

Package and Product Designed in U.S.A.

MADE IN CHINA

# AnyToneTech.com



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**AnyTone**<sup>®</sup>  
*tech*

**ANILE-8R**

**THE ANNIHILATOR**

**USER'S MANUAL**





# THANK YOU FOR TRUSTING US WITH YOUR RADIO NEEDS !

*AnyTone*<sup>tech</sup> transceivers provide you with reliable, clear, and precise communications. This transceiver includes innovative DSP (digital signal processing) technology - allowing for easy integration into all environments. We encourage you to read through the manual to understand the various functions to get the most from your handset.

The transceiver includes 16 programmable channels, CTCSS/DCS groups, user-defined CTCSS, and DTMF encode/decode, programmable shortcut keys, and many more features.

This radio is a meticulously built and a functional hand-held intended for every radio operator.

## MODELS APPLY TO THIS MANUAL

User Manual Applied to: ANILE-8R UHF FM Transceiver  
VHF FM Transceiver

Programming Software: ANILE-8R

## USB PROGRAMMING PRECAUTION

When programming the transceiver, first read from the radio, before modifying the frequencies data and settings. This will prevent errors caused from incompatible files.

## CAUTIONS

*AnyTone<sup>tech</sup>* transceivers are intelligently designed with advanced technologies. The following tips are required to prevent voiding warranty and understanding the safety of transceiver usage.

1. Keep the transceiver and all accessories away from children.
2. Do not try to open or modify the transceiver without permission. Irresponsible operation of the transceiver may also cause damage.
3. Use only *AnyTone<sup>tech</sup>* approved batteries and chargers.
4. Use the provided antenna for communication.
5. Avoid exposing the radio to excess heat (such as direct sunlight) for extended periods or storing your transceiver a hot location. High temperatures do shorten the life of electronic devices.
6. Do not store the radio in dusty, dirty, or damp areas.
7. Keep the radio dry. Do not wash radio with chemicals or detergents.
8. Do not transmit without the provided antenna.
9. When using this transceiver, we recommend transmitting for 1 minute then receiving for 1 minute. Continuous transmissions for a long time may over-heat the transceiver. If the transceiver is warm to the touch; do not set it by objects (such as plastic) that could melt.
10. If any abnormal smell or smoke comes from the transceiver, immediately shut off the power and remove the battery from the radio body. Then contact your local *AnyTone<sup>tech</sup>* dealer.

### ATTENTION:

The above tips apply to your *AnyTone<sup>tech</sup>* transceiver's accessories as well. If your accessories don't operate normally, please contact your local *AnyTone<sup>tech</sup>* dealer for assistance.

Use of third-party/ after-market accessories are not guaranteed by *AnyTone<sup>tech</sup>* and may void the warranty and/or safety of the transceiver.

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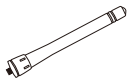
## ○ UNPACKING

Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packaging. If any items are missing or have been damaged during shipment, please contact your dealer immediately.

### ((( Supplied Accessories

| Item                | Number                                     | Quantity |
|---------------------|--|----------|
| Antenna             | QA06V(136-174MHz)<br>QA06U(400-480MHz) etc | 1        |
| Li-ion Battery Pack | QB-43L                                     | 1        |
| Battery Charger     | QBC-42L                                    | 1        |
| AC Adaptor          | QPS-01                                     | 1        |
| Belt Clip           | BC06                                       | 1        |
| Earpiece            | HS03                                       | 1        |
| Instruction Manual  |  | 1        |

((( Standard Accessories



Antenna\*1  
QA06V (136-174MHz)  
QA06U (400-480MHz) etc.



Li-ion Battery Pack  
(1300mAh)  
QB-43L



Charger  
QBC-42L



AC Adaptor  
QPS-01



Earpiece  
HS03



Belt Clip  
BC06



Instruction  
Manual



Qualification

**\* Note: For frequency of antenna, please refer to label indicated in the bottom of the antenna.**

((( Optional Accessories



USB Programming  
Cable PC03



Programming Software  
QPS318P\_1.00



Li-ion Battery Pack  
(1500mAh)



Battery Pack for Car  
Charger

## ◦ BATTERY INFORMATION

### (((Charging Operation

The battery is not charged at the factory, please charge it before your initial use.

Charging the battery for the first time or charging it after extended storage (more than 2 months) may not bring the battery to its maximum operating capacity after the first charge. It may take repeating a full charge/discharge cycle for two or three times before the operating capacity reaches its maximum performance. It is recommended that you replace the battery pack when the battery can no longer hold a charge (even when you have it fully and correctly charged). Properly dispose of the expired battery pack.

### (((Battery Charger Type

Please use our company's designated charger, after-market chargers could cause battery damage and in some cases could even explode the battery.

### (((Notice for Charging Battery

- ▼ Do not short-circuit the charger. Never attempt to remove the casing from the battery. Tampering or modifying the battery and charger is not allowed and we are not responsible for anything that occurs from modification.
- ▼ The ambient temperature should be between 40°F and 100°F during charging.
- ▼ Always switch off the transceiver equipped with a battery before charging. A transceiver left on, will interfere with correct charging.
- ▼ To avoid interfering the charging procedure, do not cut off the power or take out the battery during a charge.
- ▼ Do not recharge the battery if it is already fully charged. This could shorten the life of the battery or damage the battery.

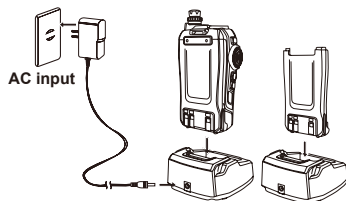
- ▼ Do not charge the battery or transceiver if it is damp or wet. Dry it before charging to avoid any danger.

### **WARNING:**

**When keys, ornamental chains, or other metals contact or short the battery terminals, the battery could cause a shock or injury. If the battery terminals are allowed to short circuit, they will generate a lot of heat. Be careful when you bring or use a spare battery. Put the battery or radio into an insulated container. Do not put them into metal containers.**

## ((( How to Charge





1. Plug the AC adapter into the AC outlet(100V-240V), then plug the cable of AC adapter into the DC jack, the indicator will light and alternate from RED and GREEN--- this means it is waiting to charge.
2. Slide the battery or transceiver with battery into the charger;make sure the battery terminals are securely in contact with the charging terminals. The LED turns into a solid (or flashing) RED---charging.
3. It takes about 4 hours to fully charge the battery.



**NOTE: When charging a powered on transceiver equipped with battery, the LED will not turn to green to show the full charge status. Only when you turn off the transceiver, will the LED indicate normally. If the transceiver is powered on, it will continually consume energy. The charger cannot detect when the battery has been fully charged and will fail to indicate correctly.**

## ◦ BATTERY INFORMATION

### 4. Charging Process:

| Status   | LED   |
|--|---|
| Standby (self-examine orange lights 1second when power on) |  Red and Green light Alternate         |
| Pre-charging (pre-charging stage)                          |  Red light flashes for about 5 minutes |
| Charging   |  RED light for about 5.5 hours         |
| Full charged (charge in constant voltage)                  |  Green light                           |

### 5. LED Indicator:

| STATUS | self-examine when power on | (No battery)                  | Pre-charging                    | Charge normally | Full Charged | Error                       |
|--------|----------------------------|-------------------------------|---------------------------------|-----------------|--------------|-----------------------------|
| LED    | Orange (for 1 second)      | Red and Green light Alternate | Red light flashes for 5 minutes | Red             | Green        | Red flashes for a long time |

**NOTE: An Error means the battery is too hot or cold, the battery has short-circuited, or the charger has short-circuited.**

## ((( Charging Prompts Explained

1. Self- examination: When plugging in your charger, the ORANGE light may flash for 1 second and go out. This means that the charger has passed its self-examination and it can charge the battery normally. If the light remains orange or the red light flashes this means the charger cannot pass its self-examination test and it will not charge the battery.

2. Trickle pre-charging: When the battery has been inserted into the charger and the RED light begins flashing, this means that the remaining voltage is very low. The charger will trickle charge the battery (pre-charging status), until the battery reaches a minimum charge. The charger will then automatically start the normal charging cycle. If the red light stops flashing immediately, this means that the remaining voltage is high enough to allow the charger to charge the battery normally.

### NOTE:

The time for Trickle pre-charging should not exceed 30 minutes. After 30 minutes, if the red indicator is still flashing, it means it is unable to charge battery. Check both the battery and charger for any issues.

### ((( How to Store the Battery

1. If the battery needs to be stored, the battery should be kept in the status of 50% discharge.
2. It should be kept in a cool and dry environment.
3. Keep away from hot places and direct sunlight.

### WARNING

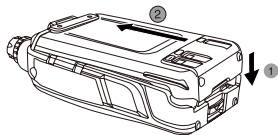
- ▼ Do not short circuit battery terminals.
- ▼ Never attempt to remove the casing from the battery pack.
- ▼ Never attach the battery to the radio in dangerous surroundings (such as areas with natural gas), there could be a spark that would cause explosion.
- ▼ Do not put the battery in a hot environment or throw it into fire.

## ◦ PREPARATION

### ((( Installing / Removing the Battery

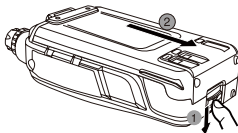
#### ■ Installing the Battery

1. Lay the battery to face the back of the radio.
2. Press the bottom of the battery, the latch in the bottom of the transceiver lock will release. After hearing a "click", the battery has been locked.



#### ■ Removing the Battery

According to “▼” on the battery release, push the battery lock release tab to remove the battery.



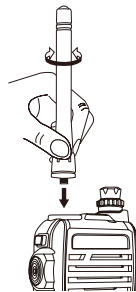
### ((( Installing / Removing the Antenna

#### ■ Installing the Antenna:

Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

#### ■ Removing the Antenna:

To remove it: Turn the antenna counterclockwise until the antenna has been removed from the threads of the transceiver.



### ((( Installing / Removing the Belt Clip

#### ■ Installing the Belt Clip:

Place the belt clip to the grooves on the back of the transceiver, and then install the screws, turning clockwise.

#### ■ Removing the Belt Clip:

Remove the screws turning counterclockwise, allowing you to remove the belt clip.





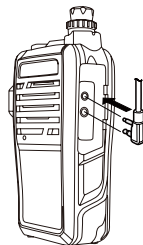
## ◦ PREPARATION

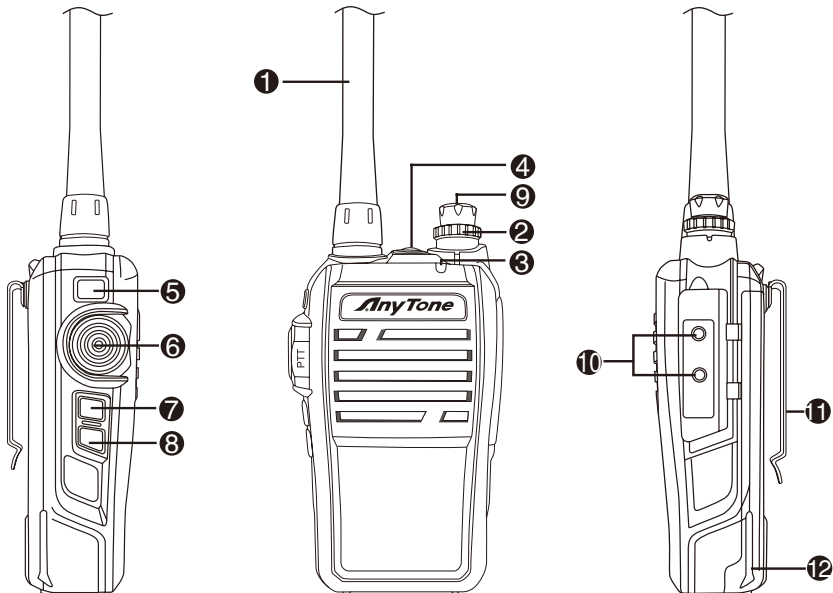
### ((( Installing the Additional Speaker/ Microphone (Optional)

Unveil the MIC-SP jack cover and then insert the Speaker/ Microphone plug into MIC-SP jack.

**Note:**

**The transceiver is not completely waterproof while using the Speaker/Microphone.**





## ◦ GETTING ACQUAINTED

### ❶ Antenna

### ❷ POWER / VOLUME Switch:

Rotate it clockwise to turn on the transceiver, rotate it counterclockwise until you hear the "click" to turn off the transceiver.

When the transceiver is powered on, turn the knob clockwise to increase volume, or turn the knob counterclockwise to reduce the volume.

### ❸ Indicator light

### ❹ Lamp (Flashlight)

### ❺ Lamp (Flashlight) Key

### ❻ PTT Key

Press PTT key to talk, release this key to receive.

### ❼ PF1 Key

Programmable by software

### ❽ PF2 Key

Programmable by software

### ❾ Channel Selector Knob

Turn the knob to select desired channel. Turn the knob clockwise to increase the channel selected, or turn the knob counterclockwise to decrease the channel selected.

### ❿ Speaker/Microphone jack, programming software jack

### ⓫ Belt Clip

### ⓬ Battery Lock

## ((( Indicator Status and Beep Meanings

|                           |  |
|---------------------------|--|
| Warning on low voltage    | The red light flashes, and the transceiver emits a low voltage beep at intervals of 30 seconds.  |
| Transmitting              | The indicator will light red   |
| Receiving                 | The indicator will light green   |
| Reading/Writing Frequency | Reading Frequency: Red light flashes<br>Writing Frequency: Green light flashes   |
| Key Operation             | Responsive single beep when a function key is pressed, Responsive double beep when a function is turned on (such as Squelch Off).<br>Responsive triple beep when a functions is turned off (such as Squelch On). |

## ((( [PF1] & [PF2] Key Default

|                          |                          |
|--------------------------|--------------------------|
| Press [PF1]              | Battery Capacity Enquiry |
| Press [PF2]              | Squelch off              |
| Press [PF1] 1 second     | Monitor                  |
| Press [PF2] 1 second     | Power Switch             |
| Press [PF1] 3 seconds    | On/Off VOX Function      |
| Press LAMP key           | Turn on/off flashlight   |
| Press LAMP key 3 seconds | Emergency alarm function |

## ◦ AUXILIARY FUNCTIONS

**Users can setup the key [PF1] and [PF2] to be one of the optional functions below:**

- Squelch off
- Monitor
- Current Channel Power Enquiry
- Scan
- Frequency Reverse
- Talk Around
- Battery Capacity Enquiry
- Call 1
- Call 2
- TX Power Switch
- TBST

For more information regarding the programming of the PF1 and PF2 functions, please refer to the "Advanced Operation" section.

### ⏪ Turn the Radio On & OFF

When the radio is off, turn the **[POWER]/[VOLUME]** knob clockwise to turn on the transceiver. The transceiver will play a prompt tone, with voice feedback. It will audibly tell you what channel you are on once it has fully powered on.

**To turn the radio off:** When the radio is on, turn the **[POWER]/[VOLUME]** knob counterclockwise until you hear a "Click".

### ⏪ Adjusting Volume

When the radio is on, turn the **[POWER] / [VOLUME]** knob to adjust the volume. The volume increases when you turn the knob clockwise and decreases when you turn the knob counterclockwise.

**NOTE: Press the key programmed as "Squelch Off" to bypass the squelch. You can turn the [POWER]/[VOLUME] knob to control the volume. For best results the volume may need to be adjusted during a live received transmission.**

### ⏪ Channel Selection

Turn channel selector knob to choose the desired channel, and the transceiver will announce the current selected channel. Turn the knob clockwise to increase the channel number selected, counterclockwise to decrease the channel number selected.

**NOTE: The transceiver will emit a voice prompt when current channel is blank.**

## ◦ BASIC OPERATIONS

### ((( Receiving

When your transceiver receives a transmission, the LED light will light up.

**NOTE: You may not receive the call if your transceiver is set at a high squelch level. If the current channel is programmed with a mandatory decode (RX) tone (CTCSS, DCS, etc), the selected tone also must be present for the call to be heard.**

### ((( Transmitting

Before transmitting, make sure that the channel you want to use is not currently in use (by someone that may be on a different "Tone" setup). Monitor the channel with the squelch off (according to how you have the function keys setup). Once confirmed press the [PTT] key and talk into the microphone. Keep the distance between your mouth and the microphone about 1-2 inches. Speak in your normal voice (don't whisper and don't yell into the mic) for the best audio clarity.

**NOTE: When pressing and holding the PTT key, the radio will transmit (and will be indicated by the red LED light). Release the [PTT] key to receive calls.**

### ((( Turn on/off Flashlight

When in standby, press Lamp (Flashlight) Key and transceiver will emit a beep and turn on the flashlight, Repeat the procedure above to turn off the flashlight.

### ((( Emergency Alarm

When in standby, press and hold LAMP key for 3 seconds, the transceiver will turn on the emergency alarm. Power off the transceiver to exit the alarm.

### ((( Squelch Off

Press the programmed key of 'Squelch off' [PF1]/[PF2], which will bypass the squelch. You will hear any noise on the frequency. By pressing this key again, the squelch level will be enabled again. By using this function you could monitor a weaker signal that might be too hard to normally be received (or break through the squelch).

### ((( Monitor

Press the programmed key of 'Monitor' [PF1]/[PF2], the transceiver will respond with a beep that confirms you have enabled the 'monitor' function. When activated, your transceiver will ignore the pre-programmed CTCSS/DCS decode requirements and will monitor all the frequency activity as long as it has matched the carrier wave (frequency). Press the programmed key again and the transceiver will respond with a beep that confirms you have disabled the 'monitor' function.

### ((( Current Channel Power Enquiry

Press the programmed key of 'Current Channel Power Enquiry' [PF1]/[PF2], the transceiver will announce the current channel transmitting power level (either High or Low).

### ((( Scan

Press the programmed key of 'Scan' [PF1]/[PF2], the transceiver will respond with a beep that confirms you have enabled the 'scan' function. It scans channels in your scan list one by one, and the Green light flashes once per second. When a channel receives a signal, the green light will stay lit and the transceiver temporarily stays on the channel until the signal disappears. Press the



## ◦ **ADVANCED OPERATIONS**

programmed key again and the transceiver will respond with a beep that confirms you have disabled the 'scan' function and will return to the previous channel before scanning was activated. Please refer to the other scanning options in the 'advanced operations' to understand additional 'scan' options.

### ((( **Frequency Reverse**

Press the programmed key of 'Frequency Reverse' [PF1]/[PF2], the transceiver will respond with a beep that confirms you have enabled the 'frequency reverse' function. Once enabled the current channel RX and TX frequency will swap along with the CTCSS or DCS signal setup. Press the programmed key again and the transceiver will respond with a beep that confirms you have disabled the 'frequency reverse' function.

### ((( **Talk Around**

Press the programmed key of 'Talk Around' [PF1]/[PF2], the transceiver will respond with a beep that confirms you have enabled the 'Talk Around' function. Once enabled the current channel will transmit on the same RX frequency, if the CTCSS/DCS signaling is set, it will set the encoding to be the same as the CTCSS/DCS decoding. Press the programmed key again and the transceiver will respond with a beep that confirms you have disabled the 'Talk Around' function.

**NOTE: When 'talk around' is enabled, the transceiver will not communicate with other transceivers through a repeater – it now only communicates from handset to handset.**

### ((( **Battery Capacity Enquiry**

Press the programmed key of 'Battery Capacity Enquiry' [PF1]/[PF2], the transceiver will announce the current battery capacity. There are 10 power levels with "10" meaning that the battery capacity is

full. When the battery level is "1" (6.1V), the LED will light red. The transceiver will voice prompt users to charge the battery soon and will automatically disable TX.

### (((Power Switch

Press the programmed key of 'Power Switch' [PF1]/[PF2], the transceiver will change the current channel power and announce the new power setting.

### (((Call 1/Call 2

Press the programmed key of "Call 1/Call 2" [PF1]/[PF2] to transmit the pre-stored selected DTMF signaling.

### (((Tone Pulse Frequency Selection

Press the programmed key of "TBST" [PF1]/[PF2], the transceiver will transmit the preset Tone pulse frequency for 3 seconds. You can set the Tone pulse frequency to be one of 4 (1750HZ, 2100HZ, 1450HZ, or 1000HZ)

### (((ON/OFF VOX

Press the programmed key of "VOX" [PF1]/[PF2], the transceiver will enable VOX and audibly confirm that the VOX is turned on (only if you have allowed the function through the programming software). When this function is enabled, the transmitting can be started by your voice (generally used with an earpiece). When it is enabled there is no need to press the [PTT] key. Press the programmed key again and the transceiver will respond audibly and confirm that have disabled the 'VOX' function.

**NOTE: You need to first program the VOX function to be enabled (by your programming software); otherwise, the above operation is invalid.**

## ◦ **ADVANCED OPERATIONS**

### ((( **CTCSS / DCS Encode and Decode**

When you set up the transceiver with CTCSS and DCS tones:

**CTCSS/ DCS Encode:** Will transmit your selected CTCSS or DCS tone

**CTCSS/ DCS Decode:** Will receive a transmission only if it carries your selected CTCSS or DCS tone.

### ((( **Optional Signaling (DTMF)**

Users can enable or disable the “Optional Signaling” in each channel by programming software. DTMF tones are similar to CTCSS/DCS tones and can be used in conjunction with them. You can set the squelch level to require DTMF and/or CTCSS/DCS. DTMF tones can also allow for Selective Calling, Group Calling, All Call, PTT ID, Remote Stun, Remote Kill and Remote Waking.

1. PTT ID (ANI): If you set your current channel to transmit your PTT ID, the transceiver will send its transmitting ID by pressing or releasing the PTT key according to how you set it up.
2. If you decide to assign radios to groups with DTMF tones - You can set a group call “wildcard” for each group by programming software. (DTMF character A, B, C, D, “\*” or “#”).

A.The caller can call different groups by sending different group call codes. When the receiving party receives a valid ID code, wildcard characters can replace one or all of the characters and the receiving party can: call all, group call, or selectively call. It is easy and flexible to utilize DTMF tones

**For example:**

**Group code: "C"**

|                | <b>Radio A</b> | <b>Radio B</b> | <b>Radio C</b> | <b>Radio D</b> |
|----------------|----------------|----------------|----------------|----------------|
| <b>ID Code</b> | 123            | 223            | 235            | 355            |

If the calling party uses "C23" to call, Radio A and Radio B will receive the call.

If the calling party uses "CC5" to call, Radio C and Radio D will receive the call.

If the calling party uses "CCC" to call, All Radios will receive the call.

3. This transceiver is set with 16 groups of DTMF codes (you can set what Call 1 and Call 2 use for each channel)
4. Remote Stun, Remote Kill and Remote Waking.
  - A. Remote Stun: When the radio receives the DTMF that will "Remote Stun" it – it can no longer transmit and will receive only.
  - B. Remote Kill: When the radio receives the DTMF that will "Remote Kill" it – it can no longer transmit or receive.
  - C. Remote Waking: The only way to bring a radio out of 'Remote Kill' or 'Remote Stun' is by special dealer programming software --- or you can wake it by sending the 'Remote Wake' DTMF tone. The 'Remote Wake' DTMF tone is activated by: sending the original DTMF 'Kill/Stun' Code + the '#' Tone.

**NOTE: Radios must be set up to 'Decode' optional signaling (DTMF), otherwise they will ignore the DTMF tones being received.**

### ((( Signaling Relations Setup

User can set relations between CTCSS/DCS signal and DTMF signal by programming software. The relationship can be:

**AND:** Only when a matching CTCSS/DCS signal and a DTMF signal are received, will the calling of

## ◦ **ADVANCED OPERATIONS**

the party be heard.

**OR:** As long as a matching CTCSS/DCS signal or a DTMF signal is received, calling of the other party can be heard.

### ((( **Wide / Narrow Band Setup**

According to the laws of various countries on frequency spectrum, you can set communication for (25k) wide band or (12.5k) narrow band.

### ((( **Adding to Scan List**

Via programming software, users can choose whether add current channel into scan list or not. If the current channel is not in the scan list, the transceiver will skip this channel during scanning.

### ((( **Busy Channel Lockout**

BCLO function is used to prohibit transmitting on a busy channel; it can prevent disturbing other transceivers operating on the same frequency. If you press PTT, the radio will beep as a warning and go back to receiving only.

Users can set Busy Channel Lockout mode by programming software:

**CARRIER:** Carrier wave lock, transmitting is prohibited when received matching frequency and tone wave.

**REPEATER:** Signal lock, transmitting is prohibited when received matching carrier (frequency) (CTCSS and DCS tones are ignored in this setting).

**OFF:** No BCLO function.

### ((( Time-out Timer

The purpose of Time-out-Timer is to restrict the transceiver from accidental long-term transmissions. If the transmission time goes beyond the preset time limit, the transceiver will stop transmitting and warn the user and make a beep sound.

Users can set TOT timer by programming software.

### ((( Time-Out Timer Pre-Alarm

The Time-Out Timer Pre-Alarm is to warn users that they are about to time-out (as described above).

Users can program their desired TOT Pre-Alarm time by programming software.

### ((( Voice Prompt

Voice prompts identify the radio input operation, inform the user of operator error, or a fault condition. You can set the voice to be Chinese or English. Users can program their desired voice prompts by programming software.

### ((( Battery Save Setup

You can set a battery save ratio according to your requirements. The standby time can be extended if you enable the battery save function, but if you set the ratio setting too high, it may cause you to miss the beginning of a transmission. When the transceiver receives a matching signal or starts an operation it will automatically exit this function.

There are three modes you can enable by software:

1:4 The standby time between the normal working state and battery saving mode is 1:4

1:8 The standby time between the normal working state and battery saving mode is 1:8

1:16 The standby time between the normal working state and battery saving mode is 1:16

### ((( Priority Scan Setup

There are two priority-channel settings that you can set the transceiver to have: "fixed" or "selected". A "fixed" priority channel is one main channel selected by software. A "selected" priority channel is the current channel selected by the channel knob.

If a transmission is received on a channel and the radio stops to listen to the transmission it will 'look back' to the priority channel set (priority or selected) on the time limit selected by software

**Look Back Time A(s):** This is the time you set before checking back on the priority channel if the priority channel just received a transmission (with matching signaling and carrier).

**Look Back Time B(s):** This is the time you set before checking back on the priority channel if the priority channel has not received a transmission since the last scanning pass (no matching signal).

### **Scanning Resume Options (RX/TX):**

**Time to Resume Scanning After RX (Dropout Delay Time):** The interval between the time that receiving a transmission is finished before the transceiver automatically resumes scanning.

**Time to Resume Scanning After TX (TX Dwell Time):** The interval between the time that transmitting a transmission is finished before the transceiver automatically resumes scanning.

### ((( Push-to-Talk Operation During Scan:

During Scan you can select how the Push-to-Talk Button Functions, in the software there are four options:

**Selected:** The Push-to-Talk Button will default to the channel knob selected channel (to communicate on a different channel you select the channel by knob)

**Selected + Talk Back:** The Push-to-Talk Button will default to the channel knob selected channel unless you press the PTT following receiving a transmission found during scanning (before scanning resumes) If you intend to communicate quickly with those during scanning – this is the preferred option. If the PTT is pressed when the radio has resumed scanning it will default to the channel knob selected channel.

**Priority:** The Push-to-Talk Button will default to the software selected priority channel (to communicate on a different channel you select the channel by knob)

**Priority + Talk Back:** The Push-to-Talk Button will default to the software selected priority channel unless you press the PTT following receiving a transmission found during scanning (before scanning resumes) If you intend to communicate quickly with those during scanning – this is the preferred option. If the PTT is pressed when the radio has resumed scanning it will default to the the software selected priority channel.

### (((Expand Frequency

Users can set the expand frequency via programming software, the range of the expanded frequency is 400~520MHz.

### (((Eliminating Tail without signaling

When your transceiver does not have a CTCSS/DCS, you can choose this option to eliminate the tail sound on the transmission.

**NOTE: Both the receiver and transmitter must have this function enabled in order to eliminate the “tail sound” on the transmission.**



## ◦ **ADVANCED OPERATIONS**

### ((( **Resume Factory Default**

If your transceiver begins acting abnormally, you can set all functions and channels back to the 'Factory Default'. When the radio is off, press the [PTT] and [PF1] key at the same time as you are switching on your transceiver. Hold the two keys until you hear the initial beep of it powering on – then release the two keys, the transceiver will resume the factory default settings.

### ((( **Maintaining and Cleaning**

After a period of use: your transceiver, keys, buttons and housing may become dirty. If you decide to clean your transceiver remove the battery, and use just a wet cloth to clean – do not use corrosive detergents or chemicals as it may void the warranty.

## PROGRAMMING SOFTWARE STARTING (USES THE WINDOWS OPERATING SYSTEM)



1. Double Click "ANILE-8R setup.exe", then follow through with the installation.
2. Please plug the programming cable into the USB port of the PC device, and then connect it to the transceiver. (A Genuine FTDI cable from AnyTone Tech is recommended)
3. Double click "ANILE-8R" shortcut icon, or click the ANILE-8R item in the "START" menu to open the programming software interface.
4. Choose your "COM Port" and then click "OK" to start programming software (the COM Port number can be found under device manager, it will display by the cable driver).

**Note: When moving the programming cable to a different USB port, the COM port assignment will change.**

Before programming, insure that your transceiver is powered on. Do not turn on or turn off the transceiver when it is connecting with the computer, otherwise it may cause the transceiver to not properly read or write data. If this situation has happened, please shut down the programming software, remove the programming cable from the computer, and then re-plug the cable into the computer, re-start the programming software, re-choose the COM Port, and the programming should work normally.

**NOTE: The programming software has an automatic product identifying system. In order to run it for the first time the transceiver should be connected to computer, otherwise the software can not run.**

## TECHNICAL SPECIFICATIONS

| General               |   |
|-----------------------|---|
| Frequency Range       | VHF:136~174MHz<br>UHF: 400~520MHz                     |
| Channel Capacity      | 16 channels   |
| Channel Spacing       | 25KHz (Wide Band)<br>12.5KHz (Narrow Band)            |
| Phase-locked Step     | 5KHz, 6.25KHz   |
| Operating Voltage     | 7.4V DC   |
| Battery Life          | More than 12 Hours (1300mAh),<br>by 5-5-90 work cycle |
| Frequency Stability   | ±2.5ppm   |
| Operating Temperature | -20℃~ +55℃  |
| Size                  | 127×60×35mm (with battery pack)                       |
| Weight                | 219 g (with battery pack, antenna)                    |

| Receiving Part          |           |             |
|-------------------------|-----------|-------------|
|                         | Wide band | Narrow band |
| Sensitivity(12dB SINAD) | ≤0.25μV   | ≤0.3μV      |

|                              |                  |                  |
|------------------------------|------------------|------------------|
| Adjacent Channel Selectivity | ≥60dB            | ≥60dB            |
| Intermodulation              | ≥60dB            | ≥60dB            |
| Spurious Rejection           | ≥80dB            | ≥80dB            |
| Audio Response               | 6dB/per interval | 6dB/per interval |
| Hum & Noise                  | ≥50dB            | ≥45dB            |
| Audio Distortion             | ≤5%              |                  |
| Audio Power Output           | 1000mW/10%       |                  |

| Transmitting Part      |                  |                  |
|------------------------|------------------|------------------|
|                        | Wide band        | Narrow band      |
| Power Output           | 5W/1W            |                  |
| Modulation             | 16KΦF3E          | 11KΦF3E          |
| Adjacent Channel Power | ≥60dB            | ≥60dB            |
| Hum & Noise            | ≥45dB            | ≥40dB            |
| Spurious Emission      | ≤-36dB           | ≤-36dB           |
| Audio Response         | 6dB/per interval | 6dB/per interval |
| Audio Distortion       | ≤5%              |                  |

| Problem   | Corrective Action   |
|---|---|
| No power  | A.The battery may be depleted. Recharge or replace the battery.<br>B.The battery may not be installed correctly. Remove the battery and install it again.<br>C.The power switch is broken; Contact local dealer for repair.<br>D.Battery tabs or the connection is broken; Contact local dealer for repair. |
| Battery power dies shortly after charging.                | The battery life is finished. Replace the battery pack with a new one.  |
| Transceiver cannot scan                                   | The channels are not in scan list.  |
| All bands pick up static and are noisy                    | Adjust the squelch settings during programming. Non-professionals are advised not to adjust this function.  |
| No sound after removing earphone                          | Contact local dealer for repair.  |
| Communication distance becomes short, and Low sensitivity | A.Check whether the antenna is making good contact and the antenna base and has not come loose.<br>B. Antenna connector is broken. (this can happen if you carry the radio by the antenna) (Contact local dealer for repair)  |
| Cannot talk or hear other members in your group           | A.Different frequency or channel, please change it.<br>B.Different CTCSS / DCS /DTMF, please reset it.<br>C.Out of communication range.   |

## ◦ TROUBLE SHOOTING GUIDE

|   |   |
|---|---|
| Can not power on or frequent power off                  | Check if the battery is making good contact and is locked in place.   |
| The transmitting audio gets low or intermittent         | Check if the MIC hole is plugged. If you cannot diagnose the issue –contact local dealer for repair.  |
| Receiving is intermittent with too much noise           | A. Out of communication range or obstructed by tall buildings.<br>B. The 450 filter is broken, Contact local dealer for repair.   |
| Loudspeaker is quieter or has crackling sound           | Check whether the loudspeaker is broken, or if there is powder or dust in the loudspeaker. Contact local dealer for repair.   |
| Receive voice from the other party but can not transmit | Check [PTT] key.  |
| Receiving indicator with green light but no sound       | A. Low volume, please turn the VOLUME knob clockwise.<br>B. Loudspeaker is broken, Contact local dealer for repair.<br>C. Earphone jack is broken, Contact local dealer for repair<br>D. Volume switch is broken. |

((( CTCSS Frequency Chart

|    |      |    |       |    |       |    |       |    |       |
|----|------|----|-------|----|-------|----|-------|----|-------|
| 1  | 67.0 | 12 | 97.4  | 23 | 141.3 | 34 | 179.9 | 45 | 225.7 |
| 2  | 69.3 | 13 | 100.0 | 24 | 146.2 | 35 | 183.5 | 46 | 229.1 |
| 3  | 71.9 | 14 | 103.5 | 25 | 151.4 | 36 | 186.2 | 47 | 233.6 |
| 4  | 74.4 | 15 | 107.2 | 26 | 156.7 | 37 | 189.9 | 48 | 241.8 |
| 5  | 77.0 | 16 | 110.9 | 27 | 159.8 | 38 | 192.8 | 49 | 250.3 |
| 6  | 79.7 | 17 | 114.8 | 28 | 162.2 | 39 | 196.6 | 50 | 254.1 |
| 7  | 82.5 | 18 | 118.8 | 29 | 165.5 | 40 | 199.5 |    |       |
| 8  | 85.4 | 19 | 123.0 | 30 | 167.9 | 41 | 203.5 |    |       |
| 9  | 88.5 | 20 | 127.3 | 31 | 171.3 | 42 | 206.5 |    |       |
| 10 | 91.5 | 21 | 131.8 | 32 | 173.8 | 43 | 210.7 |    |       |
| 11 | 94.8 | 22 | 136.5 | 33 | 177.3 | 44 | 218.1 |    |       |

## ATTACHED CHART

### DCS Chart

|    |            |    |            |    |            |    |            |    |            |     |            |     |            |
|----|------------|----|------------|----|------------|----|------------|----|------------|-----|------------|-----|------------|
| 1  | 017        | 18 | 073        | 35 | 165        | 52 | 261        | 69 | 356        | 86  | 464        | 103 | 632        |
| 2  | 023        | 19 | 074        | 36 | 172        | 53 | 263        | 70 | 364        | 87  | 465        | 104 | 645        |
| 3  | 025        | 20 | 114        | 37 | 174        | 54 | 265        | 71 | 365        | 88  | 466        | 105 | 654        |
| 4  | 026        | 21 | 115        | 38 | 205        | 55 | 266        | 72 | 371        | 89  | 503        | 106 | 662        |
| 5  | 031        | 22 | 116        | 39 | 212        | 56 | 271        | 73 | 411        | 90  | 506        | 107 | 664        |
| 6  | 032        | 23 | 122        | 40 | <b>217</b> | 57 | 274        | 74 | 412        | 91  | 516        | 108 | 703        |
| 7  | 036        | 24 | 125        | 41 | 223        | 58 | <b>305</b> | 75 | 413        | 92  | 523        | 109 | 712        |
| 8  | 043        | 25 | 131        | 42 | 225        | 59 | 306        | 76 | 423        | 93  | 526        | 110 | 723        |
| 9  | 047        | 26 | 132        | 43 | 226        | 60 | 311        | 77 | <b>425</b> | 94  | 532        | 111 | 731        |
| 10 | 050        | 27 | 134        | 44 | 243        | 61 | 315        | 78 | 431        | 95  | <b>534</b> | 112 | 732        |
| 11 | 051        | 28 | <b>135</b> | 45 | 244        | 62 | 325        | 79 | 432        | 96  | 546        | 113 | 734        |
| 12 | 053        | 29 | 143        | 46 | 245        | 63 | 331        | 80 | 445        | 97  | 565        | 114 | 743        |
| 13 | 054        | 30 | 145        | 47 | 246        | 64 | 332        | 81 | 446        | 98  | 606        | 115 | 754        |
| 14 | <b>055</b> | 31 | 152        | 48 | 251        | 65 | 343        | 82 | 452        | 99  | 612        | 116 | <b>765</b> |
| 15 | 065        | 32 | 155        | 49 | 252        | 66 | <b>345</b> | 83 | 454        | 100 | 624        |     |            |
| 16 | 071        | 33 | 156        | 50 | <b>254</b> | 67 | 346        | 84 | 455        | 101 | 627        |     |            |
| 17 | 072        | 34 | 162        | 51 | 255        | 68 | 351        | 85 | 462        | 102 | 631        |     |            |

**NOTE:** 1. "N" stands for positive code. "I" stands for inverted code. 232 groups of DCS in total.

2. Overstriking marks are non-standard DCS.

## (((Usage of Your Transceiver on Part 90 (Commercial) and Part 97 (Amateur) Frequencies

1. Changes or modifications to this device not expressly approved by ANYTONE could void the user's authorization to operate this device.
2. This device complies with part 90 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 including received, interference that may cause undesired operation.

Changes or modifications to this device not expressly approved by ANYTONE could void the user's authorization to operate this device.





## ◦ LIMITED WARRANTY (UNITED STATES)

**You MUST file your warranty information online at: [AnyToneTech.com](http://AnyToneTech.com) within 45 days of purchase.**

*AnyTone*<sub>tech</sub> will repair or replace, at its option without charge, subject to the exclusions set forth below, any *AnyTone*<sub>tech</sub> Two-Way -Radio transceiver which fails due to a defect in material or workmanship within ONE year following the initial consumer purchase.

This warranty does not apply to water damage, battery leak or misuse, use of unauthorized accessories, unauthorized service or modification or altered products. Accessories have a 90 day warranty from date of purchase, including antennas, batteries, chargers, and earphones.

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED AS SET FORTH HEREIN AND TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR OR REPLACEMENT AS AND IS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL *AnyTone*<sub>tech</sub> BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE, BODILY INJURY, PROPERTY DAMAGE AND DEATH) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR ACCESSORY, OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS OR ACCESSORIES TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

*AnyToneTech* specializes in communication equipment, but even more important than communication with others - is your communication with God.

To become a Christian and receive salvation is the greatest step you can take with God. To be real it must be a personal commitment from the heart. Here are three steps to eternal salvation.

1. Admit you are a sinner. "All have sinned and come short of the glory of God" (Roman 3:23).
2. Receive Jesus Christ as Savior. "But as many as received him, to them gave he power to become the sons of God" (John 1:12).
3. Confess your faith. "That if thou shalt confess with thy mouth the Lord Jesus, and shalt believe in thine heart that God hath raised him from the dead, thou shalt be saved." (Romans 10:9).

To believe on Jesus Christ as Savior means to believe that He died for you, believe that He paid the price for your sin, and believe that He is the only way to Heaven. You can express your belief on Jesus by calling on Him in prayer.

Trusting God as your savior is the most important item we promote at *AnyToneTech*. We would like to help you learn more if you have accepted Christ as your personal Savior - contact us today at: [AnyToneTech.com](http://AnyToneTech.com) to let us know and we will send you a one time package of literature.