEAKER	LCD
"MENU" Key pressed	Enter Channel scan	Lit 5S	KEY TONE	Display Channel number and "SC" alternative
"UP" or "DOWN" key pressed	Channel number increase or decrease scanning	Lit 5S	KEY TONE	Scanning channel number

4.4.5 CTCSS SCAN

KEY	STATUS	LED	SPEAKER	LCD
"PTT" Key pressed	Enter CTCSS scan	Lit 5S	KEY TONE	CTCSS Flash and display CTC digit and "SC" alternative
"UP" or "DOWN" Key pressed	CTC digit increase or decrease while Scanning	Lit 5S	KEY TONE	Scanning CTC digit

Note：

When scanned signal，display scanned CTC digit 5S, then, continue scanning.
When CALL key pressed, quit function setting. Enter call function

4.4.6 VOX LEVEL SETTING

KEY	STATUS	LED	SPEAKER	LCD
In standby mode, press and hold "UP" key 2S	Enter VOX setting mode	Lit 5S	KEY TONE	"_Vox_" Flash and display current threshold level
"UP" or "DOWN" KEY pressed	VOX level increase or decrease	Lit 5S	KEY TONE When VOX level reach MAX or MIN level, sounds warning tone	"_Vox_" Flash and display current threshold level
"UP" or "DOWN" Key pressed and hold	VOX level increase or decrease one level by 0.5S	Lit 5S	NO KEY TONE When VOX level reach MAX or MIN level, sounds warning tone	"_Vox_" Lit and display current level

Note：

When CALL key pressed, quit function setting and enter call function.
When PTT/MENU key pressed, quit function setting and keep current setting.

Note：

If no event happened last 10 seconds, unit will be into standby mode.
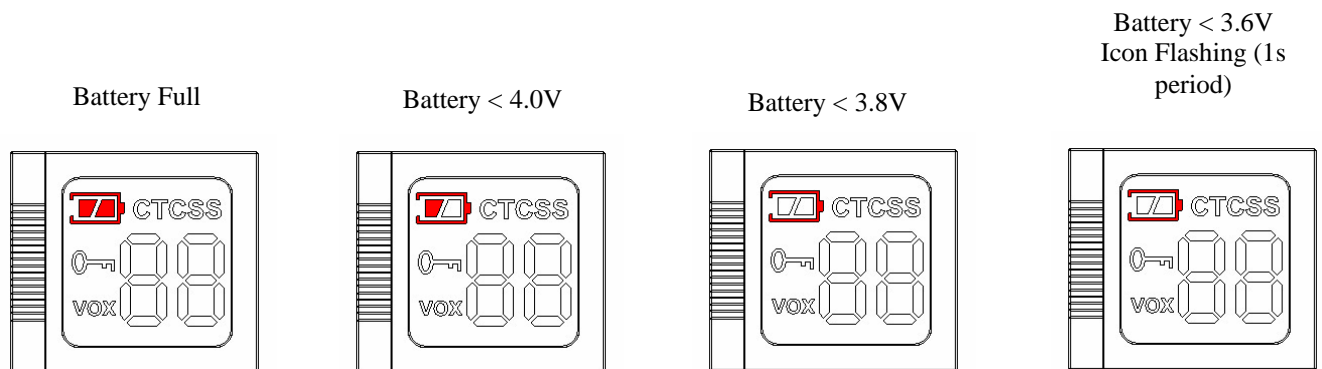
In function setting mode, VOX in void

5.0 KEY LOCK and UNLOCK

KEY	STATUS	LED	SPEAKER	LCD
LOCK pressed and hold exceed 2S	Lock or Unlock	Lit 5S	Two Lock Tone	Flash or Disappear

In locked state, only PTT and CALL/LOCK key available, other keys in void.

6.0 LOW BATTERY INDICATION

Battery Full

Battery < 4.0V

Battery < 3.8V

Battery < 3.6V Icon Flashing (1s period)

Battery < 3.5V: Unit off

7.0 CHARGE INDICATION

0.5s

0.5s

1s
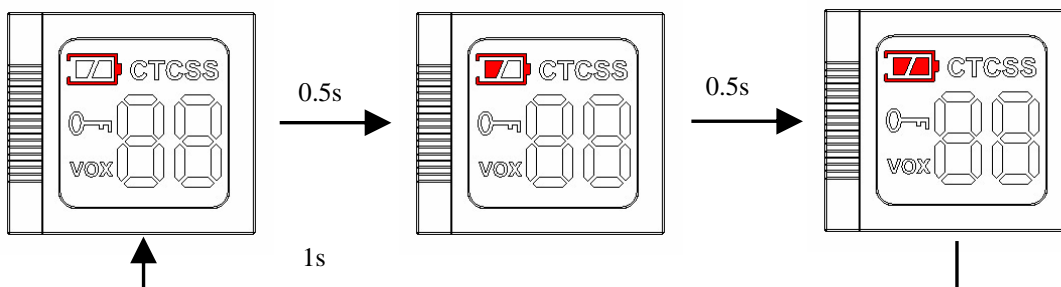
8.0 CHANNAL TABLE

Channel No	Freq. (MHz)	Channel No	Freq. (MHz)
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125