AnyTone®
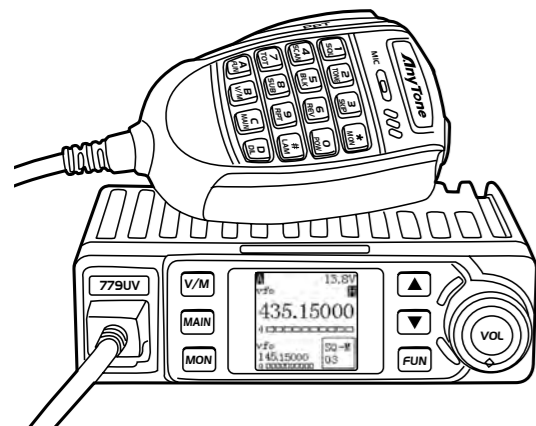
AT-779UV

Instruction Manual

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1. WARNING

FCC Warnings and Statements

IMPORTANT

Changes or modifications to this unit not expressly approved by Qixiang Electon Science & Technoloyg Co.,Ltd. could void your right to operate this unit. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings 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 minimum distance 71.372 cm between the radiator & body.

For a transmitter that can only be operated with an FCC license,warningss concerning compliance with applicable licensing requirements and information concerning license applianction 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 unlicensed use of GMRS channels, in viola-tion 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 FCC or go to the fccs website:
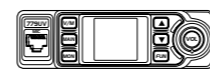
htt ://www.fcc. ov andre uestform 605.

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2. ACCESSORIES

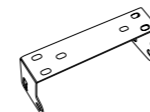### 2.1 Standard Accessories

Transceiver   Microphone   Mobile Bracket

Adjusting screws   non–slip mat   Fuse(10A 250V)
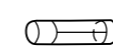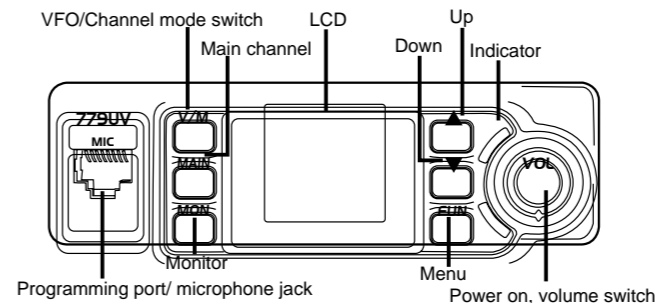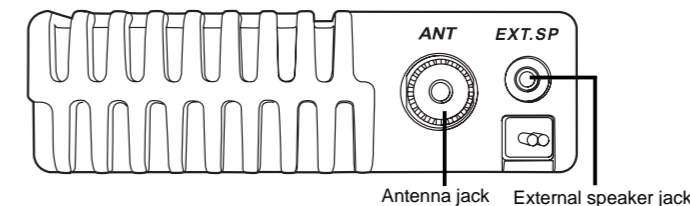
Screws   Pads   manual

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	--	

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3. GETTING ACQUAINTED

3.1 Front panel

VFO/Channel mode switch   LCD   Up
Main channel   Down   Indicator

Monitor
Programming port/ microphone jack   Menu   Power on, volume switch

3.2 Rear panel
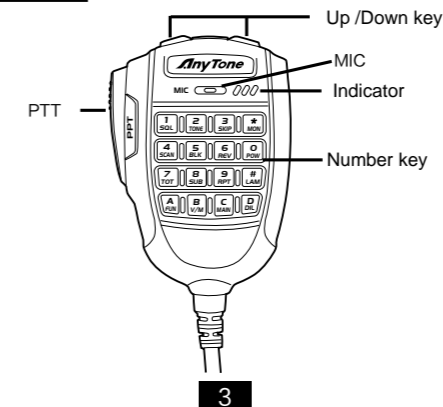
ANT   EXT.SP

Antenna jack   External speaker jack

Note: To get the best range from the external whip antenna(50)should be used. Ant:Tx GMRS, Rx:136-174&400-490Mhz, 0dBi . installation is height <3m.

3.3 Microphone

Up /Down key
MIC
Indicator
PTT
Number key

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4. BASIC OPERATIONS

4.1 Switching the Power On/Off

1. Turn the Volume knob clockwise to turn on the radio, the radio LCD will display programmed text and emit a beep sound .
2. Power Off: Turn volume knob anti-clockwise until hear "click"to turn off the radio.

4.2 Adjusting the Volume

Turn volume knob clockwise to increase colume and anti-clockwise to reduce it.

4.3 Switch between Main Channel and Sub Channel

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

4.4 Adjust Channel

1. Press microphone [M] key or front panel [V/M] key to switch the radio to channel mode, press microphone 【UP】/【DN】 key or front panel [▲]/[▼] key to choose channel .
2. In channel mode, input three numbers by number key to fast choose a channel.

4.5 Adjusting Frequency (Europe version only)

1. By number key: In VFO mode, you can input wanted frequency by the microphone number key. For example if want 145.125Mhz, just press key 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 VFO mode, press microphone 【UP】/【DN】 or front panel [▲]/[▼] key can change frequency by step size.
   Step size can be programmed by software from 2.5K to 50K.

4.5 Store channel

In standby states, press the microphpne [A] key , the top left corner will display Func , then press 【UP】 KEY , the LCD bottom left corner will display Save to XXX, now press 【UP】/【DN】key to choose a channel number, hold [*] 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 current channel is empty.

4.6 Channel Delete

1. In channel mode, press microphone [A] key, then press 【DN】 key, the LCD displays "Delete XXX" and frequency, presss 【UP】/【DN】key to choose the channel to delete, hold [# LAM]key delelte to current channel.

⚠ » "XXX" stands for the channel number, the LCD displays "Null" after chennel deleted

4. BASIC OPERATIONS

4.7 Receiving

Choose a receiving channel or frequency for receiving call, if the RX signal is week, hold front panel [MON] key or microphone [MON] key to monitor weak signal.

⚠ » *When the RX icon and field strength flashes, but can not hear the calling, it means current channel receive a matching carrier but unmatching signaling. Refer to CTCSS/ DCS CODE or Optional Signaling setup in Page 6).*

4.8 Transmitting

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

4.9 Emergency Alarm

In standby, hold [MAIN] key, release it until the LCD displays ALARM, the alarm function turns on. Program emergency alarm rule shall be programmed by PC software.

4.10 Keypad Lockout

In standby, hold [FUN] key or [A] key , the radio emit Du sound, the LCD displays LOCK. Now release the key , the keypad is locked. To turn of key lock, hold [FUN] key or [A] key until the radio emit Du Du, the LOCK icon disappear. now release the key.

4.11 Transmit Tone Pulse Frequency

Hold PTT and [DN] key will transmit selected Pre-programmed tone pulse frequency.

4.12 VFO Scan and Channel Scan

1. VFO scan: In VFO mode, press microphone [A] key or [SCAN] key to start VFO scan . if the radio has programm PL1, PH1, ,PL2, PH2, PH2 frequency(in the buttom of channel list), VFO scan will between PL1-PL2 and PL2-PH2.

2. Channel Scan: In channel mode press microphone [A] key and then press [SCAN] key to start channel scan. Channel scan setting shall be programmed by PC software.

4.13 FM radio

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

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4. SHORTCUT OPERATION

Press microphone [A] key and then press number key TO fast enter following functions, then press【UP】/【DN】key to choose value. presss【PTT】key or [D] key to Store.

Function list

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

⚠ » In DTMF check mode

When check DTMF code, press PTT will send current DTMF code.
To revise DTMF code, press [A] key and then press [0 POW] key to enter edit mode.
input DTMF code by number keys , then press PTT to transmit the code and store.

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5. FUNCTION SETTING

5.1 By Front Panel Key

1. Press [FUN] key to enter main menu.
2. Press [V/M] key or [MAIN] key to choose function.
3. Press [▲] / [▼] key to choose value.
4. Press [FUN] key or [MON] key to store and exit.

⚠ » When setting DCS code, [MON] key is for switch between positive and inverse code.

5.2 By Microphone Key

1. Press [A] key and then press [★ MON] key to enter menu.
2. Press [B CH] key or [C LOW] key to choose function.
3. Press【UP】/【DN】key to choose value.
4. Press [D] key to store and exit

⚠ » When setting DCS code, [1 SQL] key is for switch between Positive and inverse code.
[3] key is for choose 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

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5. 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?

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6. SPECIFICAITONS

GENERAL		
Frequency Range	Europe version: TX/RX: 144~146MHz , 430~440MHz	
	USA version: TX/RX: 467.55-467.725MHz TX/RX: 462.5625-462.725MHz RX: 136~174MHz , 400~490MHz	
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,20KHz,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)	124x101x36m	
Weight	0.45kg (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%	