

The Hear Now Inc

User Manual

Model: THN1C

Version: preliminary
Issue Date: 28 Jan 2007

Written by:

Approved by:

The Hear Now Inc

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1.0 SYNOPSYS

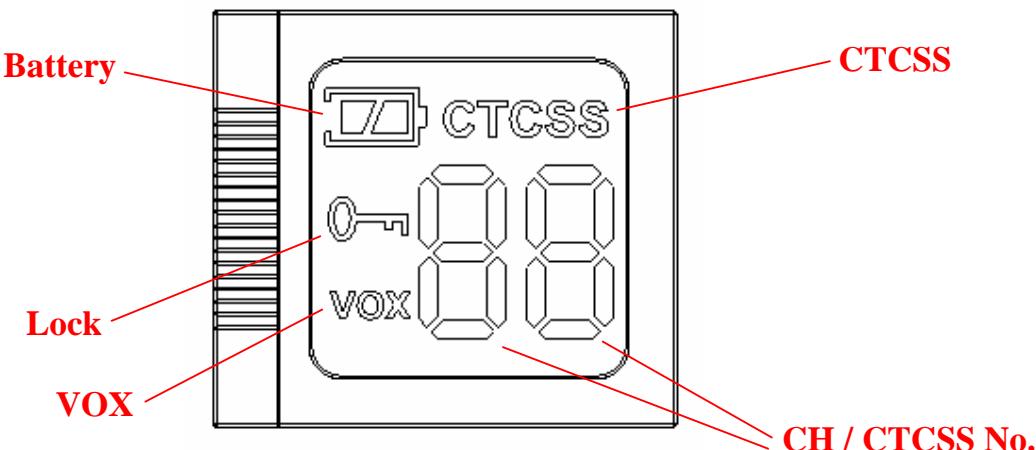
This document is for software design and test

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**

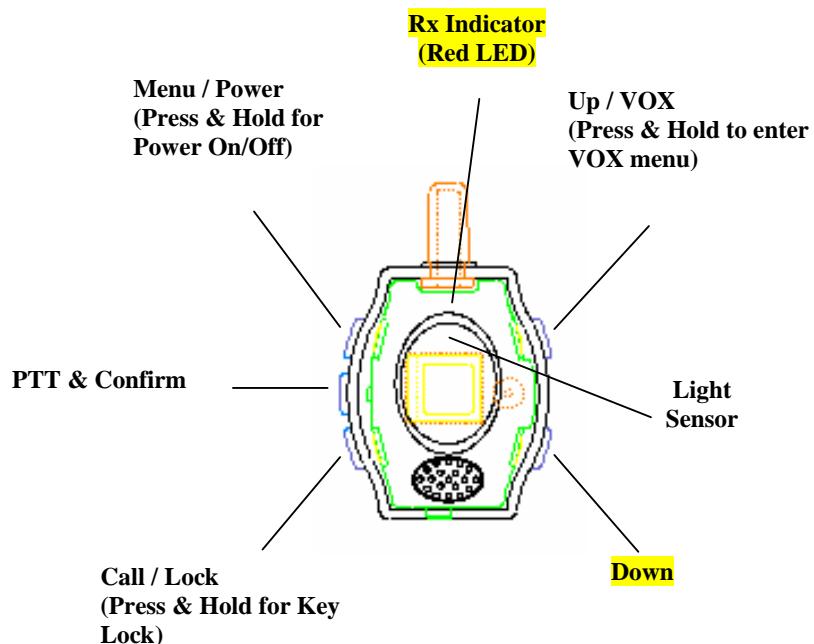
3.0 KEY and LCD

3.1 LCD



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



The Hear Now Inc

Model: THN1C

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

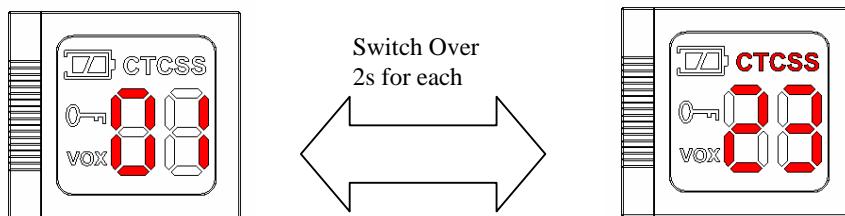
NOTE:

- 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:

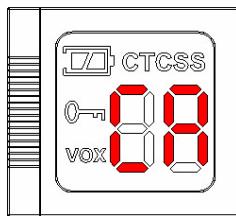


Call Signal Tx

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The Hear Now Inc

Model: THN1C



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

The Hear Now Inc

Model: THN1C

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

The Hear Now Inc

Model: THN1C

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

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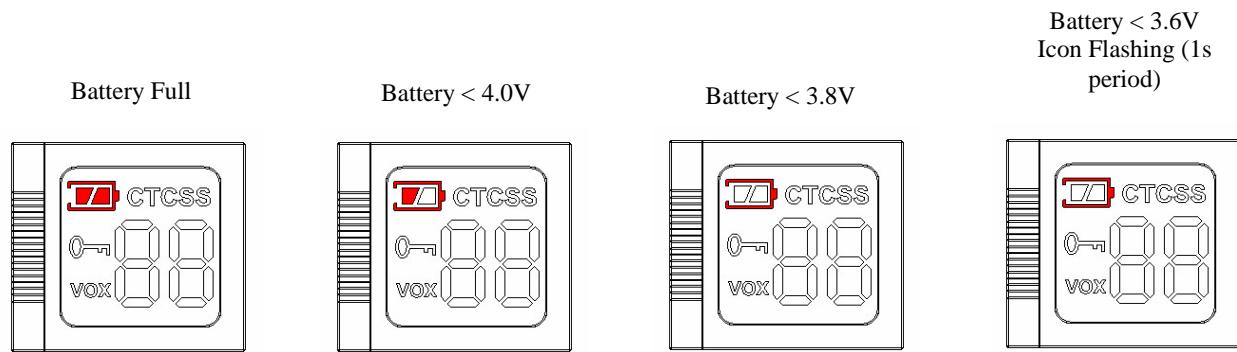
Model: THN1C

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

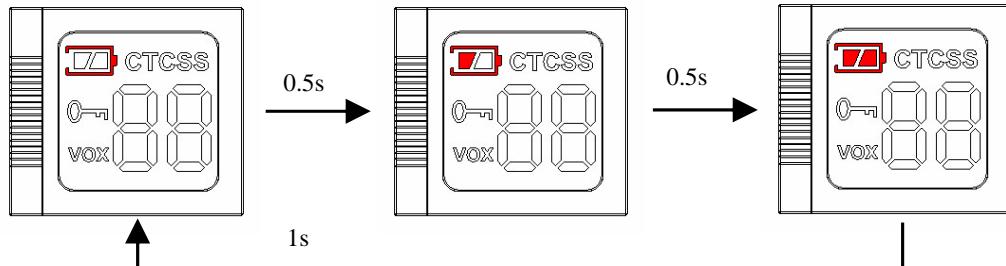
In locked state, only PTT and CALL/LOCK key available, other keys in void.

6.0 LOW BATTERY INDICATION



Battery < 3.5V: Unit off

7.0 CHARGE INDICATION



The Hear Now Inc

Model: THN1C

Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment. Any change to the equipment will void FCC grant.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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.

The equipment compliance with FCC radiation exposure limit set forth for uncontrolled environment