# User Manual(Draft)

## WT-UV5F Plus

# Features

Frequency range: Rx:136-174/400-480MHz Tx :144-148/420-450Mhz

Friendly man-machine interface, with voice prompts, easier to operate

Dual band, dual display, dual-frequency point waiting

Up to 128 memory channels for programming frequencies

CTCSS/DCS, DTMF signaling

VOX voice-activated transmission,

Emergency alarm and ANI identification through DTMF

8-step step frequency selection

Equipped with the relay pilot and scramble function

SOS emergency alert function

Computer programming, reading and writing frequency password protection

Full keyboard design, manual frequency transmission function

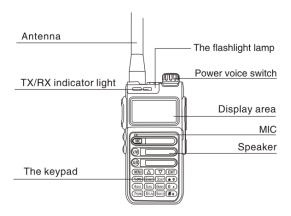
Strong light flashlight lighting function

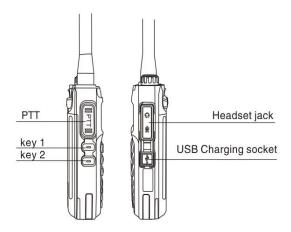
Frequency measurement function(model optional), atanytime to copy other machine frequency

USB charging function, you can use USB charging cable tocharge

If not, please contact your dealer.

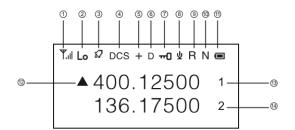
#### **Radio Controls**





#### **Status Indications**

#### **LCD** Icons



| Number | lcon                                   | Radio Status  |  |  |  |  |
|--------|--|---|--|--|--|--|
| 1      | Tal                                    | The number of bars indicates the signal strength.   |  |  |  |  |
|        | H The channel transmits at high power; |   |  |  |  |  |
| 2      | М                                      | The channel transmits at medium power   |  |  |  |  |
|        | L                                      | The channel transmits at low power  |  |  |  |  |
| 3      | Q                                      | When the DTMF is set to DT-ST/DT+ANI/ANI-ST, the symbol appears   |  |  |  |  |
|        | DCS                                    | The current is CDCSS  |  |  |  |  |
| 4      | СТ                                     | The current is CTCSS  |  |  |  |  |
|        | +                                      | The current transmission frequency is the reception frequency plus a frequency bias(Set in menu 24th)         |  |  |  |  |
| 5      | _                                      | The current transmission frequency is the reception frequency minus a frequency bias(Set in menu 24th)        |  |  |  |  |
| 6      | D                                      | Has been set to dual-band double-waiting function, and allows waiting on two frequency bands displayed on the |  |  |  |  |
| 7      | τīΩ                                    | screen at the same time The keyboard lock is locked; Press the [*] to unlock                                  |  |  |  |  |
| 8      | <u>Ч</u>                               | The VOX has been turned on  |  |  |  |  |
| 9      | R                                      | In channel or frequency mode the invert the receiving and transmitting frequencies                            |  |  |  |  |
| 10     | N                                      | The radio work in narrowband mode   |  |  |  |  |
| 11     |  | The number of bars indicates the charge left in the battery.  |  |  |  |  |
| 12     | •                                      | A/ B band pointer   |  |  |  |  |
| 13     | 01                                     | In channel mode, the current channel number for A   |  |  |  |  |
| 14     | 01                                     | In channel mode, the current channel number for B   |  |  |  |  |

#### **Charging the Battery**

Before initial use, fully charge the battery to ensure optimum performance. To charge the battery, do as follows:

- 1. Insert the output connector of the power adapter into the port on the back of the charger.
- 2. Plug the power adapter into a power outlet.
- 3. Place the battery into the charger, and then switch the power outlet on.

To determine the charging status, check the light-emitting diode (LED) indicator on the charger according to the following table:

| Charging Indicator | Charging Status               |
|--------------------|-------------------------------|
| Glows red          | The battery is charging.      |
| Glows green        | The battery is fully charged. |

Flashes red rapidly The battery fails to be charged.

#### View battery

Long press the **[**0**]** key for display battery voltage.

The top right of the screen shows the current battery power icon is as follows:

| lcon  | Battery power |
|-------|---------------|
| (111) | High          |
|       | Medium        |
|       | Low           |
|       | Insufficient  |

# **Basic Operations**

| If you want to           | Do this   |  |  |  |
|--------------------------|---|--|--|--|
|                          | Power On/Off: Turn the [Power/Volume Switch] knob clockwise to turn the               |  |  |  |
|                          | transceiver on and adjust the volume to maximum.                                      |  |  |  |
| Power switch/ volume     | • Turn the [Power/Volume Switch] knob counterclockwise to adjust the volume to the    |  |  |  |
| adjustment               | minimum until the transceiver is turned off.  |  |  |  |
|                          | • If the channel broadcast function is turned on, the current channel number is       |  |  |  |
|                          | broadcast.  |  |  |  |
| Frequency/ Channel mode  | Press [V / M] button, mode switching between frequencies or channel mode.             |  |  |  |
| selection                | • Frequency mode: Manual input frequency and channel storage.                         |  |  |  |
| [V/M] key                | • Channel mode: Press the $[\blacktriangle/\nabla]$ key to select the channel.        |  |  |  |
|                          | Press [A/B] key to switch the band pointer in the upper and lower bands.              |  |  |  |
| A/B Band Selection       | • Press the PTT key to transmit in the band pointed by the pointer.                   |  |  |  |
| [A/B] key                |   |  |  |  |
|                          | After power on, press [V/M] to select the channel mode, press [▲/▼] key to select     |  |  |  |
|                          | the channel, and the channel number on the right side of the screen.                  |  |  |  |
| Selecting a Channel      | • If the channel announcement function is enabled, the intercom will broadcast the    |  |  |  |
|                          | current channel number.   |  |  |  |
|                          | • Call channel mode: After selecting a channel, hold down the [PTT] key to initiate a |  |  |  |
|                          | call to the current channel. Speak into the microphone with normal tone. Initiate a   |  |  |  |
|                          | call, the red LED is on.  |  |  |  |
|                          | • Frequency mode call: Press the [V / M] key to switch to the frequency mode, the     |  |  |  |
|                          | frequency range allowed entering, press the [PTT] button, a call to the current       |  |  |  |
|                          | channel. Speak into the microphone with normal tone. Initiate a call, the red LED is  |  |  |  |
| Making a Call            | on.   |  |  |  |
| [PTT] key                | Receive a call: When you release the [PTT] button, you can answer it without any      |  |  |  |
|                          | action.   |  |  |  |
|                          | When receiving a call, the green LED is on.   |  |  |  |
|                          |   |  |  |  |
|                          | Yo ensure the best reception volume, keep the distance between the                    |  |  |  |
|                          | microphone and the mouth at the time of transmission from 2.5 cm to 5 cm.             |  |  |  |
| SK1 (Side key 2)         | Monitor function: Press and hold the [SK2] button to turn on the monitor function,    |  |  |  |
|                          | and release the [SK] button to cancel the monitor.                                    |  |  |  |
|                          | • Flashlight function: Press [SK1] button, turn on the flashlight function and hand   |  |  |  |
|                          | lamps lit; press again [SK1] key to close the flashlight function.                    |  |  |  |
| SK1 (Side key 1)         | • SOS emergency alert function: Press [SK1] key to open the alarm function on, the    |  |  |  |
|                          | green lights, red lights, hand lights blink, the press [SK1] key, and the alarm is    |  |  |  |
|                          | released again.   |  |  |  |
|                          | Manually lock: Press and hold the [#] button to lock the transceiver.                 |  |  |  |
| Keyboard lock and unlock | Automatically locked: Open automatic keypad lock, keys, knobs without any             |  |  |  |

operation, automatic locking 5 seconds delay.Unlock: Press [#] key, unlock the keypad.

## **Optional Features**

#### **Menu Settings**

You can use the MENU key on the terminal to enter "Menu Settings" to set some common functions. The specific instructions and operation methods are as follows:

| Menu<br>Nº | Function name                      | Enter function                         | First level<br>menu display            | Choose<br>Parameters | Secondary menu<br>Optional Parameters | Confirm Return to standby |
|------------|------------------------------------|--|--|----------------------|---------------------------------------|---------------------------|
| 0          | Squelch level                      | MENU→ 0 →                              | Тин D (П)<br>Squelch 00<br>3           |                      | 0,,9                                  |                           |
|            |                                    |  |  |                      | 2.5KHz                                | -                         |
|            |                                    |  | Ман с 🗆                                |                      | 5.0KHz                                | 1                         |
|            |                                    |  |  |                      | 6.25KHz                               | 1                         |
|            |                                    | MENU→ 1? →                             |  |                      | 10.00KHz                              | → MENU → EXIT             |
| 1          | Step                               | MENU <mark>→ 1</mark> ? →              | Step 01<br>12.5KHz                     |                      | 12.50KHz                              |                           |
|            |                                    |  |  |                      | 20.0KHz                               | 1                         |
|            |                                    |  |  |                      | 25.0KHz                               | 1                         |
|            |                                    |  |  |                      | 50.0KHz                               | 1                         |
|            |                                    |  |  |                      | High                                  |                           |
| 2          | Tx Power                           | MENU⇒ 2 <sub>ABC</sub> →               | Тин р ⊂⊐<br>Tx Power 02                | → MENU → ▲ / ▼       | Middle                                | → MENU → EXIT             |
|            |                                    |  | LOW                                    |                      | Low                                   | 1                         |
|            |                                    |  | ₩н в 📼                                 |                      | OFF                                   | → MENU → EXIT             |
| 3          | Power save                         | MENU→ 3 <sub>DEF</sub> →               | Power save 03<br>0 N                   | → MENU → ▲/▼         | ON                                    |                           |
|            |                                    |  | 🖫 н о 🖂                                |                      | OFF                                   |                           |
| 4          | Vox Level                          | MENU <mark>→ 4</mark> GHI →            | Vox Level 04<br>0 F F                  | → MENU → ▲/▼         | 1,2, 10                               | → MENU → EXIT             |
|            |                                    |  | ₩н в 📼                                 |                      | Wide                                  |                           |
| 5          | 5 Bandwidth MENU→ 5 KG → Bandwidth | Bandwidth 05<br>Width                  |  | Narrow               |                                       |                           |
|            |                                    |  | <b>Т</b> ин D 🖂                        |                      | Bright                                |                           |
| 6          | Backlight                          | MENU <mark>→ 6</mark> mno →            | Backlight 06<br>5Sec                   | →MENU→▲/▼            | 1Sec,2Sec, 10Sec                      | → MENU → EXIT             |
|            |                                    |  | ¶ин D 🖂                                |                      | OFF                                   |                           |
| 7          | Dual Standby                       | MENU <mark>→ 7</mark> pars →           | Dual Standby 07<br>0N                  | → MENU → ▲/▼         | ON                                    |                           |
|            |                                    |  | ₩н в 📼                                 |                      | OFF                                   |                           |
| 8          | Beep Prompt                        |  | Beep Prompt 08<br>0N                   |                      | ON                                    |                           |
|            |                                    |  |  |                      | OFF                                   |                           |
| 9          | Voice                              | MENU <mark>→ 9<sub>WXYZ</sub> →</mark> | Voice 09<br>ON                         | → MENU → ▲ / ▼       | ON                                    |                           |
|            |                                    |  | 🕅 н р 📼                                |                      | OFF                                   |                           |
| 10         | Tx over time                       | menu <mark>→ 1</mark> ? 0 ⊔ →          | Tx over time 10<br>120S                | → MENU → ▲ / ▼       | 15,30,600                             | → MENU → EXIT             |
|            | Rx DCS                             | Rx DCS MENU→ 12 12 →                   | Тін     D       RxDCS     11       OFF | → MENU → ▲/ ▼        | OFF                                   |                           |
| 11         |                                    |  |  |                      | D023N,,D754I                          |                           |
|            |                                    |  |  |                      |                                       | .1                        |
|            | Rx CTCSS                           |  | ¶∎ H D ⊂<br>Rx CTCSS 12<br>OFF         | →MENU→▲/▼            | OFF                                   |                           |
| 12         |                                    |  |  |                      | 67.0HZ,,254.1HZ                       |                           |
| 13         | Tx DCS                             |  | Tx DCS 13<br>OFF                       |                      | OFF                                   |                           |
|            |                                    |  |  |                      | D023N,,D754I                          | → MENU → EXIT             |
|            | Tx CTCSS                           |  | Тнь а                                  | → MENU → ▲/▼         | OFF                                   |                           |
| 14         |                                    |  |  |                      | 67.0HZ,,254.1HZ                       | → MENU → EXIT             |
|            |                                    |  |  |                      | OFF                                   |                           |
| 15         | DTMFST                             | MENU→ 1? 5 JKL →                       | DTMFST 15<br>OFF                       | →MENU→▲/▼            | DT-ST                                 |                           |

Quanzhou Wanneton Electronic&Technology Co.,Ltd Baijie International Centre ,Qiaonan District, Chidian Town, Quanzhou, China

|    |              |   |  |                | ANI-ST         |                                       |
|----|--------------|---|--|----------------|----------------|---------------------------------------|
|    |              |   |  |                | DT+ANI         |                                       |
|    |              | MENU→1  | <sup>™н р</sup> ⊂<br>R-TONE 16               | → MENU → ▲ / ▼ | 1000hz,1450hz, |                                       |
| 16 | R-TONE       |   | 1000hz                                       |                | 1750hz,2100hz  |                                       |
| 17 | S-CODE       | MENU→ 1? 7pars →  | ™н р ⊂<br>S-CODE 17<br>1                     | → MENU → ▲/▼   | 1,2,,15        | → MENU → EXIT                         |
|    |              |   | H D 🗇  |                | ТО             |                                       |
| 18 | Scan Mode    | MENU <mark>→</mark> 1? 8 τυν →                          | ™н D ⊂<br>Scan Mode <b>18</b><br>ТО          |                | СО             | → MENU → EXIT                         |
|    |              |   |  |                | SE             |                                       |
|    |              |   |  |                | OFF            |                                       |
| 19 | PTT-ID       | MENU→ 1? 9wxrz→   | Тин в 🗇                                      | →MENU→▲/▼      | вот            |                                       |
| 19 | PTT-ID       |   | PTT-ID 19<br>OFF                             |                | EOT            |                                       |
|    |              |   |  |                | BOTH           |                                       |
| 20 |              | MENU→ 2 <sub>ABC</sub> 0 →                              | <sup>™н р</sup><br>MDF-А 20                  | →MENU→▲/▼      | Frequency      |                                       |
| 20 | MDF-A        |   | Frequency                                    |                | Name           |                                       |
|    |              | MENU→ 2 <sub>ABC</sub> 1? →                             | ™н р ⊂⊐<br>MDF-В 21                          |                | Frequency      | → MENU → EXIT                         |
| 21 | MDF-B        |   | MDF-B 21<br>Frequency                        |                | Name           |                                       |
|    |              |   | Т н р С                                      |                | OFF            |                                       |
| 22 | Busy Lockout | MENU <mark>⇒</mark> 2 <sub>abc</sub> 2 <sub>abc</sub> ⇒ | BusyLockout 22<br>OFF                        |                | ON             | $\rightarrow$ MENU $\rightarrow$ EXIT |
|    |              |   | Тін D 🗇                                      |                | OFF            |                                       |
| 23 | Key AutoLock | MENU <mark>→</mark> 2 <sub>ABC</sub> 3 <sub>DEF</sub> → | Key Auto Lock 23<br>OFF                      | →MENU→▲/▼      | ON             |                                       |
|    |              |   |  |                | None           |                                       |
| 24 | Direction    | MENU <b>→ 2</b> abc 4 ghi ➡                             | Тин р ⊂<br>Direction 24                      | → MENU → ▲ / ▼ | Plus           |                                       |
| 24 | Direction    |   | None   |                | Minus          |                                       |
| 25 | Offset       | MENU <mark>→</mark> 2abc 5 jkl →                        | Тено<br>Offset 25                            | →MENU→▲/▼      | 00.000,,99.998 | → MENU → EXIT                         |
| 26 | Memory       |   | 00.000<br>Тін р СП<br>Memory 26              | → MENU → ▲/▼   | 1,,128         | → MENU → EXIT                         |
| 20 | including    |   | 020  |                | ,, -           |                                       |
| 27 | Delete       | MENU - 2 ABC 7 PORS -                                   | Тн D<br>Delete 27<br>020                     | → MENU → ▲/▼   | 1,,128         |                                       |
|    |              |   | ₩н р 🗇                                       |                | On site        |                                       |
| 28 | Alarm Mode   |   | Alarm Mode 28<br>On site                     | →MENU→▲/▼      | Send sound     |                                       |
|    |              |   |  |                | Send code      |                                       |
|    |              | MENU 2 ABC 9WXYZ  | ТАIL 29                                      | →MENU→▲/▼      | OFF            |                                       |
| 29 | TAIL         |   | OFF  |                | ON             |                                       |
|    |              | MENU→ 3 def 0 →   | ™н о<br>PROGER 30                            | →MENU→▲/▼      | OFF            |                                       |
| 30 | PROGER       |   | OFF  |                | ON             |                                       |
|    |              |   | Тно<br>Language 31                           |                | Chinese        | → MENU → EXIT                         |
| 31 | Language     | MENU→ 3 def 1? →  | English                                      |                | English        |                                       |
|    |              | MENU <mark>→</mark> 3 def 2 abc →                       | Терета Пара Пара Пара Пара Пара Пара Пара Па |                | VFO            |                                       |
| 32 | Reset        |   | VF0  |                | ALL            |                                       |

# **Optional Features**

| Function Name        | Description  |  |  |  |
|----------------------|--|--|--|--|
| Cotting the          | Setting the CTCSS/CDCSS Feature The Continuous Tone-Coded Squelch System (CTCSS)/ Continuous Digital-Coded                       |  |  |  |
| Setting the          | Squelch System (CDCSS) feature allows the radio to filter out unwanted voice on the current channel. You can                     |  |  |  |
| CTCSS/CDCSS Feature  | request your dealer to enable this feature.  |  |  |  |
|                      | The Time-out Timer (ToT) feature allows the radio to stop transmission automatically and keep beeping when the                   |  |  |  |
| Time and Times       | period reset by your dealer expires. To stop beeping, release the [PTT] key. You need to wait for a certain period               |  |  |  |
| Time-out Timer       | (also preset by your dealer) to start transmission again. This feature aims to prevent a radio user from occupying a             |  |  |  |
|                      | channel for an extended period and to avoid radio damage due to overheating.   |  |  |  |
|                      | Your radio has a unique circuit designed to dramatically extend the life of the battery. If you do not transmit and              |  |  |  |
| Automatic Power Save | do not receive an incoming call, or no button and knob operation within 3 seconds, your radio switches to the                    |  |  |  |
| Feature              | Power Save mode. The radio is still able to receive transmissions in this mode.  |  |  |  |
|                      | When the battery is low, it can be charged in time by voice reminder.  |  |  |  |
| Low battery alarm    | When the battery is too low, the transmission will be prohibited.  |  |  |  |
|                      | The Scan feature allows you to listen to activities on a channel, keeping track of your team members. With this                  |  |  |  |
|                      | feature enabled, the radio searches the scan list preset for the current channel and stays on a channel with                     |  |  |  |
|                      | activities.  |  |  |  |
| Scan                 | In standby mode, press and hold the [#] key to turn on the scan function.  |  |  |  |
|                      | After opening the scan, the terminal will scan according to the scan list, the channel scanning when there is an                 |  |  |  |
|                      | event; will stay on the channel to listen to understand the current status of activities related members.                        |  |  |  |
|                      | The scan list will be edited by the programming software.  |  |  |  |
|                      | The Busy Channel Lockout feature allows the radio to keep beeping when you press and hold [PTT] key when the                     |  |  |  |
| Busy Channel Lockout | current channel is occupied by other radios. When the current channel is idle, you can transmit by pressing and                  |  |  |  |
|                      | holding [PTT] key.   |  |  |  |
| Frequency            | under the standby mode, press function [MENU+*/ky], the current frequency can be demodulated when the signal is received. If the |  |  |  |
| measurement          | current frequency is attached with a sub-audio, the sub-audio will show on the screen.   |  |  |  |
| function             |  |  |  |  |
|                      | Select Backlight, and select one of the following as required:   |  |  |  |
| Set the backlight    | • Bright: The backlight stays always on.   |  |  |  |
|                      | • Timed: The backlight automatically goes out if no operation or activity is performed with in the preset period.                |  |  |  |

The functions supported by the radio are shown in the table below.

# **Detailed Instructions of Some Important Functions**

# Voice Operated Transmit

The Voice Operated Transmit (VOX) feature allows you to transmit voice without pressing and holding the [PTT] key. The radio automatically transmits voice when the volume reaches the preset level. A higher gain level indicates lower sensitivity, which requires higher volume for triggering transmission.

Standby mode, press [MENU] [4] (or press the [▲]/[▼] key) to enter "Vox Level", press [MENU] selection:

- Turn off the function: Press [▲]/[▼] key and select OFF to turn off the voice operated transmit function.
- Turn on the function: Press [▲]/[▼] key to select the level value of 1-10, and then select the appropriate level. Press the [MENU] button to save the settings and turn on the voice operated transmit function.

# Dual Standby

When in dual standby mode, the radio can receive the A or B channel.

Standby mode, Press [MENU][7] (or press the [▲]/[▼] key) to enter "Dual Standby", Press[MENU]selection:

- Turn off the function: Press [▲]/[▼] key and select OFF to turn off the dual standby function.
- Turn on the function: Press [▲]/[▼] key and select ON to turn on the dual standby function.

In dual standby mode, the radio is in the scanning state of main and secondary channels. Even if the power saving

function is enabled, the power saving function is still invalid, and the standby time of the interphone will be shortened.

#### Memory channel

- 1) When the transceiver works in the channel mode, it is able to copy all the parameters except the channel names into the specified channel.
- 2) When the transceiver works in the frequency mode, set the offset frequencies, shift direction and other parameter ahead, and then save into the specified channels.
- 3) Same frequency saved in one channel
- For example, specified channel CH-20, same frequency 435.125MHz, RX CTCSS 67Hz, TX CTCSS 67Hz.

Setp 1, input [4][3][5][1][2][5] in the frequency mode.

Setp 2, press [MENU]+[1][2]+ [MENU] to start setting RX CTCSS, use [UP]/[DN] to select 67.0, and then press [MENU] to confirm.

Setp 3: press [MENU]+[1][4]+ [MENU] to start setting TX CTCSS, use [UP]/[DN] to select 67.0, and then press [MENU] to confirm.

Setp 4: press [MENU]+[2][6]+ [MENU], then use  $[\blacktriangle]/[\nabla]$  key to selecting the desired channel CH-20 to memory. Finally, press [MENU] to confirm and finish.

lf tone is not needed, then the step 2 and 3 are not necessary.

4) Memory channel in different TX and RX frequencies. This is working for repeating communication.

For example, specified channel CH-20, RX frequency 435.125MHz, TX frequency 445.125MHz, RX CTCSS 67Hz, with TX CTCSS 67Hz.

Setp 1, input [4][3][5][1][2][5] in the frequency mode.

Setp 2, press [MENU]+[2][5]+ [MENU] to set the offset frequency 10.000MHz.

Setp 3, press [MENU]+[2][4]+ [MENU] to set the direction to "Plus".

Setp 4: press [MENU]+[2][6]+ [MENU], then use  $[\blacktriangle]/[\nabla]$ key to selecting the desired channel CH-20 to memory. Finally, press [MENU] to confirm and finish.

#### Technical Specifications

Frequency Range

Quanzhou Wanneton Electronic&Technology Co.,Ltd Baijie International Centre ,Qiaonan District, Chidian Town, Quanzhou, China

|                  | Channel Capacity   |          | 128                          |  |  |  |  |
|------------------|--|----------|------------------------------|--|--|--|--|
|                  | Channel Spacing  |          | 12.5kHz                      |  |  |  |  |
|                  | Input Voltage  |          | 7.4 VDC±10%                  |  |  |  |  |
|                  | Battery  |          | 1400mAH(Li-Ion)              |  |  |  |  |
|                  | Battery Life<br>(5-5-90 Duty Cycle, High TX Power)   |          | About 14 Hours               |  |  |  |  |
|                  |  | Stand-by | ≤85mA                        |  |  |  |  |
|                  | Current Drain  | Receive  | ≤450 mA                      |  |  |  |  |
|                  |  | Transmit | ≤1.8A                        |  |  |  |  |
|                  | Frequency Stability  |          | ±2.5ppm                      |  |  |  |  |
|                  | Operating Temperatur   | re       | -30°C to +60°C               |  |  |  |  |
|                  | Antenna Impedance  |          | 50Ω                          |  |  |  |  |
|                  | Radio Dimensions<br>( with standard battery, without antenna)  |          | 121×61×33mm                  |  |  |  |  |
|                  | Radio Weight<br>(with antenna & standard battery)  |          | 223g                         |  |  |  |  |
|                  | RF Output Power  |          | 4W                           |  |  |  |  |
| Ţ.               | FM Modulation  |          | 11K0F3E@12.5KHz              |  |  |  |  |
| Transmitter Part | Spurious Emission  |          | -36dBm < 1GHz, -30dBm > 1GHz |  |  |  |  |
| nitte            | FM Hum & Noise   |          | 40dB @12.5KHz                |  |  |  |  |
| er Pa            | Audio Distortion   |          | ≤5%                          |  |  |  |  |
| a.               | Modulation Limiting  |          | ±2.5 KHz@12.5 KHz            |  |  |  |  |
|                  | Audio Response (300-   | 3000Hz)  | +1~3dB                       |  |  |  |  |
|                  | Receive Sensitivity Adjacent Channel Selectivity Inter Modulation and Rejection Conducted Spurious Emission FM Hum & Noise |          | 0.25µV (12dB SINAD)          |  |  |  |  |
| -                |  |          | ,≥55dB@12.5KHz               |  |  |  |  |
| lecei            |  |          | ≥55dB@12.5KHz                |  |  |  |  |
| ver l            | Conducted Spurious Emission  |          | ≤-57dB @12.5KHz              |  |  |  |  |
| Part             | FM Hum & Noise   |          | ≥40dB @12.5KHz               |  |  |  |  |
|                  | Rated Audio Power Output   |          | 1.0W @16 ohms                |  |  |  |  |
|                  | Rated Audio Distortion   |          | ≤5%                          |  |  |  |  |

### **ATTENTION**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

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