AnyTone AT-779UV Mobile Radio Instruction Manual

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WARNING

FCC Warnings and Statements

IMPORTANT
Changes or modifications to this unit not expressly approved by Qixiang Electron Science & Technology Co., Ltd. could void your right to operate this unit. Your radio is set up to transmit a regulated signal at an assigned frequency. It is against the law to alter or adjust the setting inside the COMMUNICATOR to exceed those limitations. Any adjustment to your radio must be made by qualified technicians. This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with a minimum distance of 71.372 cm between the radiator & body. For a transmitter that can only be operated with an FCC license, warnings concerning compliance with applicable licensing requirements and information concerning the license application procedures.

IMPORTANT NOTICE, FCC LICENSE REQUIRED FOR GMRS OPERATION

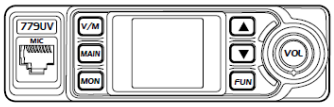
(Only Applicable for GMRS Radio Use in the United States)
The radios operate on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. You must be licensed prior to operating on channels 1-22, which comprise the GMRS channels of the radio. Serious penalties could result from the unlicensed use of GMRS channels, in violation of FCC rules, as stipulated in the Communications Acts Sections 501 and 502 (amended). You will be issued a call sign by the FCC which should be used for station identification when operating the radio on GMRS channels. You should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of your transmission time. To obtain a license or ask questions about the license application, contact the FCC at 1-888-CALL FC& or go to the focus.

GMRS Frequency List

CH. No	CH. Freq	Power	CH. No	CH. Freq	Power
1	462.5625		16	467.5750	
2	462.5875		17	467.6000	
3	462.6125		18	467.6250	
4	462.6375	5W	19	467.6500	20W
5	462.6625		20	467.6750	
6	462.6875		21	467.7000	
7	462.7125		22	467.7250	
8	--		23	--	
9	--		24	--	
10	--		25	--	
11	--		26	--	
12	--		27	--	--
13	--		28	--	
14	--		29	--	
15	467.5500	20W	30	--	

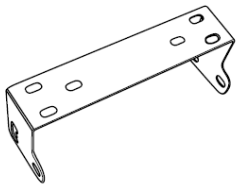
ACCESSORIES

Standard Accessories

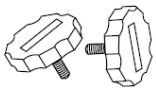


Transceiver

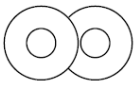
Microphone



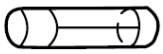
Mobile Bracket



Adjusting screws



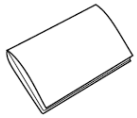
non–slip mat



Fuse(10A 250V)

Screws

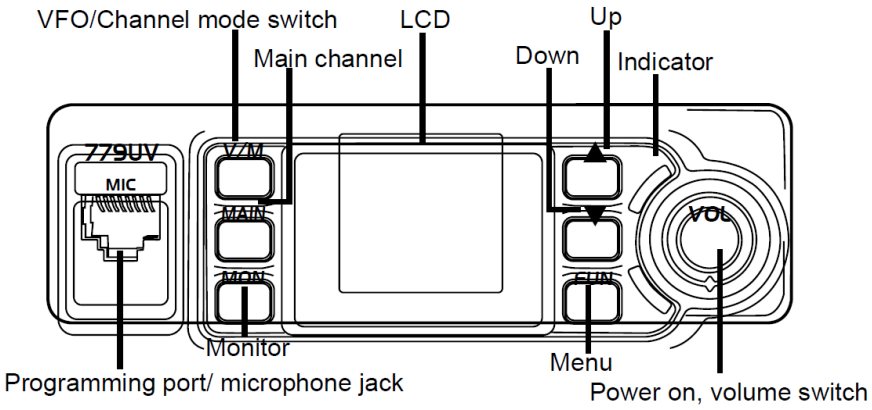
Pads



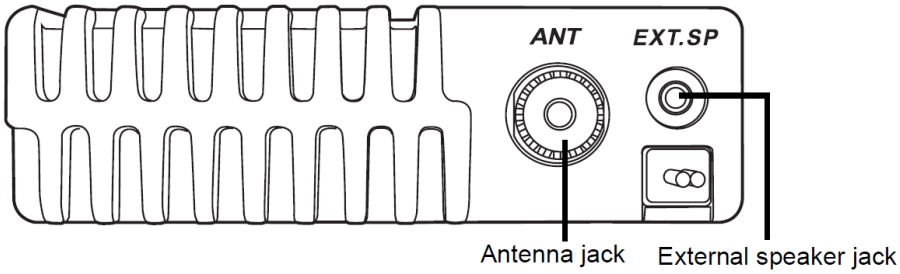
manual

GETTING ACQUAINTED

Front panel

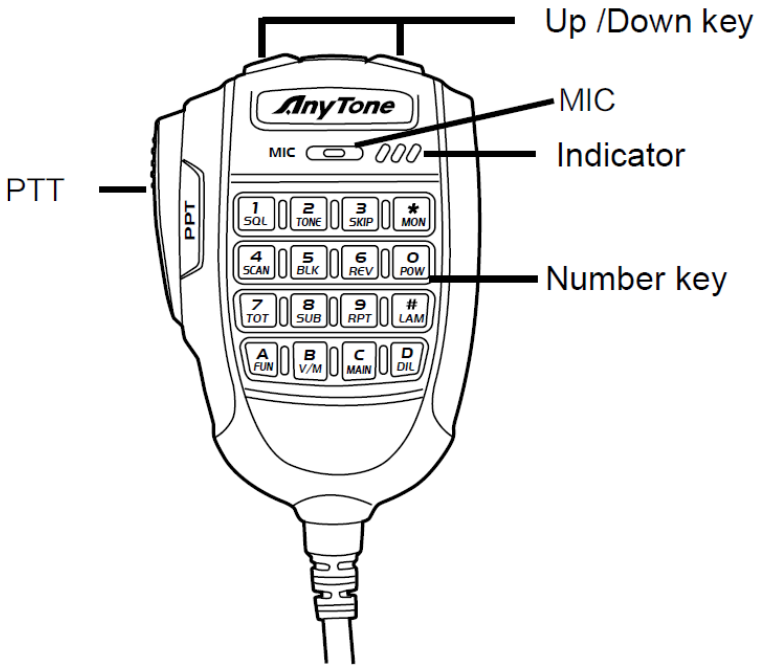


Rear panel



Note: To get the best range from the external whip antenna(50)should be used Ant: T× GMRS, Rx: 136-174&400-490Mhz, OdBi. installation is height <3m.

Microphone



BASIC OPERATIONS

Switching the Power On/Off

Turn the Volume knob clockwise to turn on the radio, the radio LCD will display programmed text and emit a beep sound

Power Off: Turn the volume knob anti-clockwise until hear a Click" to turn off the radio.

Adjusting the Volume
Turn the volume knob clockwise to increase volume and anti-clockwise to reduce it.

Switch between Main Channel and Sub Channel

In standby states, press the microphone C MAIN key or front panel (MaIN key to switch between the main channel and sub-channel. The top left corner of the LCD will display the current main channel

Adjust Channel

1. Press the microphone) B V/M key or front panel key V/M to switch the radio to channel mode, press the microphone [UP |/ [D] key ▲ or ▼ front panel
2. A key to choosing a channel
3. In channel mode, input three numbers by number key to fast choose a channel.

Adjusting Frequency (Europe version only)

1. By number key: In FO mode, you can input the wanted frequency by the microphone number key. For example, if want 145.125Mhz, just press keys 1, 4, 5, 1, 2, 5, if want 145Mhz, just press 1, 4, 5. The input is invalid if the frequency is over range.
2. By step size: In FO mode, press microphone [UP] / [DNI or front panel the ▲ ke ▼ y can change frequency by the step size.#
3. The step size can be programmed by software from 2.5K to 50K.

Store channel
In standby states, press the microphone al key, and the top left corner will display Func then press [UP] KEY, and the LCD bottom left corner will display Save to XXX, now press [UP I / [DN | key to choose a channel number, and hold the lid key to store the new frequency and return to standby. A » XXX stands for the channel number, if LCD displays "Null" under "Save TO XXX", means the current channel is empty.

Store channel
In standby states, press the microphone key, the top left corner will display Function then press KEY, and the LCD bottom left corner will display Save to XXX,# now press the key to choose a channel number and hold * MON the key to store the new frequency and return to standby. XXX stands for the channel number, if LCD displays "Null" under "Save TO XXX", means the current channel is empty.

Channel Delete

In channel mode, press the microphone A FUN key, then press a key, the LCD displays "Delete XXX" and frequency, press the key to choose the channel to delete, and hold the key to delete to the current channel. "XXX" stands for the channel number, and the LCD displays "Null" after Channel deleted

BASIC OPERATIONS

Receiving

Choose a receiving channel or frequency MON for receiving calls, if the RX signal is weak, hold the front panel

* MON key or microphone A FUN key to monitor the weak signal. When the RX icon and field strength flash, but can not hear the calling. it means the current channel receives a matching carrier but unmatching signaling. Refer to CTCSS/ DCS CODE or Optional Signaling setup on Page 6).

Transmitting
Hold [PTT] and speak into the microphone. the radio starts transmitting, the screen shows red TX and field strength. Hold the microphone approximately 2.5-5.0cm from your lips and speak to the microphone in your normal speaking voice to get the best timbre

Emergency Alarm
In standby, hold the MAIN key, and release it until the LCD displays ALARM, and the alarm function turns on. Program emergency alarm rules shall be programmed by PC software.

Keypad Lockout

On standby, hold FUN a FUN key or A FUN key, the radio emits sound, and the LCD displays LOCK. Now release the key, the keypad is locked. To turn off the key lock, hold a FUN key or A FUN key until the radio emits, and the LOCK icon disappears. now release the key

Transmit Tone Pulse Frequency
Hold PTT and [DNI key will transmit selected Pre-programmed tone pulse frequency.

FO Scan and Channel Scan

1. VFO scan: In VFO mode, press the microphone A FUN key or 4 SCAN key to start the VFO scan. if the radio has program PL1, PH1,, PL2, PH2, PH2 frequency in the bottom of channel list), FO the scan will be between PL1-PL2 and PL2-PH2.
2. Channel Scan: In channel mode press the microphone (key A FUN and then press 4 SCAN a key to start the channel scan. Channel scan setting shall be programmed by PC software

FM radio

Press the microphone B V/M key or front panel V/M key to switch the radio to channel mode, Input FM radio frequency directly by the microphone number keys

SHORTCUT OPERATION

Press the microphone A FUN key and then press the number key TO fast enter the following functions, then press the [UP I / | DN | key to choose a value. Press [PTT| key or D DIL key to Store.

In DTMF check mode
When checking the DTMF code, press PTT will send the current DTMF code. To revise the DTMF code, press. key and then press the or key to enter edit mode. input DTF code by number keys, then press PTT to transmit the code and store it.

Function list

No.	Function name	Combination Key
1	Squelch level setting	A FUN + 1 SQL
2	Optional signaling setting	A FUN + 2 TONE
3	Scan Skip	A FUN + 3 SKIP
4	Scan	A FUN + 4 SCAN
5	Busy channel lockout	A FUN + 5 BLK
6	Frequency reverse	A FUN + 6 REV
7	Time out timer	A FUN + 7 TOT
8	Sub channel on/off switch	A FUN + 8 SUB
9	Offset direction	A FUN + 9 RPT
10	Function Menu	A FUN + * MON
11	Power setting.	A FUN + 0 POW
12	LCD brightless	A FUN + # LAM
13	DTMF Code check	A FUN + D DIL

FUNCTION SETTING
By Front Panel Key

1. Press the FUN key to enter the main menu.
2. Press V/M key or MAIN key to choose a function.
3. Press the ▲ key ▼ to choose a value.
4. Press the FUN key or (MON key to store and exit. When setting the DCS code, (the ON key is for switching between positive and inverse code.

By Microphone Key

1. Press A FUN key and then press * MON key to enter the menu.
2. Press the B V/M key C MAIN (key to choose the function.
3. Press the D DIL [UP] / [DN \key to choose a value.
4. Press bi key to store and exit
5. When setting the DCS code, 1 SQL the key is for switching between Positive and inverse code. 3 SKIP key is for choosing a special DCS.

Function list

No.	Function name	Setting value
1	TX CTC/DCS	67Hz~254.1Hz 000N~777I
2	RX CTC/DCS	67Hz~254.1Hz 000N~777I
3	TX/RX CTC/DCS	67Hz~254.1Hz 000N~777I
4	Optional signaling	OFF DTMF 2Tone 5Tone
5	Squelch mode	SQ CT/DCS Tone C&T C/T
6	Step size	2.5K~50K
7	Band width	WIDE 25K NARROW 12.5K
8	Reverse	ON OFF
9	Talk around	ON OFF
10	Offset frequency	0~70MHz

FUNCTION SETTING

No.	Function name	Value
11	Busy channel Lock	OFF REPEATER BUSY
12	Channel name	0~z
13	TX OFF	ON OFF
14	Scramber	1~11 edit OFF
15	Compander	ON OFF
16	NC(Noise reduction)	ON OFF
17	5Tone	1~100, Press PTT to transmit
18	2Tone	1~32, Press PTT to transmit
19	Sub channel display	FREQ VOLT OFF
20	Key beep	ON OFF
21	Time out timer	1~30Min OFF
22	DMTF transmit time	50ms~500ms
23	Squelch level	OFF 1~9
24	Scan pause time	5ST 10ST 15ST 2SP
25	LCD brightness	1~5
26	Tone burst frequency	1750Hz 2100Hz 1000Hz 1450Hz
27	Channel display	FREQ CH NAME
28	Reset	FACTORY INITIALIZE

SPECIFICATIONS

GENERAL			
Frequency Range	Europe version: TX/RX: 144-14 USA version: TX/RX: 467.55-467 TX/RX: 462.5625-4 RX: 136-174MHz		6MHz , 430-440MHz .725MHz 62.725MHz , 400-490 MHz
Channel Spacing	Europe version: 25K (Wide Band) 12.5K (Narrow band) USA version: 12.5K		
Phase-locked Step	2.5KHz,5KHz,6.25KHz,10KHz,12.5KHz,15KHz,20 KHz,25KHz,30KHz,50KHz		
Operating Voltage	DC 13.8V±15%		
Squelch	Carrier/ CTCSS/DCS/5Tone/2Tone/DTMF		
Frequency Stability	±2.5ppm		
Operating Temperature	-20℃ ~ +60℃		
Dimensions(mm)	124x101x36mm		
Weight	0.45 kg	(main unit)	
RECEIVER			
	Wide band	Narrow band	
Sensitivity (12dB Sinad)	≤ 0.25μV	≤ 0.35μV	
Adjacent Channel Selectivity	≥ 70dB	≥ 60dB	
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)	
Hum & Noise	≥ 45dB	≥ 40dB	
Audio distortion	<3%		

Audio power output	> 2W@10%	
TRANSMITTER		
	Wide band	Narrow band
Power Output	VHF: 25/5W, UHF: 20/5W	
Modulation	16KΦF3E	11KΦF3E
Adjacent Channel Powe	≥ 70dB	≥ 60dB
Hum & Noise	≥ 40dB	≥ 36dB
Spurious Emission	≥ 60dB	≥ 60dB
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)
Audio Distortion	≤ 5%	

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