



Qixiang Electron Science & Technology Co., Ltd

www.anytone.net



AT-505MINI

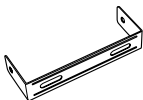
CB RADIO

Instruction Manual

1. ACCESSORIES



Microphone



Mobile Bracket



Microphone Hanger



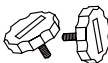
non-slip mat



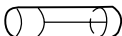
Pads



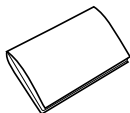
Tapping screws



Adjusting screws

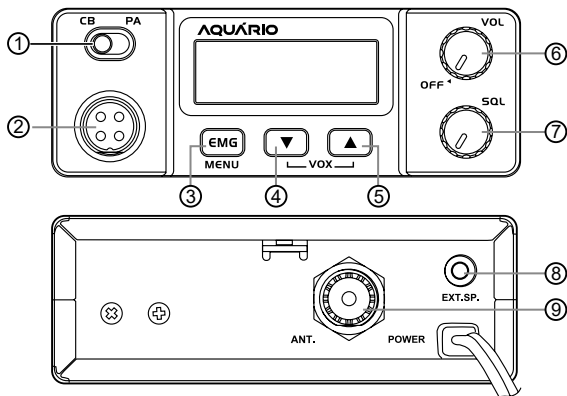


Spare Fuses
3A 250V

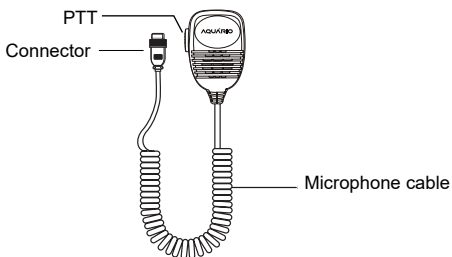


User Manual

2. KNOW ABOUT THIS RADIO



1	2 Position Switch : CB and PA
2	Microphone Plug
3	Emergency Channel ~ Menu
4	Channel Down Selector ~ Scan On ~ VOX On/Off
5	Channel Up Selector ~ Scan On ~ VOX On/Off
6	Power On/Off ~ Volume Control
7	Squelch Control
8	External Optional Speaker Jack
9	Antenna Jack



3. LCD



AM AM mode selected

TX Indicates transmission

PA PA mode selected

VOX VOX function activated

88 Indicates the active channel

RB ROGER BEEP function activated

1 3 5 7 9 +30dB TX or RX bargraph

4. HOW TO USE THIS RADIO

4.1 Power On/Off the Radio

Turn the **VOL** knob clockwise to power on the radio, the LCD displays the Norms and then displays channel number.

Turn the **VOL** knob anti-clockwise, until hear Ka Ta, the radio is powered off.

4.2 Volume Control

Turn the **VOL** knob clockwise to increase the volume, turn it anti-clockwise to decrease the volume.

4.3 Manual Squelch Control

Turn the **SQL** knob clockwise to the exact point where all background noises disappear. This adjustment should be done with precision as, if set to maximum (fully clockwise), only the strongest signals will be received.

4.4 Channel Selector ~ SCAN

※Channel Selector

Short press  /  keys to change channels by one step.

Hold  /  keys can fast changed channels.

※Channels Scan (very long press)

Press and hold  /  keys for 7 seconds or until a beep sounds activate the 40 channels scan function. The scanning stops as soon as there is a busy channel and the channel number flashes.

In scanning mode, press  /  keys to change scan direction.

Press **PTT** switch to exit channels scan.

4.5 VOX

Press simultaneously the  and  keys on the unit in order to activate the VOX function, " **VOX** " is appears on the LCD. A new press on these keys disables the function, " **VOX** " disappears form the LCD.

4.6 CB ~ PA

Toggle the **CB/PA** switch to modify the modulation mode **AM** or **PA**.

Corresponding mode is appears on the LCD.

4.7 Emergency Channels ~ MENU

※Emergency Channels (short press)

Press the  key, the radio automatically tune to channel 9.

Press the  key again, the radio automatically tune to channel 19.

Press the  key third time to return to the previous channel.

※MENU (long press)

Long press  key to enter the menu.

4.8 Transmitting

Press and hold the **PTT** switch on the microphone to transmit a message, " "is appears on the LCD. Release the switch to listen to an incoming communication, " " disappears from the LCD.

4.9 Install External Speaker

Choose a 8Ω external optional speaker with 3.5 mm mono connector.

4.10 Resume Factory Default

Turn on the power while pressing the  key and the  key on the unit to reset to the factory settings.

4.11 Menu Operations

Long press  key to enter the menu function setting.

Short press  key to select the menu to set, the parameter appears on the LCD.

You can set the following:

4.13.1. VOX sensitivity

4.13.2. VOX delay time

4.13.3. Roger beep

4.13.4. Key beep

4.13.5. Backlight brightness

4.13.6. TOT (Time out timer)

4.13.7. PA-RX path

Short press  /  keys to modify the value of the parameter.

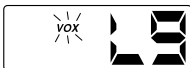
Press **PTT** switch or long press  key or wait for 10 seconds to store and exit MENU.

4.11.1. VOX Sensitivity

VOX sensitivity allows the adjustment of the microphone for an optimum transmission quality.

At VOX sensitivity menu, "**VOX**" blinks, the current setting and its value appear on the LCD.

Adjustable level from **L1** (high level) to **L9** (low level). Default value is: **L3**.

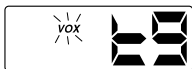
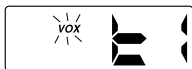


4.11.2. VOX Delay Time

VOX delay time allows avoiding the sudden cut of the transmission by adding a delay at the end of speaking.

At VOX delay time menu, "**VOX**" blinks, the current setting and its value appear on the LCD.

Adjustable level from **L1** (short delay) to **L9** (long delay). Default value is: **L4**.



4.11.3. Roger Beep

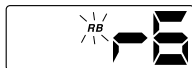
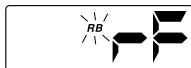
The Roger Beep function signals the receiver that the other end has ended the radio message.

At Roger Beep menu, "**RB**" blinks, the current setting appear on the LCD.

Use the **▼** / **▲** keys to activate (**R1** to **R6**) 6 roger tones / deactivate (**R0**) the function.

Default setting is: **R0**.

When the function is active, "**RB**" appears on the LCD.



4.11.4. Key Beep

When the function is activated, a beep sounds when a key is pressed.

At key beep menu, press the  /  keys to activate () / deactivate () the function.

Default setting is: .



4.11.5. Backlight Brightness

This function allows adjusting the brightness of the lighting.

At backlight brightness menu, press the  /  keys to change the value of the backlight brightness. 3 steps from  to . Default value is: .



4.11.6. TOT (Time Out Timer)

If the PTT switch is pressed for more than "TOT" time, the display starts blinking and the transmission ends. A beep will sound until the PTT switch is released.

At TOT menu, press the  /  keys to set the TOT,  disable the function. Time range  to , time stepping is: 1 minute. Default value is: .



4.11.7. PA-RX Path

This function allows to select the operating mode of the PA.

At PA-RX Path menu, "**PA**" blinks, the current setting appear on the LCD.

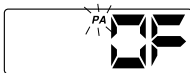
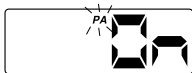
Press the  /  keys to select the operating mode of the PA : ON, OF.

 : the modulation of the microphone and the received signal are transmitted to the internal loudspeaker (or external optional loudspeaker)

connected to jack **EXT.SP.**).

OFF : The reception is no more functional. Only the modulation of the microphone is transmitted to the internal loudspeaker (or external optional loudspeaker connected to jack **EXT.SP.**).

Default setting is: **PA**.



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, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.
- 3)

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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.

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 51.4cm between the radiator & body.

5. SPECIFICATION

GENERAL		
Modulation Mode		AM
Frequency Range		26.965–27.405MHz
Frequency Tolerance		± 5.0ppm
Input Voltage		12V
Dimensions		125x153x45mm
Weight		524g
Operating Temperature Range		–20°C to +50°C
Current Drain	Transmit	3A MAX
	Receive	Squelched 0.3A
	VOL Max	0.7A
Antenna Connector		UHF, SO–239
TRANSMITTER		
Power Output		4 Watts
Transmission interference		inferior to 4nW
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		2Watts at 8Ω less than 10% distortion
Frequency Response		300–3000Hz