G3U

**License Free
Walkie - Talkie
UHF Analog Handheld
ETA-SD-20191106922**

SANCHAR
WIRELESS COMMUNICATIONS LTD.

INSTRUCTION MANUAL

RADIO ILLUSTRATION

1. **Led indicator**
   It lights red when transmitting, and lights green when receiving.

2. **Channel-selecting knob**
   Rotate it to select channel 1-16, clockwise rotation to increase, counter – clockwise rotation to decrease. An alert tone will sound when an empty channel is selected.

3. **Power/Volume knob**
   Rotate it by clockwise to power on the radio. To turn off the radio, rotate it by counter-clockwise until a click sound is heard.

4. **PTT switch**
   Press PTT switch and then talk to the microphone, the indicator light turns red, if the channel does not have transmitting frequency, a "Du Du" tone sounds, and indicator light turns red.

   Release PTT switch to receive. It lights green when there is signal.

Indicator light

Channel Knob

Power switch / Volume knob

PTT Key

Side Key - 1

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SCS

5. Side key assignment
Side key functions can be assigned via programming software.
Short press: A. Monitor B. Scan

2

6. **Squelch level**
   The squelch level will determine the signal strength to open the speaker of the radio. If the squelch level is lower, the background noise of opening the radio's speaker will be higher, and the corresponding communication range will be further, but he the anti-interference capacity will be weaker. The default setting of squelch level is 3, you can adjust it through the menu "Squelch level" of the "Optional features" in the software, level 0 to 9 can be selected. 0 is the lowest level.

7. **Time-out Timer (TOT)**
   The purpose of TOT is to prevent any radios from talking in one channel for too long time, and to prevent the radio from being damaged due to continuous transmission. If the transmitting time exceeds the TOT pre-set time, the radio will stop transmission and an alert tone sounds. Release PTT switch to stop the alert tone, the radio resume to receiving mode.

8. **Non-standard QT/DQT**
   Non-standard QT/DQT can be set via programming software, can select from 67.0 to 254.1Hz.

9. **Battery save function**
   The battery capacity will be saved when this function is turned on via programming software.
   OFF: No battery save
   ON: Battery save

3

10. Busy channel lockout (BCL)

You can turn on/off the BCL function of every channel via programming software. If set it, no transmitting when press PTT, and will beep "Di" until release PTT.

11. High/ Low power selective

The default setting by factory is high power , can select H/L via programming software.

12. Wide/Narrow band selective (25.0KHz/ 12.5KHz)

The default setting by factory is Wide band, can select W/N on the channel working on wide band or narrow band.

13. VOX

No need press PTT to talk when transmitting. If no talking, transmitting will stop. The function can be set ON/OFF by programming software.

When wear headset, should adjust the VOX gain, set the VOX gain, to make the radio distinguish the sound. If the headset is too sensitive, the noise around will make the radio transmit. If the microphone is not that sensitive, the radio can not receive your voice. You should adjust the gain well to make the communication successfully.

14. Programming encryption

It is set by programming software.

15. Scrambler

You can turn on/off scrambler function in every valid channel via programming software. It is one of information encryption type. Every channel can select scrambler group. There are eight group for optional.

4

16. QT/DQT

QT/DQT can be set via programming software. When a channel has QT/DQT, the squelch will turn on when receive the same QT/DQT. If the QT/DQT is different in the same channel, the squelch will not turn on, only the indicator light turns green.

QT/DQT charts as follow:
50 QT code (Hz)

67.0	69.3	71.9	74.4	77.0	79.7	82.5	85.4	88.5	91.5
94.8	97.4	100.0	103.5	107.2	110.9	114.8	118.8	123.0	127.3
131.8	136.5	141.3	146.2	151.4	156.7	159.8	162.2	165.5	167.9
171.3	173.8	177.3	179.9	183.5	186.2	189.9	192.8	196.6	199.5
203.5	206.5	210.7	218.1	225.7	229.1	233.6	241.8	250.3	254.1

License Free Frequency Table

Channel	RX Frequency	TX Frequency
1	446.00000	446.00000
2	446.01250	446.01250
3	446.02500	446.02500
4	446.03750	446.03750
5	446.05000	446.05000
6	446.06250	446.06250
7	446.07500	446.07500
8	446.08750	446.08750
9	446.10000	446.10000
10	446.11250	446.11250
11	446.12500	446.12500
12	446.13750	446.13750
13	446.15000	446.15000
14	446.16250	446.16250
15	446.17500	446.17500
16	446.18750	446.18750

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