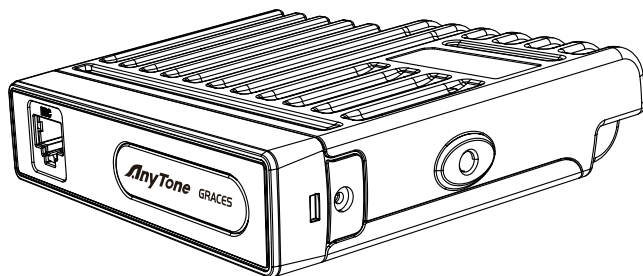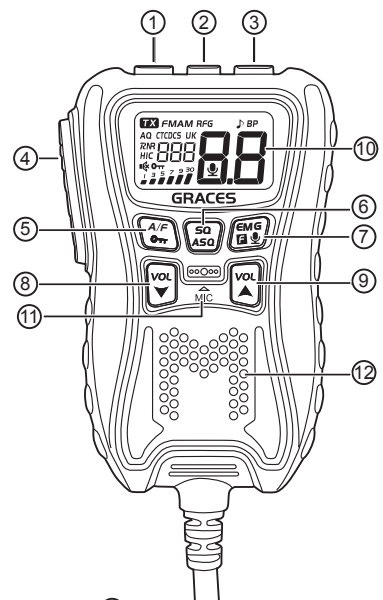# AnyTone®

GRACES

CB RADIO

Instruction Manual

Qixiang Electron Science & Technology Co., Ltd.

www.anytone.net

1.KNOW ABOUT THIS RADIO

1	Channel Down ~ Scan On/Off
2	Power On/Off ~ Speaker Mute
3	Channel Up ~ Scan On/Off
4	PTT
5	Modulation Mode Select ~ Keypad Lock
6	Squelch Level Setting ~ SQ/ASQ Switch
7	CH9/CH19 ~ VOX On/Off ~ Menu
8	Decrease volume level
9	Increase volume level
10	LCD
11	Microphone
12	Built–in Speaker
13	Control Unit Connection Jack
14	Antenna Jack
15	External Speaker Jack
16	Power Cable
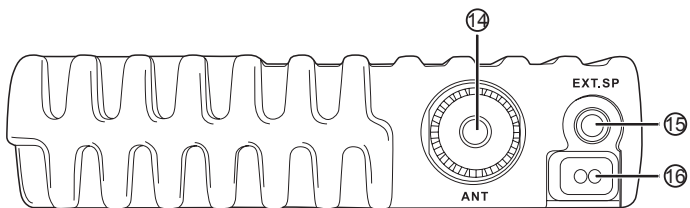
2.HOW TO USE THIS RADIO

2.1 Power On/Off the Radio...

1. Short press 🎙 key, the radio emit a prompt and LCD display on.
2. When the radio on, hold 🎙 key until nothing appears on LCD and release 🎙 key, the radio will power off.

2.2 Volume Control..

1. Short press ▼ or ▲ key to adjust volume, LCD shows " 𝘜𝘰𝘓 XX " for 2 seconds which means volume level.Total is 27 levels.
2. Hold ▲ key can fast increase volume level, hold ▼ key can fast decrease volume level.

2.3 Mute Function..

1. Short press 🎙 key will fastly mute the speaker, " 🔇 " appears on the LCD.
2. Short press 🎙 key again, the volume will resume to previous volume level setting, " 🔇 " disappears from the LCD.

2.4 Channel Control..

1. Short press ▼ or ▲ key to choose channel.
2. Hold ▼ or ▲ key to choose channel fastly.

2.5 Squelch Level Control..

1. Short press key, until LCD shows " 𝘚𝘘𝘓 XX ", Total is 34 levels, the bigger value stands for high squelch level.
2. Short press ▼ or ▲ key to change SQ level.
3. Hold press ▼ or ▲ key can fast change SQ level.
4. Short press key again or wait for 2 seconds to store and exit.

⚠ » *The higher SQ level selected, the stronger signal required to open speaker and hear the calling.*

2.6 ASQ Control..

1. Hold key, until LCD displays AQ, the ASQ function turned on. The LCD will shows " 𝘈𝘚𝘘 XX ", Total is 9 levels, the bigger value stands for high squelch level.
2. Short press ▼ or ▲ key to change ASQ level.

2.HOW TO USE THIS RADIO

3. Hold press ▼ or ▲ key can fast change ASQ level.
4. Short press key again or wait for 2 seconds to store and exit.

⚠ » *The higher ASQ level selected, the stronger signal required to open speaker and hear the calling.*

2.7 Mode Control..

1. Short press key to switch between FM / AM mode.
2. The LCD displays the selected mode.

2.8 Keypad Lock..

1. Hold key for over 3 seconds to lock the keys, " 🔒 " appears on the LCD.
2. Hold key for over 3 seconds again to unlock the keys, " 🔒 " disappears from the LCD.

⚠ » *In lock Mode all keys except PTT is valid.*

2.9 Emergency Channel..

1. Short press key to choose CH9, the channel number blinks on LCD.
2. Short press key again to choose CH19, the channel number blinks on LCD.
3. Short press key third time to return to last normal channel.

2.10 VOX ....

1. Press and hold the [PTT] switch.
2. Short press key to activate or deactivate the VOX function, " 🎤 " appears on the LCD when the function is active.

2.11 Scan Function ....

1. Press and hold ▼ or ▲ key for 7 seconds or until a beep sounds to start scan function. The dot between the two channel digits flashes to indicate that the function is active.
2. Short press ▼ or ▲ key to change scan direction during scan;
3. Press [PTT] switch to exit scan function.

2.12 Frequency Band Selection ....

1. Hold 🔘 key while pressing 🔘 key until full appears on LCD and release 2 keys, the current frequency band blinks on LCD;

2. Short press 🔘 or 🔘 key to choose wanted frequency band;

3. When the frequency band is selected, hold press 🔘 key to store and exit.

2.13 Install External Speaker ....

Choose a 16Ω external speaker with 3.5mm mono connector.

⚠ » *WARNING:The sound output mode of the machine is BTL output, and the two pins of the speaker cannot be connected to the ground net or the machine shell! Otherwise, there will be a large DC current flowing through the speaker, which will burn the speaker and components.*

2.14 Menu Operations ....

1. Long press 🔘 key to enter menu list.

2. Short press 🔘 or 🔘 key to select menu to be set.

3. Short press 🔘 key to enter function setting parameter of the selected function, the parameter blinks on LCD.

4. Short press 🔘 or 🔘 key to change the parameter.

5. Short press 🔘 key to validate and stay in the MENU.

6. Long press 🔘 key or [PTT] key or wait 10 seconds to store exit MENU.

LCD Display	Function Detail	Setting Details
col	Backlight color setting	rE (red/default), gr (green), bL (blue), CY (cyan), PU (purple), YE (yellow), CL (white)
bEP	Beep sound	on: turn on beep sound (default) oF: turn off beep sound
rbP	RB sound setting	oF (default), 01~06 oF: turn off RB sound function

LCD Display	Function Detail	Setting Details
ni 9	Mic gain control	Level: 01~09 Default: 05
Scn	Scan type setting	59: squelch scan (default) ti : time scan
ULE	VOX sensitivity level setting	Level: 01~09 Default: 03
Uti	VOX delay time setting	Level: 01~09 Default: 04
rF9	RF gain level control	oF (default), 03、06、09~48
tot	Time out timer	oF, 01~10 Min Default: 03
Hi c	HI-Cut setting	on: turn on HI-Cut function oF: turn off HI-Cut function (default)
tnr	TX noise reduction level setting	oF, 01~05 88: turn off TX noise reduction function. Default: 01
rnr	RX noise reduction level setting	oF, 01~05 oF: turn off RX noise reduction function. Default: 01

2.15 CTCSS/DCS Set ....

1. Long press 🔘 key to enter menu list.

2. Short press 🔘 or 🔘 key to select the CTCDCS menu.

3. Short press 🔘 key to validate, the code type blinks on LCD.

4. Short press 🔘 or 🔘 key to select the code type.
   oFF: stands for not set.
   ctc: stands for CTCSS tone.
   dc5: stands for DCS code.

5. Short press 🔘 key to confirm the code type. The code value flashes (unless selected)

6. Short press 🔘 or 🔘 key to select the code (form 01 (01) to 38 (38) for CTCSS and 01 (01) to 100 (o00) to 104 (o04) for DCS)

7. Short press 🔘 key to confirm the selected code.

2.16 Resume Factory Default ....

1. Long press 🔘 key to enter menu list.

2. Short press 🔘 or 🔘 key to select the " rESEt "menu.

3. Short press 🔘 key to validate. " rESEt " blinks on LCD.

4. Short press 🔘 key until " rESEt " stops blinking.

5. Release 🔘 key, the radio automatically reseted.

GENERAL		
Modulation Mode		AM/FM
Frequency Range		26.965~27.405MHz
Frequency Tolerance		±5.0ppm
Input Voltage		13.2V
Dimensions		100x104x25mm
Weight		255g
Ferquency Control		PLL Synthesizer
Operating Temperature Range		−20℃ to +50℃
Current Drain	Transmit	2A MAX
	Receive	Squelched 0.3A
	VOL Max	0.8A
Antenna Connector		UHF, SO−239
TRANSMITTER		
Power Output		4 Watts FM/AM
Transmission interference		inferior to 4nW(−54dBm)
Frequency Response		300~3000Hz
Modulated signal distortion		inferior to 5%
Output Impedance		50 ohms
RECEIVER		
Sensitivity		Less than 1uV for 10dB(S+N)/N
Image Rejection		70dB
Adjacent Channel Rejection		60dB
IF Frequencies		1st 10.695MHz
		2nd 455KHz
Automatic Gain Control(AGC)		Less than 10dB change in audio
		Output for inputs from 10 to 50000uV
Squelch		less than 1uV
Audio Output Power		1Watts
Frequency Response		300~3000Hz

A2.220906

WARNING

FCC Statement

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Verification of harmful interference by this equipment to radio or television reception can be determined by turning it off and then 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.

RF Exposure Warning Statements:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment shall be installed and operated with minimum distance 69cm between the radiator & body.

WARNING:

MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBIITED

UNDER FCC RULES AND FEDERRAL LAW.