Nice Housing, Stoutness & Stability, Advanced and Reliable functions, Perfect & Valuable. FCC CE RoHS Approval. Dual Band mobile radio especially designs for drivers and it pursues company philosophy of innovation and practicality.

NOTE

When programming the transceiver, read the factory initial data firstly, then rewrite the frequency and signaling etc., otherwise errors may occur because of different frequency band etc..

Dual Band Mobile Radio Applicable Software: QPS5888UV_S1
Model Apply To This Manual: Dual Band Mobile Radio

www.at-5888uv.com
Thank you for choosing this **AnyTone** mobile transceiver, **AnyTone** always provide high quality products, and this transceiver is no exception. The transceiver is a ruggedly-built, high quality Dual band FM transceiver providing 50 Watts of power output on the VHF band and 40 Watts on the UHF band. It owns many advanced characters like cross band repeat function, built with a direct-flow heat sink and thermostatically-controlled cooling fan maintaining a safe temperature for the transceiver’s circuit.

Dual band mobile radio has four independent receiving bands, consist of UU, UV, VU, VV for dual receive and dual output, plus receiving for AM/FM signal of air band, marine band, PMR, etc.also able to receive FM/TV radio and analogue TV signal. It owns 758 memory channels, full duplex operation with independent volume and squelch controls, compander and built-in CTCSS/DCS, DTMF, 5TONE, 2TONE signaling, detachable front panel for flexible installation.

Though friendly design for user, this transceiver is technically complicated and some features may be new to you. Consider this manual to be a personal tutorial from the designers, allow the manual to guide you through the learning process now, then act as a reference in the coming years.

### Precautions

Please observe the following precautions to prevent fire, personal injury, or transceiver damage:

⚠️ **Do not attempt to configure your transceiver while driving,** it is dangerous.

⚠️ **This transceiver is designed for a 13.8V DC power supply.** Don't use a 24V battery to power on the transceiver.

⚠️ **Do not place the transceiver in excessively dusty, humid or wet areas,** nor unstable surfaces.

⚠️ **Please keep it away from interferential devices (such as TV, generator etc.)**

⚠️ **Do not expose the transceiver to long periods of direct sunlight,** nor place it close to heating appliances.

⚠️ If an abnormal odor or smoke is detected coming from the transceiver, turn OFF the power immediately. Contact an Anytone service station or your dealer.

⚠️ **Do not transmit with high output power for extended periods;** the transceiver may overheat.

www.at-5888uv.com
CONTENTS

New and Innovative Features ...................................................1
  Frequency Range ...................................................................1
Supplied Accessories/Optional Accessories ..........................2
  Supplied Accessories ..............................................................2
  Optional Accessories ..............................................................2
Initial Installation ........................................................................3
  Mobile installation ...................................................................3
  DC Power Cable Connection ..................................................4
  Antenna Connection ...............................................................6
  Accessories Connections ........................................................7
Getting Acquainted .....................................................................8
  Front panel..............................................................................8
  Rear panel ..............................................................................9
  DISPLAY .................................................................................9
  microphone ...........................................................................10
Basic Operations ......................................................................11
  Switching The Power On/Off .................................................11
  Adjusting The Volume ..........................................................11
  Switch between VFO and Channel mode .............................11
  Adjusting Frequency .............................................................11
  Adjusting Channel .................................................................11
  Switch Between Main Band and Sub band ...........................12
  Selecting the frequency band ...............................................12
  Receiving ..............................................................................12
  Squelch Off/Squelch Off Momentary.....................................12
  Transmitting ..........................................................................12
Shortcut Operations ................................................................13
  Squelch level Setup ..............................................................13
  Transmit DTMF/2TONE/5TONE signaling ...............................13
High/Mid/Low Power Switch .........................................................13
  Frequency Reverse ................................................................13
  Band-width Selection ..........................................................13
  Home Channel .................................................................13
  Hyper Memory channel .........................................................13
  Dual Watch ..........................................................................14
  Emergency Alarm ..................................................................14
  Channel/Frequency Scan .....................................................14
  Channel Scan Skip ...............................................................14
  Channel Edit ..........................................................................14
  Scan range Limit ....................................................................14
  Channel Copy .........................................................................14
  Channel Delete ......................................................................15
General Setting ......................................................................16
  APO (Automatic Power off) ...................................................16
  Automatic offset ....................................................................16
  Frequency Channel Step Setup ............................................16
  VFO Band lockout .................................................................17
  Beep Function .......................................................................17
  CPU Clock frequency Change ..............................................17
  2TONE Encode select ..........................................................17
  5TONE Encode select ..........................................................18
  Add Optional signaling ..........................................................18
  CTCSS encode Setup ..........................................................18
  CTCSS decode Setup ...........................................................19
  Sub Band Display Setup ........................................................19
  DTMF Encode Pre-Loading time ..........................................19
  DTMF Encode Transmitting Time ...........................................20
  DTMF Encode setup .............................................................20
CONTENTS

Squelch Mode Setup .............................................................20
Comander ...........................................................................21
Scrambler Setup ...................................................................21
Tone Burst (Pilot Frequency) ................................................21
Keypad Mode Setup .............................................................22
Keypad Lockout ...................................................................23
TX OFF (PTT Lockout) .........................................................23
Squelch Level setup ..............................................................23
Frequency Reverse...............................................................23
Sub band mute setup ............................................................24
Editing Channel Name ..........................................................24
Channel Function Auto storageage Setup .........................24
Microphone PA,PB, PC,PD key setup ..................................25
RF Squelch level setup .........................................................25
OFFSET Direction setup .......................................................25
Scan Dwell Time Setup .........................................................25
Priority channel scan ...........................................................26
Offset frequency Setup .........................................................26
Display mode Setup ..............................................................26
Busy Channel Lockout ...........................................................27
Radio’s DTMF SELF ID ENQUIRY ...........................................27
5TONE SELF ID ENQUIR ......................................................27
TOT (Time-out timer) ...........................................................27
VFO Frequency Linkage .........................................................28
Wide/Narrow band ..............................................................28
Cross Band repeat ...............................................................28
LCD backlight ....................................................................28
Keypad backlight brightness .................................................29
Calling Record ....................................................................29

AM Function ......................................................................29
Automatic AM function .......................................................29
VHF External speaker port ....................................................30
BEEP Volume control ...........................................................30
Talk Around ........................................................................30
Microphone speaker ...........................................................30
Password Function ...............................................................30

Microphone Operation ........................................................31
Send DTMF signaling ............................................................31
Main/Sub band switching ......................................................31
Function operation through PA-PD keys .............................31

Cable Clone .........................................................................33
Resume Factory Default .......................................................33

Programming Software Installing and Starting ...................34
Install USB Cable Driver Programme .................................34

Maintenance ........................................................................35
Default Value For Factory Resume .......................................35
Trouble Shooting ................................................................35

Specifications ......................................................................36

Attached Chart ....................................................................37
51 groups CTCSS Tone Frequency(Hz) ...............................37
1024 groups DCS Code .......................................................37
Dual Band Mobile Radio has nice housing, stoutness & stability, advanced and reliable functions, perfect & valuable. This amateur mobile radio especially designs for drivers and it pursues company philosophy of innovation and practicality. More functions as follows:

- 758 memory channels, full duplex operation with independent volume and squelch controls
- 50 Watts of power output on the VHF band and 40 Watts on the UHF band with cross band repeat function.
- Four independent receiving bands, consist of UU, UV, VU, VV for dual receive and dual output, plus receiving for AM/FM signal of air band, marine band, PMR, etc; able to receive FM/TV radio and analogue TV signal (Optional).
- Display on a large LCD with adjustable brightness, convenient for nighttime use. There are Amateur operation mode and Professional operation mode for option.
- Distribute buttons reasonably, convenient for operation. Adopt superior quality material, better technology and direct-flow heat sink to ensure stable and durable operation.
- 758 programmable memory channels, identified by editing name.
- Programming different CTCSS, DCS, 2Tone, 5Tone per channel, rejecting extra calling from other radios.
- Various scan functions including CTCSS/DCS Scan function.
- Using 5Tone to send Message, Emergency alarm, Call all, ANI, Remotely kill, Remotely Waken, etc.
- Automatic calling Identification function by DTMF--ANI or 5Tone--ANI.
- Multi groups of fixed scrambling and 2 groups of self defined scrambling.
- Compander function for decrease the background noise and enhance audio clarity, it can set compander ON/OFF per channel.
- Different band width per channel, 25K for wide band, 20K for middle band, or 12.5K for narrow band.
- Theft alarm provides extra safety.

**FREQUENCY RANGE**

<table>
<thead>
<tr>
<th>RX: 108~180MHz (AM/FM)</th>
<th>TX: 144~146 MHz</th>
<th>EXP(136~174MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>220~260MHz</td>
<td>430~440MHz</td>
<td>EXP( 400~490MHz)</td>
</tr>
<tr>
<td>350~399.995MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>400~490 MHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Supplied Accessories/Optional Accessories

**SUPPLIED ACCESSORIES**
After carefully unpacking the transceiver, identify the items listed in the table below. We suggest you keep the box and packaging.

- Transceiver
- Microphone (QHM-05) (with DTMF keyboard)
- Mobile Mounting Bracket (QMB-01)
- DC Power Cable with Fuse Holder (QPL-01)
- Hardware Kit for Bracket
  - Black screws (M4x8mm) 4PS (QSS-01A)
  - Tapping screws (M5x8mm) 4PS (QSS-01B)
  - S-Washer (QSS-01D)
- Spare Fuses (QF-01)
- User Manual
- 3 meter extending cable for attachable panel/Cloning Cable (CP52)
- USB Programming Cable (PC51)
- Cigar-Plug Connection Line (QCC-01)
- Programming Software (QPS5888UV_S1)
- Car Antenna (QCA-02)
- Microphone (QHM-02)
- Desktop Microphone (QDM-01)
- External Speaker (SP-02)
- Power supply (QRP-01)
- Front Panel Bracket (QMB-03)

**OPTIONAL ACCESSORIES**

www.at-5888uv.com
3 Initial Installation

MOBILE INSTALLATION

To install the transceiver, select a safe, convenient location inside your vehicle that minimizes danger to your passengers and yourself while the vehicle is in motion. Consider installing the unit at an appropriate position so that knees or legs will not strike it during sudden braking of your vehicle. Try to pick a well ventilated location that is shielded from direct sunlight.

1. Install the mounting bracket in the vehicle using the supplied self-tapping screws (4pcs) and flat washers (4pcs).

2. Position the transceiver, then insert and tighten the supplied hexagon SEMS screws.

Determine the appropriate angle of the transceiver, using the 3 screw hole positions on the side of the mounting bracket.

Double check that all screws are tightened to prevent vehicle vibration from loosening the bracket or transceiver.
Initial Installation

DC POWER CABLE CONNECTION

Locate the power input connector as close to the transceiver as possible.

MOBILE OPERATION

The vehicle battery must have a nominal rating of 12V. Never connect the transceiver to a 24V battery. Be sure to use a 12V vehicle battery that has sufficient current capacity. If the current to the transceiver is insufficient, the display may darken during transmission, or transmitting output power may drop excessively.

1. Route the DC power cable supplied with the transceiver directly to the vehicle's battery terminals using the shortest path from the transceiver.
   - We recommend you do not use the cigarette lighter socket as some cigarette lighter sockets introduce an unacceptable voltage drop.
   - The entire length of the cable must be dressed so it is isolated from heat, moisture, and the engine secondary (high voltage) ignition system cables.

2. After installing cable, in order to avoid the risk of damp, please use heat-resistant tap to tie together with fuse box. Don't forget to reinforce whole cable.

3. In order to avoid the risk of short circuit, please cut down connection with negative (-) of battery, then connect with radio.

4. Confirm the correct polarity of the connections, then attach the power cable to the battery terminals; red connects to the positive (+) terminal and black connects to the negative (-) terminal.
   - Use the full length of the cable without cutting off excess even if the cable is longer than required. In particular, never remove the fuse holders from the cable.

5. Reconnect any wiring removed from the negative terminal.

6. Connect the DC power cable to the transceiver's power supply connector.
   - Press the connectors firmly together until the locking tab clicks.
   - If the ignition-key on/off feature is desired (optional feature), use the optional QCC-01 (For Cigar-Plug connection) cable. Connect one of the cables between the ACC terminal or a Cigar-Plug that operates with the vehicle ignition or ACC switch on the vehicle and EXT POWER jack on the rear side of the unit.

   In many cars, the cigar-lighter plug is always powered. If this is the case, you cannot use it for the ignition key on/off function.
7. When the ignition key is turned to ACC or ON(Start) position with the radio turned off, the power switch illuminates. The illumination will be turned off when the ignition key is turned to the off position. To turn on the unit, press the power switch manually while it is illuminated. (While ignition key is at ACC or ON position)

8. When the ignition key is turned to ACC or ON position with the radio’s power switch on, the unit turns on automatically and the power switch will be lit. Turn the ignition key to OFF position or manually turn the power switch off to shut down the radio.

9. Using extra cable, power consumption: 5MAH.

10. Without this function, user can turn on/off radio by Power knob.

**FIXED STATION OPERATION**

In order to use this transceiver for fixed station operation, you will need a separate 13.8V DC power supply (not included), power supply (QRP-01) as optional accessories. Please contact local dealer to require.

The recommended current capacity of your power supply is 12A.

1. Connect the DC power cable to the regulated DC power supply and ensure that the polarities are correct. (Red: positive, Black: negative).
   - Do not directly connect the transceiver to an AC outlet.
   - Use the supplied DC power cable to connect the transceiver to a regulated power supply.
   - Do not substitute a cable with smaller gauge wires.

2. Connect the transceiver's DC power connector to the connector on the DC power cable.
   - Press the connectors firmly together until the locking tab clicks.

   **NOTE**
   - Before connecting the DC power to the transceiver, be sure to switch the transceiver and the DC power supply OFF.
   - Do not plug the DC power supply into an AC outlet until you make all connections.
If the fuse blows, determine the cause, then correct the problem. After the problem is resolved, replace the fuse. If newly installed fuses continue to blow, disconnect the power cable and contact your authorized dealer or an authorized service center for assistance.

Only use fuses of the specified type and rating, otherwise the transceiver could be damaged.

- Transmitting without first connecting an antenna or other matched load may damage the transceiver. Always connect the antenna to the transceiver before transmitting.
- All fixed stations should be equipped with a lightning arrester to reduce the risk of fire, electric shock, and transceiver damage.

The possible locations of antenna on a car are shown as following:

- **Initial Installation**

- **Replacing Fuses**

- **Antenna Connection**

Before operating, install an efficient, well-tuned antenna. The success of your installation will depend largely on the type of antenna and its correct installation. The transceiver can give excellent results if the antenna system and its installation are given careful attention.

Use a 50Ω impedance antenna and low-loss coaxial feed-line that has a characteristic impedance of 50 Ω, to match the transceiver input impedance. Coupling the antenna to the transceiver via feed-lines having an impedance other than 50Ω reduces the efficiency of the antenna system and can cause interference to nearby broadcast television receivers, radio receivers, and other electronic equipment.

- **NOTE**

If you use the transceiver for a long period when the vehicle battery is not fully charged, or when the engine is OFF, the battery may become discharged, and will not have sufficient reserves to start the vehicle. Avoid using the transceiver in these conditions.

- **NOTE**

- **NOTE**

- **NOTE**

---

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3 Initial Installation

ACCESSORIES CONNECTIONS

**EXTERNAL SPEAKER**

If you plan to use an external speaker, choose a speaker with an impedance of 8 Ω. The external speaker jack accepts a 3.5 mm (1/8”)
mono (2-conductor) plug.

![External Speaker Diagram](image)

**MICROPHONE**

For voice communications, connect a microphone equipped with an 8-pin modular plug into the modular socket on the front of the main unit. Press firmly on the plug until the locking tab clicks. Attach the supplied microphone hanger in an appropriate location using the screws included in the screw set.

![Microphone Diagram](image)

**PC CONNECTING**

To utilize the QPS5888UV_S1 software, you must first connect the transceiver to your PC then using an optional programming cable PC50 (via Data socket).

Please use QPS5888UV_S1 software for programming.

[http://www.qxdz.cn](http://www.qxdz.cn)

*NOTE*

Microphone connector

Ask your dealer about purchasing a Programming Cable PC51.

![Software Accessory Diagram](image)

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## Basic Functions

<table>
<thead>
<tr>
<th>NO.</th>
<th>KEY</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Left Dial Knob</td>
<td>Rotate it to choose frequency /channel. Press it to set the left band as &quot;Main Band&quot;; In VFO mode, press it to choose the frequency band; In function setup as confirm key; in scan mode, rotate it to change scan direction</td>
</tr>
<tr>
<td>2</td>
<td>Right Dial Knob</td>
<td>Rotate it to choose frequency /channel. Press it to set the right band as &quot;Main Band&quot;; In VFO mode, press it to choose the frequency band; In function setup as confirm key; in scan mode, rotate it to change scan direction</td>
</tr>
<tr>
<td>3</td>
<td>Left Volume Knob</td>
<td>Adjust left band volume level.</td>
</tr>
<tr>
<td>4</td>
<td>Right Volume Knob</td>
<td>Adjust right band volume level.</td>
</tr>
<tr>
<td>5</td>
<td>【 TV/SQL 】</td>
<td>In standby, press this key to turn On/Off TV function. Hold this key to cancel squelch</td>
</tr>
</tbody>
</table>

### FRONT PANEL

- **Function set Key**
  - In standby, press this key to enter function menu

- **PWR**
  - Press it to power On/Off the transceiver

- **Left【 LOW 】Key**
  - In standby press it to change H/L power for present channel. Long press it to turn On/Off Frequency Reverse Function

- **Left【 V/M 】Key**
  - In standby, press it to switch between channel mode and VFO mode. Long press it to set Wide/Narrow band.

- **Left【 HM 】Key**
  - In standby, press it to switch between HOME channel and normal channel. Long press it to enter dual watch of VFO channel and current channel.

- **Left【 SCAN 】Key**
  - In standby, press it to start channel or frequency scan. In channel mode, hold it to set current channel scan skip.

- **Right【 LOW 】Key**
  - In standby press it to change H/L power for present channel. Long press it to turn On/Off Frequency Reverse Function

- **Right【 V/M 】Key**
  - In standby, press it to switch between channel mode and VFO mode. Long press it to set Wide/Narrow band.

- **Right【 HM 】Key**
  - In standby, press it to switch between HOME channel and normal channel. Long press it to enter dual watch of VFO channel and current channel.

- **Right【 SCAN 】Key**
  - In standby, press it to start channel or frequency scan. In channel mode, hold it to set current channel scan skip.

- **LCD**
  - For display of channel, frequency and function setup.

---

We only do best radio!

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### REAR PANEL

1. **Ext. Power Jack**
   - Terminal for connecting optional cable QCC01 for use with ignition key On/Off function. The radio will auto power on when car is driving. The radio will auto power off when car stops.

2. **Ext. Speaker Terminal**
   - Terminal for optional external speaker SP02

3. **TV/AV port**
   - Connect to television TV/AV port. (Optional)

4. **Heat-sink fan**
   - Runs automatically when radio temperature rises up.

5. **Antenna Connector**
   - Connect a 50 Ω antenna

### DISPLAY

1. **0-98**
   - Displays the channel number and Menu number.

2. **❤**
   - Appears when current channel is priority channel

3. **SKIP**
   - Appears when current channel is set Scan Skip

4. **ENC**
   - Appears when current channel has CTCSS Encode

5. **DEC**
   - Appears when current channel has CTCSS Decode

6. **±**
   - Appears when the Offset function is ON

7. **TX**
   - Appears while transmitting.

8. **MAIN**
   - Displays the Main channel.

9. **Operating Frequency, Channel Name**
   - Displays the operating frequency, channel name

10. **BUSY**
    - Displays when receiving a signal or Monitor is ON

11. **Signal Strength for Receiving and Power Level for Transmitting**
    - Signal strength for receiving and power level for transmitting

12. **Nar**
    - Appears while in Narrow band.

13. **MUTE**
    - Appears when mute has been turned ON.

14. **DCS**
    - Appears when the DCS function is ON.

15. **AM**
    - Appears while in AM mode

16. **Scrambler**
    - Appears when the Scrambler function is ON.

17. **Compander**
    - Appears when the Compander function is ON.

18. **Low Output Power**
    - Appears while using Low output power

19. **Middle Output Power**
    - Appears while using Middle output power

20. **Auto Power Off Function**
    - Appears when Auto power off function is ON.

21. **Key Lock**
    - Appears when the Key Lock function is ON.

22. **Set**
    - Appears when press SET key.

23. **KEY2**
    - Appears when choose KEY2 mode.

24. **RPT**
    - Appears when cross-band repeat function is ON.
## Getting Acquainted

### MICRophone

<table>
<thead>
<tr>
<th>NO.</th>
<th>KEY</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UP</td>
<td>Increase frequency, channel number or setting value.</td>
</tr>
<tr>
<td>2</td>
<td>DOWN</td>
<td>Decrease frequency, channel number or setting value.</td>
</tr>
<tr>
<td>3</td>
<td>PTT</td>
<td>Press the PTT (Push-TO-Talk) key to transmit.</td>
</tr>
<tr>
<td>4</td>
<td>Number Key</td>
<td>Input VFO frequency or DTMF dial out etc.</td>
</tr>
<tr>
<td>5</td>
<td>A/B band</td>
<td>Choose left band or right band as Main band</td>
</tr>
<tr>
<td>6</td>
<td>Band indicator</td>
<td>The indicator light on for Main band.</td>
</tr>
<tr>
<td>7</td>
<td>TX/RX indicator</td>
<td>Light green while receiving, Light red while transmitting.</td>
</tr>
<tr>
<td>8</td>
<td>MIC</td>
<td>Speak here during transmission.</td>
</tr>
<tr>
<td>9</td>
<td>Speaker</td>
<td>When shut the speaker in the base, you can hear the calling by this speaker.</td>
</tr>
<tr>
<td>10</td>
<td>Lock UP/down</td>
<td>When this key is in up position, It is unlock UP/DOWN key, when this key is in down position, UP/DOWN key will be locked.</td>
</tr>
</tbody>
</table>

### MIC Connector Diagram (in the front view of connector)

![MIC Connector Diagram](image-url)
5 Basic Operations

■ SWITCHING THE POWER ON/OFF

✓ POWER ON

Press [PWR] key to switch the transceiver ON, the LCD displays "WELCOME ANYTONE", then display current frequency or channel.

✓ POWER OFF

Press [PWR] key for over 0.5 Second to switch the transceiver OFF.

■ ADJUSTING THE VOLUME

Rotate the [VOLUME] knob of selected band clockwise to increase the volume, counterclockwise to decrease the volume.

**NOTE**

Hold [VOLUME] keep pressing it to Monitor the background noise after the transceiver emits a DU beep, meanwhile adjust the [VOLUME] knob. During communication, volume can be adjusted more accurate.

■ SWITCH BETWEEN VFO AND CHANNEL MODE

In standby, press corresponding [V/M] key to switch between Frequency and channel mode, when the transceiver is in channel mode, the LCD will display current channel.

![Frequency Range Chart]

<table>
<thead>
<tr>
<th>155.150</th>
<th>445.150</th>
</tr>
</thead>
<tbody>
<tr>
<td>136.125</td>
<td>400.125</td>
</tr>
</tbody>
</table>

■ ADJUSTING FREQUENCY

✓ ADJUSTING FREQUENCY THROUGH SELECTOR KNOB

In frequency (VFO) mode, turn the selector knob clockwise to increase frequency; counterclock-wise to decrease frequency. Every gear will increase or decrease frequency by one step. To adjust the Main band frequency, press corresponding selector knob, the left side of decimal point will flash. In this status, turn the selector knob will increase or decrease frequency quickly by 1MHz step.

**NOTE**

The microphone [UP/DOWN] key also able to adjust frequency. Press [UP/DOWN] key will increase(decrease) the frequency by one step size. Hold [UP/DOWN] key will adjust the frequency continuously.

✓ INPUT FREQUENCY THROUGH MICROPHONE NUMBER KEY

In VFO mode, you can input the frequency by the microphone numeric key. It is invalid to input frequency out of the frequency band. For example:

- to input 150.125MHz, press 1, 5, 0, 1, 2, 5 continuously.
- to input 152 MHz, press 1, 5, 2, # continuously.

**NOTE**

When the Band lockout function is on, the input or adjusting of frequency band will limit within the current VFO band. The right band only limited in 136-174MHz and 400-470MHz.

■ ADJUSTING CHANNEL

✓ ADJUSTING CHANNEL THROUGH SELECTOR KNOB

In channel mode, you can adjust the channel directly by the channel knob. Turn clockwise to increase one channel; turn counterclockwise to decrease one channel. To adjust the Main band channel, press...
correspondent selector knob, the channel number flashes in this situation, the channel number will increase 10 channels by each gear of selector knob. Press microphone [ UP/DOWN ] key also able to adjust the channel.

If there is any empty channel, the adjustment will ignore it and jump to next channel.

**INPUT CHANNEL THROUGH MICROPHONE NUMBER KEY**

In channel mode, you can switch to desired channel by press 3 of the microphone numeric keys (001-758). For example input 001 get channel 1; input 030 is channel 30; input 512 is channel 512. If the input channel is not programmed with frequency, the transceiver will emit a warning beep and return to last channel.

**SWITCH BETWEEN MAIN BAND AND SUB BAND**

This transceiver is default on dual receive, a "MAIN" icon will display in the top right of the working frequency. The transmitting is only available on the Main band. When the left Band is Main band, press the right selector knob will switch the right Band to Main band. Then press the left selector knob will switch the left Band to Main band.

**SELECTING THE FREQUENCY BAND**

1. Choose for Left band: press the left side key to switch it to VFO mode, press the left selector knob over 1 second then repeat above operation will switch the left band between 108-180Mhz (RX: 108-174Mhz, TX: 136-174Mhz), 220-260Mhz (RX only), 350-399.995Mhz (RX only) or 400-490Mhz.
2. Choose for right band: press the right side key to switch it to VFO mode, press the right selector knob over 1 second then repeat above operation will switch the right band between 136-174Mhz, 400-490Mhz.

**RECEIVING**

In standby, both left band and right band are able To receive. When they receive any signal, the “BUSY” icon and signal strength icon will appear in the corresponding area of the LCD. And you can hear the calling.

If the transceiver has set at higher squelch level, it may fail to hear the calling. If the “BUSY” and signal strength icon display in left band or right band, but can not hear the calling, means the signal is with matching carrier but dis-matching signaling.

**SQUELCH OFF/SQUELCH OFF MOMENTARY**

Long press of key can be programmed as Squelch Off or Squelch Off Momentary to monitor the weak signal.

1. Squelch Off: Hold key until hear "Du" beep, the squelch is off, repeat the above operation to resume squelch.
2. Squelch Off Momentary: Keep hold key to disable squelch, release the key to resume squelch.

**TRANSMITTING**

Hold “PTT” key, the transceiver change to transmitting. Please hold the Microphone approximately 2.5-5.0cm from your mouth, and then speak into the microphone in your normal voice to get best timbre.

The transmitting only available on Main band, the “TX” icon will display in the top right corner of the Main band frequency.
Shortcut Operations

**SQUELCH LEVEL SETUP**
This function is used to setup the strength of receiving signal, when the strength reach a certain level, the calling can be heard, otherwise, the transceiver will keep mute.

In standby, press and hold key, meanwhile switch the selector knob to adjust the squelch level of Main band.

1-20: Total 20 squelch levels available.
OFF: turn off squelch. The background noise always on.

NOTE: The squelch level shall setup separately for right band and left band.

**TRANSMIT DTMF/2TONE/5TONE SIGNALING**
If the current channel is with DTMF/2TONE/5TONE signaling, hold PTT and [UP] key will transmit selected Pre-programmed signaling.

**HIGH/MID/LOW POWER SWITCH**
In standby, repeat press key to choose power levels as following:
When LCD displays HIGH, the power for current channel is high.
When LCD displays MID1, the power for current channel is middle 1
When LCD displays MID2, the power for current channel is middle 2.
When LCD displays LOW, the power for current channel is low.

<table>
<thead>
<tr>
<th>HIGH</th>
<th>MID1</th>
<th>MID2</th>
<th>LOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHF (50W)</td>
<td>VHF (20W)</td>
<td>VHF (10W)</td>
<td>VHF (5W)</td>
</tr>
<tr>
<td>UHF (40W)</td>
<td>UHF (25W)</td>
<td>UHF (10W)</td>
<td>UHF (5W)</td>
</tr>
</tbody>
</table>

**NOTE**
In channel mode, this operation is for temporary use only.

**FREQUENCY REVERSE**
In standby, hold key for over 0.5 second to turn ON/Off frequency reverse function. When reverse function is on, the TX frequency will change to RX frequency and RX frequency change to TX frequency.
The signaling will also be reversed if CTCSS/DCS signaling existed in this channel.

**BAND-WIDTH SELECTION**
This transceiver has 3 band widths, select suitable band width in accordance with different local conditions.
In standby, hold key for over 0.5 second to choose the 3 band widths.
When LCD displays WIDE, current channel is working on wide band 25KHz.
When LCD displays MIDDLE, current channel is working on middle band 20KHz.
When LCD displays NARROW, current channel is working on narrow band 12.5KHz.

**HOME CHANNEL**
In standby, press key to switch to HOME channel, and communicate on HOME channel. Repeat pressing it to return to last channel.

**HYPER MEMORY CHANNEL**
In standby, press the left or right volume knob will switch the radio work on hyper channel 1 or hyper channel 2.
**DUAL WATCH**

In standby, hold \[Esc\] key for over 0.5 second to enter Dual Watch mode. The radio will scan the channel in every 5 seconds. When the radio receives matching signal, it pause scanning until the signaling disappear. Repeat above operation to exit Dual watch.

**EMERGENCY ALARM**

To start emergency alarm, hold the right volume knob until the transceiver displays ALARM and emit alarm. Re-power on the transceiver to exit alarm. This transceiver has 4 kind of alarm which can be setup by programming software.

**CHANNEL/FREQUENCY SCAN**

- **FREQUENCY SCAN**

  In VFO mode, this function is designed to monitor signal of every communicative frequency point of "step size" you have set.

  1. In VFO mode, press the Main Band \[Esc\] key to enter channel scan.
  2. During the scanning adjust the Main band selector knob or press microphone \[UP/DOWN\] key will change the scan direction.
  3. Press \[Esc\] key to exit scan.

- **CHANNEL SCAN**

  1. In channel mode, press the Main Band \[Esc\] key to enter channel scan.
  2. During the scanning, adjust the Main band selector knob or press microphone \[UP/DOWN\] key will change the scan direction.
  3. Press \[Esc\] key to exit scan.

- **CHANNEL SCAN SKIP**

  In channel mode, switch selector knob to choose the channel, then hold \[Esc\] for over 0.5 second, the radio prompts "DU DU", and LCD displays "SKIP", and now the current channel is Scan Skip.

**CHANNEL EDIT**

1. In VFO mode, turn selector knob to select the desired frequency or input frequency by MIC's numeric keys.
2. Hold \[SET\] key until the transceiver prompt DU and the display of channel number flashes.
3. Turn selector knob to select the channel number to store. (If the storage has data , the LCD will display the frequency, otherwise will display "--------")
4. Press \[SET\] key, the LCD display MEN- IN, the channel edit completed.

**SCAN RANGE LIMIT**

You can set the VFO scan frequency range by this function:

1. Choose upper limit and lower limit frequency, there are L1/U1- L5/ U5, five couple of limit frequency for selection. L stands for lower limit and U stands for the upper limit. the upper limit must over the lower limit frequency. Please refer to the Channel Edit to setup the limit frequency.
2. In VFO mode, set the VFO frequency in the range between upper and lower limit.
3. Press \[Esc\] key to start scan in lmited range.

**CHANNEL COPY**

1. In channel mode, turn the selector knob to choose the channel.
2. Hold \[SET\] key until the transceiver prompt a Du and channel number display flashes.
3. Turn selector knob to choose channel number for storage. (If the...
Shortcut Operations

In standby, hold [set] key until the transceiver prompt DU, and channel number flashes.

1. Turn selector knob to choose channel number for delete. (If the storage has data, the LCD will display the frequency, otherwise will display “----------”)

2. Hold Main band volume knob, until the transceiver emit DU DU prompt and LCD displays MEN-OUT, the channel delete completed.

3. Press [set] key, the LCD displays MEN-IN, channel copy completed.

 CHANNEL DELETE

1. In standby, hold [set] key until the transceiver prompt DU, and channel number flashes.

2. Turn selector knob to choose channel number for delete. (If the storage has data, the LCD will display the frequency, otherwise will display “----------”)

3. Hold Main band volume knob, until the transceiver emit DU DU prompt and LCD displays MEN-OUT, the channel delete completed.
Basic operation steps for Function menu

1. Press \[ \text{SET} \] key to enter function menu.
2. Turn the Main band selector knob to choose wanted function.
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
5. Press the Main band selector knob to store value and back to function menu. Press \[ \text{VOL} \] key or hold selector knob for over 0.5 second to store setup and exit.

**APO (AUTOMATIC POWER OFF)**

Once APO is activated, the transceiver will be automatically switched off when the pre-set timer running out.

1. Press \[ \text{SET} \] key to enter function menu.
2. Turn the Main band selector knob to choose No. 01 menu. the LCD displays “APO”
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value. Available values: 0.5-12Hours, OFF
5. Press the Main band selector knob or \[ \text{SET} \] key to store value and back to function menu. Press \[ \text{VOL} \] key or hold selector knob for over 0.5 second to store setup and exit.

**FREQUENCY CHANNEL STEP SETUP**

Only in frequency (VFO) mode, this function is valid. Turn selector knob to select frequency or frequency scanning which is restricted by frequency step size.

1. Press \[ \text{SET} \] key to enter function menu.
2. Turn the Main band selector knob to choose No. 03 menu. the LCD displays "STEP"
3. Press the Main band selector knob to enter function setup.
5. Press the Main band selector knob or \[ \text{SET} \] key to store value and back to function menu. Press \[ \text{VOL} \] key or hold selector knob for over 0.5 second to store setup and exit.

**NOTE**

When the Automatic offset is ON, the offset for 136-174Mhz is default on 0.6Mhz, and for 400-490 is default on 5Mhz.

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General Setting

### VFO BAND LOCKOUT

In VFO mode, when this function is on, the scanning or input of frequency will restricted within the current VFO frequency band.

1. Press \[ \text{SET} \] key to enter function menu.
2. Turn the Main band selector knob to choose No. 04 menu. the LCD displays "BAND"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   - **ON**: Turn on VFO band lockout function
   - **OFF**: Turn off VFO band lockout function
5. Press the Main band selector knob or \[ \text{SET} \] key to store value and back to function menu. Press \[ \text{MEM} \] key or hold selector knob for over 0.5 second to store setup and exit.

### BEEP FUNCTION

1. Press \[ \text{SET} \] key to enter function menu.
2. Turn the Main band selector knob to choose No. 05 menu. the LCD displays "BEEP"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   - **ON**: Turn on Beep function
   - **OFF**: Turn off Beep function
5. Press the Main band selector knob or \[ \text{SET} \] key to store value and back to function menu. Press \[ \text{MEM} \] key or hold selector knob for over 0.5 second to store setup and exit.

### CPU CLOCK FREQUENCY CHANGE

When any harmonic or image frequency in the CPU clock disturbs the working frequency, turn on this function will cut the disturbing

1. Press \[ \text{SET} \] key to enter function menu.
2. Turn the Main band selector knob to choose No. 06 menu. the LCD displays "CLK.SFT"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   - **ON**: Turn on CPU Clock frequency Change
   - **OFF**: Turn off CPU Clock frequency Change
5. Press the Main band selector knob or \[ \text{SET} \] key to store value and back to function menu. Press \[ \text{MEM} \] key or hold selector knob for over 0.5 second to store setup and exit.

### 2TONE ENCODE SELECT

1. Press \[ \text{SET} \] key to enter function menu.
2. Turn the Main band selector knob to choose No. 07 menu. the LCD displays "2TN ENC"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   - **Available Values**: 0-23, total 24 groups.
5. Press the Main band selector knob or \[ \text{SET} \] key to store value and back to function menu. Press \[ \text{MEM} \] key or hold selector knob for over 0.5 second to store setup and exit.

**NOTE**

- When any harmonic or image frequency in the CPU clock disturbs the working frequency, turn on this function will cut the disturbing.
- **CPU CLOCK FREQUENCY CHANGE**
  - **ON**: Turn on CPU Clock frequency Change
  - **OFF**: Turn off CPU Clock frequency Change
- **2TONE ENCODE SELECT**
  - **Available Values**: 0-23, total 24 groups.
- After choose the 2TONE encode group. Press PTT will transmit selected code.

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5TONE ENCODE SELECT

1. Press \textit{\textbf{SET}} key to enter function menu.
2. Turn the Main band selector knob to choose No. 08 menu. the LCD displays "5TN ENC"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   Available Values: 0-99, total 100 groups.
5. Press the Main band selector knob or \textit{\textbf{SET}} key to store value and back to function menu. Press \textit{\textbf{CONF}} key or hold selector knob for over 0.5 second to store setup and exit.

\textbf{NOTE} if the 5TONE encode are programmed with name, the LCD will display corresponding name.

ADD OPTIONAL SIGNALING

This transceiver has 3 optional signaling: DTMF/5Tone/2Tone, those signaling function similar to CTCSS/DCS signaling. When the receiver adds an optional signaling, the caller shall transmit matching signaling. DTMF and 5Tone signaling can be applied for other advanced features such as ANI, PTT ID, group call, select call, remotely stun, remotely kill waken…etc

1. Press \textit{\textbf{SET}} key to enter function menu.
2. Turn the Main band selector knob to choose No. 09 menu. the LCD displays "TON DEC"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value
   DT: means DTMF signaling is added.
   2T: means DTMF signaling is added.
   5T: means DTMF signaling is added.
   OFF: Turn off optional signaling
5. Press the Main band selector knob or \textit{\textbf{SET}} key to store value and back to function menu. Press \textit{\textbf{CONF}} key or hold selector knob for over 0.5 second to store setup and exit.

\textbf{NOTE} The working of optional signaling shall be work associated with the squelch mode setup. (Refer to Squelch Mode setup in page 20)

CTCSS/DCS ENCODE SETUP

1. Press \textit{\textbf{SET}} key to enter function menu.
2. Switch the Main band selector knob to choose No 10 menu, the LCD displays "TX CDCS"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value
   OFF: Turn off CTCSS/DCS encode.
   CTCSS: Choose CTCSS encode.
   DCS: Choose DCS encode.
5. Press the Main band selector knob to enter the menu.
6. Switch the Main band selector knob to choose wanted CTCSS, DCS code.
   CTCSS: 62.5-254.1HZ, and one self-define group, total 52 groups
   DCS: 000N-777I, total 1024 groups

\textbf{NOTE}
7. Press the Main band selector knob or \( \text{SET} \) key to enter function menu. Press \( \text{SET} \) key or hold selector knob for over 0.5 second to store setup and exit.

**CTCSS/DCS DECODE SETUP**

1. Press \( \text{SET} \) key to enter function menu.
2. Switch the Main band selector knob to choose No 11 menu, the LCD displays "RX CDCS"
3. Press the Main band selector knob to enter function setup
4. Switch the Main band selector knob to choose wanted value
   - **OFF:** Turn off CTCSS/DCS decode.
   - **CTCSS:** Choose CTCSS decode.
   - **DCS:** Choose DCS decode.
5. Press the Main band selector knob to enter the menu.
6. Switch the Main band selector knob to choose wanted CTCSS, DCS code.
   - **CTCSS:** 62.5-254.1HZ, and one self-defined group, total 52 groups
   - **DCS:** 000N-777I, total 1024 groups
7. Press the Main band selector knob or \( \text{SET} \) key to store value and back to function menu. Press \( \text{SET} \) key or hold selector knob for over 0.5 second to store setup and exit.

**NOTE** The working of CTCSS/DCS decode shall be work associated with the squelch mode setup. (Refer to Squelch Mode setup in page 20)

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**SUB BAND DISPLAY SETUP**

1. Press \( \text{SET} \) key to enter function menu.
2. Turn the Main band selector knob to choose No. 12 menu. the LCD displays "DSP SUB"
3. Press the Main band selector knob to enter function setup
4. Switch the Main band selector knob to choose wanted value.
   - **FREQ:** display sub band frequency,
   - **DC-IN:** display sub band voltage.
   - **OFF:** turn off display for sub Band
5. Press the Main band selector knob or \( \text{SET} \) key to store value and back to function menu. Press \( \text{SET} \) key or hold selector knob for over 0.5 second to store setup and exit.

**DTMF ENCODE PRE-LOADING TIME**

1. Press \( \text{SET} \) key to enter function menu.
2. Turn the Main band selector knob to choose No. 13 menu. the LCD displays "DMF D"
3. Press the Main band selector knob to enter function setup
4. Switch the Main band selector knob to choose wanted value.
   - **100MS:** The Pre-Loading time is 100MS
   - **300MS:** The Pre-Loading time is 300MS
   - **500MS:** The Pre-Loading time is 500MS
   - **800MS:** The Pre-Loading time is 800MS
   - **1000MS:** The Pre-Loading time is 1000MS
5. Press the Main band selector knob or \( \text{SET} \) key to store value and back to function menu. Press \( \text{SET} \) key or hold selector knob for over 0.5 second to store setup and exit.

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**DTMF ENCODE TRANSMITTING TIME**

1. Press `set` key to enter function menu.
2. Turn the Main band selector knob to choose No 14 menu. The LCD displays "DTMF S"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   - 30MS: The time for transmit a single DTMF encode and the interval is 30MS,
   - 50MS: The time for transmit a single DTMF encode and the interval is 50MS,
   - 80MS: The time for transmit a single DTMF encode and the interval is 80MS,
   - 100MS: The time for transmit a single DTMF encode and the interval is 100MS,
   - 150MS: The time for transmit a single DTMF encode and the interval is 150MS,
   - 200MS: The time for transmit a single DTMF encode and the interval is 200MS,
   - 250MS: The time for transmit a single DTMF encode and the interval is 250MS,
5. Press the Main band selector knob or `set` key to store value and back to function menu. Press `halt` key or hold selector knob for over 0.5 second to store setup and exit.

**DTMF ENCODE SETUP**

1. Press `set` to enter function menu
2. Switch the Main band selector knob to choose No 15 menu, the LCD displays DTMF W
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose DTMF group. Then press `set` key back to DTMF menu. Press PTT will transmit with selected DTMF code.
   - 06-16: total 16 group of DTMF code.
5. When the selected group is empty, the LCD displays '-----'
6. Press the selector knob to enter the DTMF signaling edit. The LCD display "- - - - - -", the last character flashes.
7. Switch the selector knob to choose wanted character. Press the selector knob to confirm selected value and start edit for next character.
8. Press `set` key to store value and exit code editing. Press `set` key again to store setup and exit. Press `halt` key or hold selector knob for over 0.5 second to store setup and exit.

**SQUELCH MODE SETUP**

This transceiver has 5 squelch modes available. Squelch function is used for increase the level of filtering unwanted signal, and free from disturb.

1. Press `set` key to enter function menu.
2. Turn the Main band selector knob to choose No 16 menu. The LCD displays "SGN SQL"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value
   - SQ: You can hear the calling once receives matching carrier.
   - CTSS/DCS: You can hear the calling when receives matching carrier and CTCSS/DCS code.
   - TONE: You can hear the calling when receives matching carrier + optional signaling.
   - CT*TO: You can hear the calling when receives matching carrier + CTCSS/DCS + optional signaling.
   - CT/TO: You can hear the calling when receives any matching carrier or CTCSS/DCS or optional signaling.
General Setting

5. Press the Main band selector knob or \( \text{SET} \) key to store value and back to function menu. Press \( \text{VIS/BK} \) key or hold selector knob for over 0.5 second to store setup and exit.

\[ \text{NOTE} \] Only when the transceiver is set with CTCSS/DCS or optional DTMF/STONE/TONE signaling, the values will be available.

COMPANDER

Compander function will decrease the background noise and enhance audio clarity, especially in long range communication.

1. Press \( \text{SET} \) key to enter function menu.
2. Turn the Main band selector knob to choose No 17 menu. The LCD displays \( \text{"COMP"} \).
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   
   ON: Compander function is turn on
   
   OFF: Compander function is turn off

5. Press the Main band selector knob or \( \text{SET} \) key to store value and back to function menu. Press \( \text{VIS/BK} \) key or hold selector knob for over 0.5 second to store setup and exit.

\[ \text{NOTE} \] When using compander, to avoid distortion during communications, both radios need turn on this function.

SCRAMBLER SETUP

This special audio process can offer a more confidential communication; other radio with same frequency will receive only disordered noises.

1. Press \( \text{SET} \) key to enter function menu.
2. Turn the Main band selector knob to choose No 18 menu. The LCD displays \( \text{"SCR"} \).
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted group.
   1-9 (9 fix groups)U1,U2 (2 self defined scrambler groups),OFF.

5. Press the Main band selector knob or \( \text{SET} \) key to store value and back to function menu. Press \( \text{VIS/BK} \) key or hold selector knob for over 0.5 second to store setup and exit.

\[ \text{NOTE} \] To enable communication with scrambler, 2 transceivers shall set with same group.

TONE BURST (PILOT FREQUENCY)

This function uses to start repeater. It needs certain intensity Pilot Frequency to start a dormant repeater. As usual, no need to send pilot frequency again once repeater started.

1. Press \( \text{SET} \) key to enter function menu.
2. Turn the Main band selector knob to choose No 19 menu. The LCD displays \( \text{"TBST"} \).
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted frequency.
   1000: Pilot Frequency is 1000Hz.
   1450: Pilot Frequency is 1450Hz.
   1750: Pilot Frequency is 1750Hz.
   2100: Pilot Frequency is 2100Hz.

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General Setting

5. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [DOWN] key or hold selector knob for over 0.5 second to store setup and exit.

After the above setup, hold microphone PTT key and [DOWN] key, the radio will transmit selected tone.

<table>
<thead>
<tr>
<th>KEYPAD MODE SETUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Press [SET] key to enter function menu.</td>
</tr>
<tr>
<td>2. Turn the Main band selector knob to choose No 20 menu. The LCD displays &quot;KEYMOD&quot;</td>
</tr>
<tr>
<td>3. Press the Main band selector knob to enter function setup.</td>
</tr>
<tr>
<td>4. Switch the Main band selector knob to choose wanted mode.</td>
</tr>
<tr>
<td><strong>KEY1</strong>: key1 mode, Normal mode, the left 4 keys have same functions as the right 4 keys.</td>
</tr>
<tr>
<td><strong>KEY2</strong>: the left 4 keypads will shared by both band. And the right 4 key pads will be re-defined.</td>
</tr>
<tr>
<td>5. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [DOWN] key or hold selector knob for over 0.5 second to store setup and exit.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Notice</strong>: Definition of Keypad in KEY2 mode:</td>
</tr>
<tr>
<td>1. Left [LOW] Short press: In VFO mode, short press this key, the frequency step size changes to 1Mhz, in channel mode, adjust selector knob will jump 10 channels.</td>
</tr>
<tr>
<td>2. Right [LOW] long press: In standby, long press this key to add/delete optional signaling, repeat the long press it will set optional signaling DTMF, 5TONE or 2TONE.</td>
</tr>
</tbody>
</table>

LCD displays DT means DTMF, displays 5T means 5TONE, displays 2T means 2TONE.

3. Right band [VM] long press: Talk Around. When this function is activated, transceiver can not communicate with repeater. The transceiver will transmit by RX frequency with its CTCSS/DCS signaling. Repeat the operation to turn off Talk Around.

4. Right [VM] short press: Frequency reverse function, when current channel is setup with offset direction and offset frequency, press this key will turn on frequency reverse function. When frequency reverse function is on the TX frequency turns to RX frequency & RX frequency changes to TX frequency. The signaling will also be reversed if CTCSS/DCS signaling existed in this channel. Repeat the short press it will turn off Frequency reverse function.

5. Right [VM] long press: In stand by, hold this key until the LCD displays [IM], means the compander function is on, repeater above operation to turn off compander function.

6. Right [HM] short press: In standby, press this key to set the CTCSS/DCS code for current channel. When the LCD displays ENC and DEC, the current channel is with CTCSS code function. When the LCD displays OFF, the current channel is without CTCSS/DCS function.

7. Right [HM] long press: In standby, long press this key to enter CTCSS/DCS scan, when find matching CTCSS/DCS signal, the scan will pause in the way following Scan Dwell.
time. The scan direction can be changed by corresponding channel selector knob. Note: To enable this function, the channel shall be programmed with CTCSS/DCS decode.

8. Right [SCAN] short press, shot press this key, the sub band will display "MAIN" and flashes. In this case, you can setup for sub band without switch between Main band and Sub band.

9. Right [SCAN] long press, choose scrambler group for Main band. In standby, hold this key, the LCD displays SCR X and icon. X stands for the group number, repeater above operation to choose wanted group.

### KEYPAD LOCKOUT

1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No 21 menu. The LCD displays "LOCK"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted mode.
   - **ON:** The keypad lockout function is turn on, all keys beside [SET] and band switch knob are invalid.
   - **OFF:** The keypad lockout function is turn off.
5. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [NO] key or hold selector knob for over 0.5 second to store setup and exit.

### TX OFF (PTT LOCKOUT)

1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No 22 menu. The LCD displays "LOCKT"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted mode.
   - **BAND R,** lock the right band PTT. Only able to transmit by left band.
   - **BAND L,** lock the left band PTT. Only able to transmit by right band.
   - **BAND BOTH,** lock both band PTT. Not able to transmit by any side.
   - **OFF:** PTT no lock.
5. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [NO] key or hold selector knob for over 0.5 second to store setup and exit.

### SQUELCH LEVEL SETUP

1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No 23 menu. The LCD displays "SQL"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value
   - **1-20:** total 20 squelch levels
   - **OFF:** Turn off squelch function, the background noise keep on.
5. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [NO] key or hold selector knob for over 0.5 second to store setup and exit.

### FREQUENCY REVERSE

With this function on, the transceiver will be able to communicate with a transceiver in same network without through a repeater.

1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No 24 menu. The LCD displays "REV"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   **ON:** Frequency Reverse is turn on, The TX and RX frequency will be exchanged, the CTCSS DCS signaling also will be exchanged if existed in current channel.
   **OFF:** Turn off Frequency Reverse.

5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

### SUB BAND MUTE SETUP

To avoid the receiving of sub band disturbing the communication of the main band, you can turn on this function. The RX of the sub band will be mute during the RX or TX of the main band.

1. Press key to enter function menu.
2. Turn the Main band selector knob to choose No 25 menu. The LCD displays "MUTE"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   **TX:** When the Main band is transmitting, the sub band receiving will be mute.
   **RX:** When the Main band is receiving, the sub band receiving will be mute.
   **RX/TX:** the sub band receiving always mute.

5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

### EDITING CHANNEL NAME

After edit a name for a channel, if the display mode is channel name, the will display the name edited in this menu. Otherwise it will display the frequency.

1. Press key to enter function menu.
2. Switch the selector knob to choose NO 26 function menu, the LCD displays "NAME C".
3. Press the Main band selector knob to enter function setup.
4. Switch the selector knob to choose wanted character.
5. Press the selector knob to confirm current character and start edit next character, after editing all 7 characters, press the selector knob to confirm and back to function menu.

6. If the editing not reach 7 characters, press key back to function menu, then press key or hold selector knob for over 0.5 second to store setup and exit.

### CHANNEL FUNCTION AUTO STORAGE SETUP

This function is used to store lastest setup for each single channel. when this function is on, all the latest temporary operation for present channel will be stored no matter change channel or power off radio. when this function is off, the temporary setup will not be stored, the channel informaiton will resume to the last stored value after change channel or power off radio.

1. Press key to enter function menu
2. Turn the Main band selector knob to choose NO27 menu, The LCD displays "HYPER"
3. Press the Main band selector knob to enter function setup.
General Setting

4. Switch the Main band selector knob to choose wanted value.
   - **MANUAL:** Auto storage is turn off.
   - **AUTO:** Auto storage is turn on.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

**MICROPHONE PA, PB, PC, PD KEY SETUP**

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No 28-31 menu. The LCD displays "PG PA", "PG PB", "PG PC", "PG PD".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

**NOTE**
For Menu details, please refer to Page 30-31, Microphone Operation.

**RF SQUELCH LEVEL SETUP**

When squelch level function is on, you can cancel squelch only when the signal strength reach the level setup by users.

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No 32 menu. The LCD displays "RF SQL".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   - **S-2:** Able to hear the calling when the power meter reach 1 bar.
   - **S-5:** Able to hear the calling when the power meter reach 4 bar.
   - **S-9:** Able to hear the calling when the power meter reach 8 bar.
   - **S-FULL:** Able to hear the calling when the power meter reach full bar.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

**OFFSET DIRECTION SETUP**

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No 33 menu. The LCD displays "RPT MOD".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted Offset direction.
   - **-**: Minus offset, means transmitting frequency lower than receiving frequency.
   - **+**: Plus offset, means transmitting frequency higher than receiving frequency.
   - **OFF:** OFFSET is turn off. Transmitting frequency is same as receiving frequency.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

**SCAN DWELL TIME SETUP**

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No 34 menu. The LCD displays "SCAN".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

**TIME:** it pauses 5s once scanning a matching signal, then resume scan.
**BUSY:** it pauses once scanning a matching signal, then resume scan after the signal disappeared for 2 seconds.
**SECEDE:** It Stops once scanning a matching signal, and exit scan.

5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

### PRIORITY CHANNEL SCAN

1. Press key to enter function menu.
2. Turn the Main band selector knob to choose No35 menu. The LCD displays "SCAN M".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

**MEN:** Channel Scan, the transceiver will scan all the channels after enter channel scan.

**MSN:** Priority Channel Scan, the transceiver will only scan the priority channel after enter channel scan.

5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

**NOTE**
Before using Priority channel scan function, the edited channel shall be programmed as "P SCAN" or refer to the PRI instruction in page 29 to add or delete priority channel.

### OFFSET FREQUENCY SETUP

1. Press key to enter function menu.
2. Turn the Main band selector knob to choose No36 menu. The LCD displays "SHIFT".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

Available Offset frequency for this transceiver is 0-100MHz.

5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

### DISPLAY MODE SETUP

1. Press key to enter function menu.
2. Turn the Main band selector knob to choose No37 menu. The LCD displays "DISPLAY".
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.

**FREQ:** The radio displays channel number + frequency in channel mode, if press key, it will change to VFO mode.

**CH:** Displays only channel number.

**NAME:** In channel mode, it displays the channel number and channel name if the current channel is programmed with a name. Otherwise, it displays the channel number and frequency. If press key, it will change to VFO mode.

5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.
BUSY CHANNEL LOCKOUT
With this function on, the transceiver will not transmit on a busy channel, to avoid disturbing other transceiver using same frequency. Once the channel is busy and you press PTT, the transceiver will beep as warning and return to receiving.
1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No38 menu. The LCD displays "REPLOCK"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   RLOP: Signaling busy lockout, transmitting is inhibited when current channel receives a matching carrier but dis-matching CTCSS/DCS.
   RLOBU: Channel busy lockout, transmitting is inhibited when current channel receives a matching carrier;
   OFF: Busy channel lockout is disabled. Transmitting is allowed in any receiving status.
5. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [NON] key or hold selector knob for over 0.5 second to store setup and exit.

STONE SELF ID ENQUIRY
1. Press [SET] key to enter function menu.
2. Switch the selector knob to choose No40 function. The LCD displays "STONE ID"
3. Press the Main band selector knob to enter function setup. The LCD will show the DTMF self ID.
4. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [NON] key or hold selector knob for over 0.5 second to store setup and exit.

TOT (TIME-OUT TIMER)
The time-out timer limits the amount of continuous transmitting time. When the transmitting reaches the time limit which has been programmed, the transmission will be cut off and emit warning beep.
1. Press [SET] key to enter function menu.
2. Turn the Main band selector knob to choose No41 menu. The LCD displays "TOT"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   1-30 MIN, total 30 levels,
   OFF: TOT is turn off.
5. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [NON] key or hold selector knob for over 0.5 second to store setup and exit.

RADIO'S DTMF SELF ID ENQUIRY
1. Press [SET] key to enter function menu.
2. Switch the selector knob to choose No 39 function. The LCD displays "DTMF ID"
3. Press the Main band selector knob to enter function setup. The LCD will show the DTMF self ID.
4. Press the Main band selector knob or [SET] key to store value and back to function menu. Press [NON] key or hold selector knob for over 0.5 second to store setup and exit.
**General Setting**

**VFO FREQUENCY LINKAGE**
Enable this function, the adjustment for any band of VFO frequency, will bring same frequency change to both bands. Adjust one gear, the frequency for both bands will increase or decrease one step size value.

1. Press **SET** key to enter function menu.
2. Turn the Main band selector knob to choose No 42 menu. The LCD displays "VFOTR"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   - Available Values: **ON**, **OFF**.
5. Press the Main band selector knob or **SET** key to store value and back to function menu. Press **SET** key or hold selector knob for over 0.5 second to store setup and exit.

This function is only valid when both bands work on VFO mode.

**WIDE/NARROW BAND**
1. Press **SET** key to enter function menu.
2. Turn the Main band selector knob to choose No 43 menu. The LCD displays "WIDNAR"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
   - **WIDE**: Wide band (25KHz)
   - **MIDDLE**: Middle band (20KHz)
   - **NARROW**: Narrow band (12.5KHz)
5. Press the Main band selector knob or **SET** key to store value and back to function menu. Press **SET** key or hold selector knob for over 0.5 second to store setup and exit.

**CROSS BAND REPEAT**
Set the left band and right band as VHF (136~174MHz) and UHF(400~470MHz)then turn off this function will enable Cross Band repeater function.

1. Press **SET** key to enter function menu.
2. Switch the selector knob to choose No 44 function. The LCD displays "X-RPT"
3. Press the Main band selector knob, the LCD displays "XSTART".
4. Press the Main band selector knob, the radio prompt “DU” and the LCD displays "RPT", the cross band repeat function is on.
5. Press **SET** key to enter function menu.
6. Turn the Main band selector knob to choose No. 45-47 menu. The LCD displays "COL RED","COL GRN","COL BLU"
7. Press the Main band selector knob to enter function setup.
8. Switch the Main band selector knob to choose wanted value.
    - **WIDE**: Wide band (25KHz)
    - **MIDDLE**: Middle band (20KHz)
    - **NARROW**: Narrow band (12.5KHz)
9. Press the Main band selector knob or **SET** key to store value and back to function menu. Press **SET** key or hold selector knob for over 0.5 second to store setup and exit.

**LCD BACKLIGHT**
1. Press **SET** key to enter function menu.
2. Turn the Main band selector knob to choose No. 45-47 menu. The LCD displays "COL RED","COL GRN","COL BLU"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
5. Press the Main band selector knob or **SET** key to store value and back to function menu. Press **SET** key or hold selector knob for over 0.5 second to store setup and exit.

**KEYPAD BACKLIGHT BRIGHTNESS**

**NOTE** Press **SET** will turn off cross band function.

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General Setting

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 48 menu. The LCD displays "DIMMER"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press MODE key or hold selector knob for over 0.5 second to store setup and exit.

Calling Record

The transceiver offers enquiry of calling record.
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 49 menu. The LCD displays "NOTE"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
This transceiver is able to record 16 calling at most.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press SET key or hold selector knob for over 0.5 second to store setup and exit.

AM Function

1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 50 menu. The LCD displays "AM"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value.
ON: turn on AM function.
OFF: turn off AM function.
5. Press the Main band selector knob or SET key to store value and back to function menu. Press SET key or hold selector knob for over 0.5 second to store setup and exit.

VHF External Speaker Port

When the function setup as external (EXT), an external Dual Track speaker (SP-02) must be connected in order to hear the calling on VHF. The calling from VHF and UHF are separated in 2 tracks.
1. Press SET key to enter function menu.
2. Turn the Main band selector knob to choose No. 52 menu. The LCD displays "VSPCONT"
3. Press the Main band selector knob to enter function setup.

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4. Switch the Main band selector knob to choose wanted value.
   **INT**: Internal speaker, VHF and UHF band share one speaker
   **EXT**: External speaker, the calling on VHF is only audible through the external Dual Track speaker.

5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

**BEEP VOLUME CONTROL**

1. Press key to enter function menu.
2. Turn the Main band selector knob to choose No. 53 menu. The LCD displays “BP-VOL”
3. Press the Main band selector knob to enter function setup
4. Switch the Main band selector knob to choose wanted value.
   **LOW**: BEEP volume is low.
   **HIGH**: BEEP volume is high.
5. Press the Main band selector knob or key to store value and back to function menu.

**TALK AROUND**

With this function on, the transceiver will not able to communicate with another transceiver through a repeater.

1. Press key to enter function menu.
2. Turn the Main band selector knob No 54 menu. The LCD displays “TALK”
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value
   **ON**: Turn on Talk Around
   **OFF**: Turn off Talk Around

5. Press the Main band selector knob or key to store value and back to function menu.

**PASSWORD FUNCTION**

1. Press key to enter function menu.
2. Turn the Main band selector knob to choose No 55 menu. The LCD displays "PASSWD"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value
   **HSPKOFF**: Turn off microphone speaker.
   **HSPK ON**: Turn on microphone speaker.
   **MSPKOFF**: Turn off Main speaker.
5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

**MICROPHONE SPEAKER**

1. Press key to enter function menu.
2. Turn the Main band selector knob to choose No 55 menu. The LCD displays "HND SPK"
3. Press the Main band selector knob to enter function setup.
4. Switch the Main band selector knob to choose wanted value
   **INT**: Internal speaker, VHF and UHF band share one speaker
   **EXT**: External speaker, the calling on VHF is only audible through the external Dual Track speaker.
5. Press the Main band selector knob or key to store value and back to function menu. Press key or hold selector knob for over 0.5 second to store setup and exit.

**NOTE**

When password function is on, correct password shall be input after power on. The password shall be programmed before using this function.
Microphone Operation

**SEND DTMF SIGNALING**

Hold the PTT key; input the desired DTMF signaling by the numeric keys.

**MAIN/SUB BAND SWITCHING**

This transceiver is defaulted on dual receive, in this status, a MAIN icon will display in the top right corner of the Main band frequency, transmitting is only available on the Main band. In standby, you can switch Main band and sub band by the A/B key.

**FUNCTION OPERATION THROUGH PA-PD KEYS**

The PA,PB,PC,PD, keys are programmable, they can be endowed with the following functions.

- **RPTR:** OFFSET direction setup, in standby, press the key programmed as RPTR function will change the offset direction. when LCD displays"+", means plus offset, when the LCD displays"-", means minus offset.

![Diagram of RPTR function](image)

**NOTE** This function is valid only when current channel set with offset frequency.

- **PRI:** Add or delete priority channel: In channel mode, press the key programmed as PRI function to set priority channel, when the LCD displays the current channel is set as priority channel. repeat above operation, the disappear, the curent channel is not set as priority channel.

![Diagram of PRI function](image)

- **LOW:** Output power setup, in standby, press the key programmed as LOW function will change the power level. When LCD displays HIGH, the transmitting power on current channel is high. When LCD displays MID1, the transmitting power on current channel is middle1, When LCD displays MID2, the transmitting power on current channel is middle 2. When LCD displays LOW, the transmitting power on current channel is low.

![Diagram of LOW function](image)

- **TONE:** CTCSS/DCS code setup. In standby, press the key programmed as TONE function will be able to setup CTCSS/DCS code when the LCD displays "ENC" and CTCSS frequency, press the [ UP/DOWN ] key to choose CTCSS encode. When the LCD displays "ENC","DEC" and CTCSS frequency,press the microphone [ UP/DOWN ] key to choose CTCSS decode. When the LCD displays "DCS" and DCS code, press the microphone [ UP/DOWN ] key to choose DCS code.

![Diagram of TONE function](image)

- **MHZ:** In VFO mode, press the key programmed as MHZ function, the megabit digital in the LCD flashes, now turn the channel knob or microphone [ UP/DOWN ] key to adjust frequency by 1Mhz step. In channel mode, press this key, the channel number flashes, now adjust selector knob or microphone [ UP/DOWN ] key to adjust channel.

![Diagram of MHZ function](image)

AnyTone

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REV: In standby, press the key programmed as "REV" function to turn on or turn off Frequency Reverse function.

HOME: HOME channel switch, in standby press the key programmed as "HOME" function to switch between HOME channel and current channel.

MAIN: Main band switch, in standby press the key programmed as "MAIN" function to choose left band or right band as Main band.

VFO/MR: Working mode switch. in standby, press the key programmed as "VFO/MR" function to switch between channel mode and frequency mode.

SCAN: Scan function, in standby, press the key programmed as "SCAN" function to start channel scan or frequency scan.

SQL OFF: Turn off Squelch, in standby, press the key programmed as "SQL OFF" function to turn off squelch, you can hear very weak signal, repeat the above function to turn on squelch.

TBST: Transmit tone burst, in standby; press the key programmed as "TBST" function to transmit selected tone burst. This function is use to wake sleeping repeater.

CALL OUT: Calling, in standby, press the key programmed as "CALL OUT" function to transmit pre-programmed DTMF, 2TONE, 5TONE code.

COMP: Comander function in standby, press the key programmed as "COMP" to turn on or turn off Comander function.

SCR: Scrambler function, in standby, press the key programmed as "SCR" function to turn on or turn off Scrambler function. And choose optional scrambler groups (from 9 fixed groups and 2 self defined groups).

TONE DEC: Add Optional Signaling, in standby press the key programmed as "TONE DEC" function to choose DTMF(DT), 2TONE(2T), 5TONE(5T)or OFF.

W/N: Wide or narrow band setup, in standby, press the key programmed as "W/N" function to choose Wide band, middle and narrow band.

OFF: No function.
9 Cable Clone

This feature will copy the programmed data and parameters from the master unit to slave units. It copies the parameters and memory program settings.

1. Use optional CP51 cloning cable, connect the cable between the data jacks on both master and slave.

2. Press and hold right band \textbf{LOW} key to power on, then hold this key until the LCD displays "\textbf{CLONE}".

3. Hold the Main band \textbf{TONS} key. The Master unit and Slave unit both display "\textbf{CLONE XX}". "XX" stands for the data amount being cloned, when the Master unit displays "\textbf{CLONE}" again, the Slave unit repowers on, means the clone completed. Turn off the Slave unit, and change another slave unit. then repeat step 3 to clone next radio.

\textbf{NOTE}

- When the Master unit enter clone mode, repeater step 3 will be able to clone multi radios.
- If the data is not successfully transmitted, turn off both units, make sure the cable connection is correct and repeat the entire operation from the beginning.

\textbf{RESUME FACTORY DEFAULT}

If your radio seems to be malfunctioning because of wrong operation or setup, this function will be able to resume all setup and channels to factory default.

Hold the right band \textbf{SCN} while power on the radio, all channel and function setup will resume to factory default.
Programming Software Installing and Starting (in windows XP system)

Double click "QPS5888UV_S1 setup.exe", then follow the installing instruction.

**INSTALL USB CABLE DRIVER PROGRAMME**

1. Click start menu in computer, under “ALL PROGRAMS” menu, choose and click “USB To Com port” in QPS5888UV_S1 program, install “USB To Com port” driver by indication.

2. Connect the optional PC50 USB Programming cable to USB port in PC with transceiver. (As pic 1)

3. Double click QPS5888UV_S1 shortcut or click QPS5888UV_S1 in procedure index of start menu, choose serial com port as indicated then click OK to start programming software. (As pic 2)

4. According to instruction, select correct "COM Port" (As pic 3), then click "OK" to start programming software.

**NOTE:** Even in same computer, the selective COM Port is different when USB cable connects with different USB port.

You shall install software before connecting the USB cable line. Switch on transceiver before writing frequency. You had better not switch on or off the power supply of transceiver when it is connected with computer, otherwise, it will make transceiver unable to read or write frequency. In this case, you have to turn off programming software, pull out USB cable, then reinsert USB cable and open software, then rechoose COM Port, it will turn into normal operation. Therefore, please connect transceiver with computer after switching on the transceiver. Don't restart transceiver power when it is connected with computer.

This software has product identify system, when firstly installing the software, you have to connect the transceiver, otherwise you cannot start the software.

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### TROUBLE SHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes and Potential Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Power is on, nothing appears on Display.</td>
<td>+ and - polarities of power connection are reversed. Connect red lead to plus terminal and black lead to minus terminal of DC power supply.</td>
</tr>
<tr>
<td>(b) Fuse is blown.</td>
<td>Check and solve problem resulting in blown fuse and replace fuse with new fuse.</td>
</tr>
<tr>
<td>(c) Display is too dim.</td>
<td>Adjust the Dimmer to higher level.</td>
</tr>
</tbody>
</table>
| (d) No sound comes from speaker. | • Squelch is muted. Decrease squelch level.  
• Tone or CTCSS/DCS squelch is active. Turn CTCSS or DCS squelch off. |
| (e) Key and Dial do not function. | Key-lock function is activated. Cancel Key-lock function. |
| (f) Rotating Dial will not change memory channel. | Transceiver is in CALL mode or VFO mode. |
| (g) PTT key is pressed but transmission does not occur. | • Microphone connection is poor. Connect microphone properly.  
• Antenna connection is poor. Connect antenna properly. |

### DEFAULT VALUE FOR FACTORY RESUME

<table>
<thead>
<tr>
<th>Dual Band Mobile Radio</th>
<th>Left band</th>
<th>Right band</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFO frequency</td>
<td>145.15MHz</td>
<td>435.15MHz</td>
</tr>
</tbody>
</table>
| Memory channel 1-758  | CH1: 145.15MHz  
CH2: 235.15MHz  
CH3: 350.15MHz  
CH4: 435.15MHz   | CH1: 145.15MHz  
CH4: 435.15MHz   |
| Offset direction      | --        | --         |
| Offset frequency      | 600KHz    | 5MHz       |
| Step size             | 10KHz     |
| CTCSS code            | --        |
| CTCSS frequency       | 88.5Hz    |
| DCS code              | --        |
| DCS group             | 017N      |
| Output power          | HI        |
| Key Lockout           | OFF       |
| TOT                   | 3         |
| APO                   | OFF       |
| Squelch level         | 4         |
### General

| Frequency Range          | TX: 144~146MHz (EXP: 136~174MHz)  
|                         | 430~440MHz (EXP: 400~490MHz)     |
| RX: 108~180MHz (AM/FM)  | 220~260MHz (FM)                   |
|                         | 400~490MHz (FM)                   |
|                         | 350~399.995MHz (FM)               |
| Number of Channels      | 758 channels                       |
| Channel Spacing         | 25KHz (Wide band)                 |
|                         | 20KHz (Middle band)               |
|                         | 12.5KHz (Narrow band)             |
| Phase-locked Step       | 2.5KHz, 5KHz, 6.25KHz, 10KHz,     |
|                         | 12.5KHz, 15KHz, 20KHz, 25KHz,     |
|                         | 30KHz, 50KHz                       |
| Operating Voltage       | 13.8V DC ±15%                      |
| Squelch                 | Carrier/CTCSS/DCS/5Tone/2Tone/DTMF |
| Frequency Stability     | ±2.5ppm                            |
| Operating Temperature   | -20~+60°C                          |
| Dimensions(WxHxD)       | 139(W)x40(H)x212(D)mm              |
| Weight                  | about 1.14kg                       |

### RX/TX: 144~146MHz, 430~440MHz

#### Receiver (ETSI EN 301 783)

<table>
<thead>
<tr>
<th></th>
<th>Wide band</th>
<th>Narrow band</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(12dB SINAD)</td>
<td>≤0.25μV</td>
<td>≤0.35μV</td>
</tr>
<tr>
<td>Adjacent Channel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selectivity</td>
<td>≥70dB</td>
<td>≥60dB</td>
</tr>
<tr>
<td>Audio Response</td>
<td>+1<del>3dB(0.3</del>3KHz)</td>
<td>+1<del>3dB(0.3</del>2.55KHz)</td>
</tr>
<tr>
<td>Hum &amp; Noise</td>
<td>≥45dB</td>
<td>≥40dB</td>
</tr>
<tr>
<td>Audio distortion</td>
<td></td>
<td>≤5%</td>
</tr>
<tr>
<td>Audio power output</td>
<td>&gt;2W@10%</td>
<td></td>
</tr>
</tbody>
</table>

#### Transmitter (ETSI EN 301 783)

<table>
<thead>
<tr>
<th></th>
<th>Wide band</th>
<th>Narrow band</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output</td>
<td>50W/25W/10W/5W(VHF)</td>
<td>40W/25W/10W/5W(UHF)</td>
</tr>
<tr>
<td>Modulation</td>
<td>16KΦF3E</td>
<td>11KΦF3E</td>
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### 51 GROUPS CTCSS TONE FREQUENCY (HZ)

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The self defined CTCSS tone supports non standard codes. The frequency shall be pre-programmed.

### 1024 GROUPS DCS CODE

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