SANCHAR
WIRELESS COMMUNICATIONS LTD.

STC-804

License Free
Walkie - Talkie

ETA-SD-20210705359

INSTRUCTION MANUAL

TO CUSTOMERS

Thank you very much for using our transceiver.
This transceiver offers latest design, enhanced features
solid performances and easy accessibility
It is designed to meet different customers' requirements.
We believe that you will be pleased with its high quality
and stable functions

CONTENTS

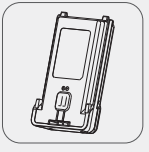
Unpacking and checking equipment

Welcome to use our transceiver. Please check if any damage to the packing box before use. Carefully unpack the radio. We recommend you that identify the items listed in the following tEXITle. If any items are missing or have been damaged during shipment, please contact local dealer immediately.

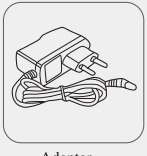
Supplied accessories:

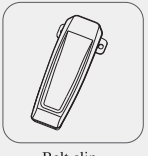

Radio


Antenna


Li–ion Battery pack


Charger


Adapter


Belt clip

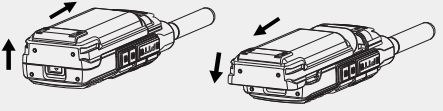

Hand strap


User’s manual

Accessories installing

Installing / Removing battery

Installing the battery pack, aim the four dents of battery to the corresponding guides in the rear of radio. Push the battery along the guides until the release latch in the rear of the radio clicks.
Removing the battery pack, please turn off the radio and pull down the release latch, then push the battery backwards along the guides.

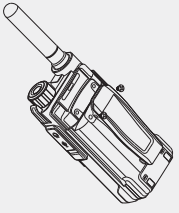


Installing/Removing the antenna

Rotate the antenna into the connector on the top of the radio by holding the antenna at its base and turning it clockwise until secure.
To remove the antenna, rotate the antenna in counter-clockwise.

Installing/Removing belt clip

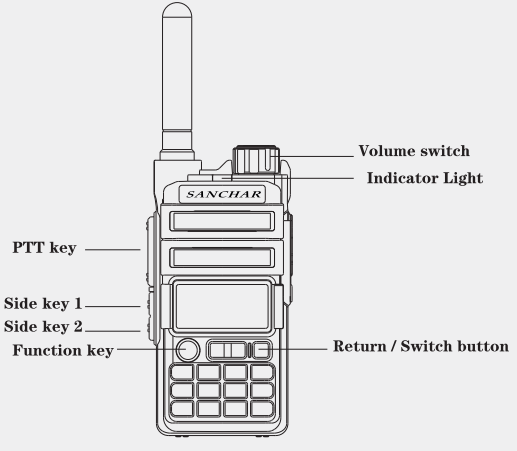
If necessary, screw the belt clip by two screw holes located in the rear of the radio to facilitate portablility.

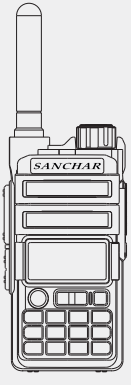


Install headset/microphone

To move the SP/MIC cover then put the headset/microphone into the jacks, will work immediately after being plugged in.

Keypads and LCD display




SANCHAR

LCD display instructions

You will see various icons shown on the screen when the transceiver is working. The following table can help you identify the icons which display on LCD.

Icon	Description
	Indicate current received signal strength and power level
L	Indicate current editing channel or transmitting channel is set up with low power
D	Indicate dual standby is activated
S	Indicate battery save function is activated
VOX	Indicate VOX of current editing channel or transmitting channel is activated.
+ –	Indicate the direction of offset frequency of current editing channel or transmitting channel in full frequency is plus or minus
R	Indicate Reverse Frequency is activated
N	Indicate narrow band is selected for current editing channel or transmitting channel
	Indicate keypad lock is activated
	Indicate SQ is activated
	Indicate prompt tone is activated
	Indicate receive Id or MSG from calling party
	Indicate privacy talk of current editing channel or transmitting channel is activated
	Indicate battery power level
CT	Indicate QT is selected for current editing channel or transmitting channel
DCS	Indicate DCS is selected for current editing channel or transmitting channel

DCS	Indicate DCS is selected for current editing channel or transmitting channel
DTMF	Indicate DTMF is selected for current editing channel or transmitting channel
▼	Indicate current editing channel in standby state, indicate current menu setting interface in menu operating state
▲	Indicate current editing channel in standby state, indicate current menu setting interface in menu operating state
75,25	Indicate frequency mantissa
188	Indicate channel number and menu number
▲	Indicate the channel is busy
★	Indicate channel is scannEXITle in channel number mode

Basic operation and initialization

Initialization

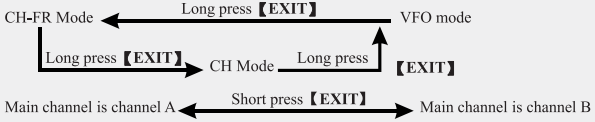
The new radio is used for the first time, and the LCD displays “NO DATA” indicates the need to initialize the memory.
The initialization methods are as follows:
1> Press [MENU] to power on, LCD displays “RESET?”
2> Press the [MENU] key to confirm, the LCD shows “VFO?”
3> Press [▲] or [▼] to select the initialization type to confirm.
The LCD displays "VFO ?" is to initialize the full frequency channel.
The LCD displays “FULL?” to initialize the whole radio. (★Please select the method to initialize for the first time use)
LCD display "AGING?" aging (Aging password is 5686)

Wire copy

Host (The radio that transmits messages in the process of copy)
Auxiliary (The radio that receives and saves messages in the process of copy)
Steps to perform wire copy operation:
1> The auxiliary radio is powered on normally and the host radio is powered off. Use a copy cEXITle to reliEXITly connect the host and the auxiliary.

2> Press the [PTT] key and the [▲] key to power on and enter into the wire copy preparation state, the LCD displays “CLONE”.
3> Press [MONI] key of the host radio to start copying.
During the copying process, the host displays “SEND” and the auxiliary does not update the display. If the copy succeeds, the host displays “END”; if the copy fails, the host displays “ERROR” or red light does not flash. At this time, press [MONI] to restart the copy.

Working mode changing



Introduction to Menu

Serial number	Prompt on display	Optional setting	Menu description
01	SCAN	/	Activate scan
02	TDR—TX	MAIN/BUSY	Dual standby transmission channel selection
03	VOX—S	1-8	VOX level setting
04	POWER	LOW/HIGH	Transmit power of current channel
05	SQ—LEV	0—9	Squelch level
06	TDR	ON/OFF	Dual standby
07	LIGHT	ON/AUTO / OFF	Backlight

08	SCREEN	BLUE/ ORANGE/ PURPLE	Backlight color
09	BEEP	ON/OFF	Keypad tone
10	ID—COD	ON/OFF	Identification
11	APRO	OFF/COMP/SCR	Voice mode
12	SCR—NO	1—8	Selection of channel scrambling group
13	TOT	OFF/30/60/…/270	Transmitting time limit
14	BSY—LK	OFF/WAVE/CALL	Busy channel lockout
15	VOX	ON/OFF	VOX switch
16	ROGER	ON/OFF	End prompt tone
17	FM—TDR	ON/OFF	Monitor the radio when listen to FM radio
18	RX—SAV	ON/OFF	Receiver power saving
19	SC—REV	TO/CO/SE	Scan mode
20	AUTO—LK	ON/OFF	Auto keypad lock
21	VOICE	OFF/ENG/CHN	Voice prompt switch
22	PON—SET	OFF/BATT/MSG	Boot greeting
23	BATT	/	Battery voltage
24	MSG—PON	—1A，@	Boot greeting characters
25	SHIFT—D(VFO mode)	+/—/OFF	Frequency difference direction
	DIS—NM(CH mode)	ON/OFF	Display channel name
26	OFFSET(VFO mode)	0.000-99.995MHz	Offset frequency
	CH—NM(CH mode)	—1A，@	Channel name editing

27	SEEK 67.0	/	Seek CTCSS
28	SEEK D023N	/	Seek DCS
29	C—QTDCS	OFF/67.0/D023N	Receive/Transmit QTDCS
30	R—QTDCS	OFF/67.0/D023N	Receive QTDCS
31	T—QTDCS	OFF/67.0/D023N	Transmit QTDCS
32	STEP	5K/6.25K/…/25K	Step frequency
33	WN	WIDE/NARR	Wide band, narrow band

Menu setting methods

The menu setting methods are as follows:
1> Press [MENU] to enter the menu operation interface in standby mode, the LCD displays “MENU”.
2> Press [▲] or [▼] to select the menu item you intent to modify. The main LCD displays the brief introduction of the current menu and the bottom of the LCD displays the current setting of this menu, the small number displays the menu number.
3> Press [MENU] to confirm the access, press [▲] or [▼] to select the specific setting, and the small number displays the “SET” prompt.
4> Select complete, press [MENU] to confirm.
5> Press [EXIT] twice to exit the menu settings.

Dual standby transmitting channel selection

Menu 2 selects “MAIN” to indicate that the main channel is always transmitted, and “BUSY” to indicate the previous call channel transmission.

VOX level setting

Menu 3 (VOX level setting) , eight levels, the greater the level, the more sensitive;
MYT X6 can be set VOX independently for each channel. To use the VOX function, turn on menu 15.

Busy channel lockout

Menu 14 (Busy Channel Lockout) has three options to select..
OFF: Turn off ; can transmit no matter whether there is signal on the channel or not.
WAVE: Carrier forbidden; indicates that SQ is received on the current channel, and transmission is prohibited regardless of whether the receiving QTDCS is correct or not.
CALL: The QTDCS is forbidden; it indicates that there is a signal on the current channel and the received QTDCS is matched, transmitting is forbidden, if the received QTDCS is not matched, it can still be transmitted. (When the channel is not set to . receive QTDCS, there is no actual difference between the options WAVE and CALL)

Power–on display information setting

Menu 22 selects "BATT" to indicate the battery voltage when radio is power–on; selects the "MSG" to indicate power–on display characters; selects "OFF" to indicate no power–on display information.

Boot greeting characters setting

1> Press [MENU] to enter the menu operation interface in standby state, press [▲] or [▼] to select menu 24
2> Press [MENU] to confirm entering the setting state, and the first character of the boot greeting characters is blinking.
3> Press [▲] or [▼] to select the character you want.
4> Press [* LOCK] to switch to the next character; press [# REV] to switch to the previous character.
5> After completing setup, press [MENU] to confirm.

Offset frequency setting

1> Press [MENU] during VFO mode to enter the menu operation interface, press [▲] or [▼] to select menu 26
2> Press [MENU] to confirm entering the setting.
3> Press the numeric key to enter the offset frequency you want.
4> Finish input and press [MENU] to confirm.

Receive/Transmit QTDCS setting

1> Press [MENU] during standby to enter the menu operation interface, press [▲] or [▼] to select menu 29
2> Press [MENU] to confirm entering the setting state.
3> Press [* LOCK] to switch the signaling type (OFF–>QT–>DCS–>OFF)
4> Press [▲] or [▼] to select the group you want.
5> When the selected signaling is DCS, press [# REV] to select the DCS direction.
6> Press [MENU] to confirm the setting.

Keyboard lock ON/OFF

Press [* LOCK] for 2 seconds during standby to turn off the keyboard lock.

Reverse Frequency ON/OFF

Press [# REV] for 2 seconds during standby to turn off the reverse Frequency.

Monitor

Press [MONI] to start monitoring during standby, and release the button to stop monitoring.

1750

During standby, press [CALL] for 2 seconds to send 1750 signaling on the current channel, and release the [CALL] button to end the transmission.

STC-804 optional signaling operation instructions

STC-804 supports two optional signaling (MSK, DTMF)

DTMF section:

[Edit] → [Optional Function] → [Optional Signaling] → [DTMF] Settings are as follows:

Step 1: Use the frequency programming software to edit edit the contents of the quick call list. The radio can store up to 10 groups of quick call lists.

Step 2: Enter the required code (up to 16 characters) in the required correspondence list.

Step 3: Select the DTMF decoding scheme according to your needs: “Code squelch” or “Select call”.

When “Code squelch” is selected, the squelch is turned off when the “DTMF” of the setting “ID code” is received.

When “Select call” is selected, the squelch is turned off when the “XXX + intermediate code” of the setting "ID code" is received.

Step 4: When selecting “Select Call”, please select the intermediate code.

Step 5: Set the group call code as needed, finish input, click to save and then exit; the group call code can replace any codes when actually decoding.

DTMF can realize single call, group call, group call by setting group call code.

For example:

There are two sets of radio ID codes as follows, group call code is set to be A

Group A No. 1 radio ID code 12345 No. 2 ID code 12346 No. 3 ID code 12347 No. 4 ID code 12349

Group B No. 1 radio ID code 12385 No. 2 ID code 12386 No. 3 ID code 12387 No. 4 ID code 12389

Single call: Send only the ID code corresponding to the X radio you want to call, so that only the radio you want to call will respond; the rest of the radios will not respond.

Group number: If you want to call Group A, only need to send 1234A, then all radios in Group A will respond and Group B will not; the same as if want only call Group B, just need to send 1238A

Group call: If you want to call the whole group, only need to send 123AA or 12AAA....; then all radios will respond.

Set the following in the Channel [more] option

Step 6: Select the optional signaling as DTMF for the channel you need; enter the ID code (Code squelch is 3–10 bits, and the selective call is fixed to 3 bits). When the setting is completed, write the edited information to the radio.

DTMF encoding for using radio

Step 1: Turn on radio, select the channel that the optional signaling is DTMF.
Step 2: Short press the [MONI] key once: LCD displays "CALL / DTMF?", press the number keys 0–9 to call up the corresponding quick call list content and call out; if the corresponding call list is not currently edited, "beep" tone will prompt.

MSK section:

Edit the MSK information of the radio (ID code corresponds to receiving, call list corresponds to transmitting)
Step 1: Use the programming software to edit the contents of the call list. The radio can store up to 10 group of call lists.
The location of the call list in the programming software: [Edit] → [Optional Function] → [Optional Signaling] → [MSK]
Step 2: Input the required encoding (fixed 4 digits) in the corresponding list you require; finish input, click to save and then exit.

Step 3: Input the corresponding decoding ID (fixed 4 digits) of the radio in the "ID Code" setting box.
Step 4: Set the optional signaling as MSK for the channel you need to use the MSK function.

Location of the channel optional signaling in programming software: in [more] options for each channel, when the setting is completed, write the edited information to the radio.

MSK encoding for radio

Step 1: Turn on radio, select the channel that the optional signaling is MSK.
Step 2: Short press the [MONI] key once: the LCD displays "CALL / MSK?", press the number keys 0–9 to call up the corresponding quick call list content and call out; if the corresponding call list is not currently edited, "beep" tone will prompt.

SANCHAR WIRELESS COMMUNICATIONS LTD.

X-47, Okhla Industrial Estate Phase 2, South East Delhi, Delhi-110020
+91-11-4054 7324 info@sancharcomm.in www.sancharcomm.in