

## Instructions for Dual Band Vehicle Transceiver

### Remind:

Purchase and use of this equipment belongs to set up using the radio (station) behavior, we must apply the law to establish the station approval procedures to obtain a radio station license. When using the machine, it should work in accordance with the station license approved projects. Arbitrarily set using a radio (station), interference of radio services, not according to the approved project work and other violations of radio regulations by the radio management organizations subject to administrative penalties. Radio serious violations may violate the "Criminal Law" Section 288 or "Security Administration Punishment Law" Article 28, will be sentenced to three years imprisonment, criminal detention or control, concurrently or fined or punished by the criminal the public security organ shall impose administrative penalties detention.

Thank you very much for purchasing our products. Our company devotes to supply the best quality and expeditionary vehicle transceiver. We believe that you would be satisfied with our products.

### Note:

Please obey following rules, so that can avoid fire, the harm on person or damage on vehicle transceiver.

- When you are driving, please don not try to setting the vehicle transceiver, otherwise it will lead to dangerous consequences.
- This vehicle transceiver should be connected to 13.8V DC power supply! Do not use 24V power supply to operate this vehicle transceiver
- Please do not transmit by high power for a long time, otherwise the vehicle transceiver will be over-heated and the lifespan will be shortened.
- Please do not put vehicle transceiver under the sun overtime, and do not put in beside the heating equipment.
- Please do not put the vehicle transceiver in the place where is dusty and moist, and do not put in one the uneven flat.
- If there is smell or smog from vehicle transceivers, please turn off the power and contact the dealer.
- Using vehicle transceiver when driving may violate traffic rules, please obey local traffic rules.

### Unpacking and Inspection:

Welcome to use radio. Before using, we suggest you:

- Please check the packaging of this product if there is damage.

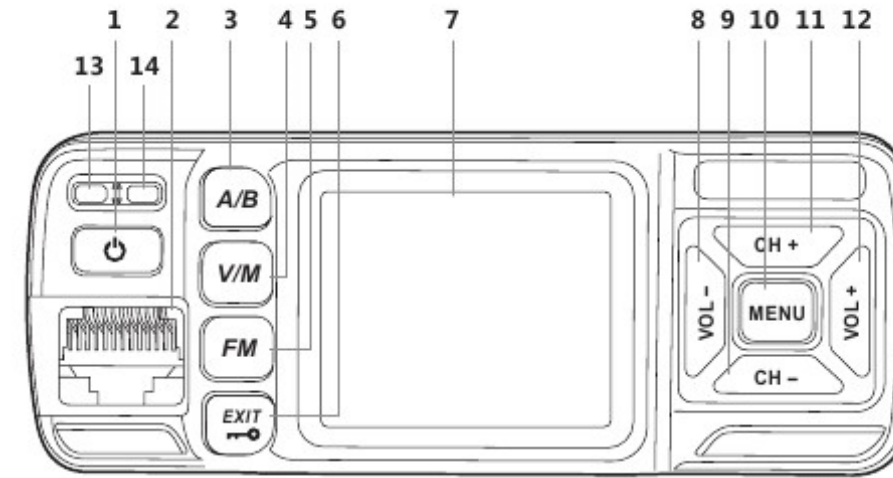
- Please carefully open the box checking whether the products are as following listed table.

- If there is any damage or lost of product and its accessories during transportation, please contact dealer immediately.

#### Standard Configuration

| Attachment              | Quantity |
|-------------------------|----------|
| Machine body            | 1        |
| Hand microphone         | 1        |
| Assembly supporting rac | 1        |
| Power wire              | 1        |
| Screws                  | 1        |
| Instructions            | 1        |

### Panel Description



- 1、Power switch      2、Hand microphone/ Frequency writing connection hole  
3、Upper and lower frequency switching      4、Working mode switch  
5、Radio button      6、Quit/locking key      7、Display screen  
8、Volume down      9、Down      10、function button      11、Up  
12、Volume up      13、Transmitting indicator      14、Receiving indicator

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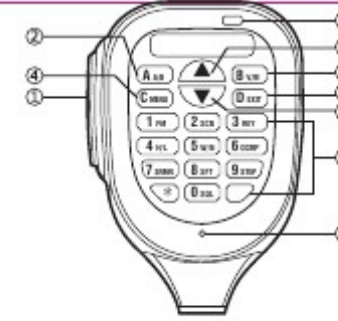
### Display screen

| Picture | Instruction                                                                                                                                       |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|         | When transmitting,the screen indicates transmitting signal strength and when receiving, the screen indicates receiving signal strength.           |
|         | In channel mode, channel serial number is shown under the frequency and channel name.When setting the menu, screen shows the current menu number. |
|         | Indicating receiving and transmitting frequency, FM frequency, menu, menu value and other status.                                                 |
|         | Indicating CTCSS, when it shows during transmitting, it indicates CTCSS is during transmitting.                                                   |
|         | Indicating digital sound, when it shows during transmitting, it indicated DCS is during transmitting.                                             |
|         | Indicating companding function is opening.                                                                                                        |
|         | When this symbol shows under the frequency mode, it indicates the transmitting frequency is receiving frequency plus a slip frequency.            |
|         | When this symbol shows under the frequency mode, it indicates transmitting frequency is receiving frequency plus a slip frequency.                |
|         | This symbol shows when repeater function is opening.                                                                                              |
|         | This symbol is undefined.                                                                                                                         |
|         | The receiving and transmitting frequency is reversed when in frequency and channel mode.                                                          |
|         | This symbol shows when channel working in narrowband way.                                                                                         |
|         | This symbol is undefined.                                                                                                                         |
|         | This symbol is undefined.                                                                                                                         |
|         | This symbol shows when keyboard is locked, and it will be relived when long pressing "EXIT".                                                      |
|         | Turn on the FM radio.                                                                                                                             |
|         | Indicating the current transmitting frequency is a high frequency.                                                                                |
|         | Indicating the current transmitting frequency is a middle frequency.                                                                              |
|         | Indicating the current transmitting frequency is a low frequency.                                                                                 |
|         | Indicating the current working frequency of transmitting, receiving and standby.                                                                  |

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### Hand microphone

1. [PTT]: Transmitting
2. [A/B]: A/B channel switch, character"A"
3. [B V/M]: Working mode switch, character"B"
4. [C MENU]: Function key, character"C"
5. [D EXIT]: Exit key, character"D"
6. [↑]: Frequency, channel and menu up
7. [↓]: Frequency, channel and menu down
8. Number key: Number"0~9, \*, #"
9. Microphone: Press[PTT], talk to microphone
10. Transmitting indicator: Transmitting indicator



### Hand microphone shortcut key operation instruction

| Function                         | Operation process                                                                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency adjusting              | Press[A/B] → ↑/↓key to adjust frequency → or input frequency needed directly by keyboard.                                                               |
| Working mode selecting           | Press[B V/M], (once the key pressed, the working mode is circulated in frequency mode → channel frequency+channel number → channel name+channel number) |
| FM radio                         | [C MENU] → [1FM] → ↑(channel selection) → ↓ (channel selection) , press[D EXIT]to exit.                                                                 |
| Frequency scanning               | [C MENU] → [2SCN], press↑/↓can change up scanning or down scanning → [C MENU] (stop in current channel) or [D EXIT](stop in current scanning channel)   |
| Reverse frequency setting        | [C MENU] → [3REV], start receiving/transmitting exchanging and reliving: same movement                                                                  |
| Transmitting frequency adjusting | [C MENU] → [4H/L] → ↑(up)/↓(down) → [C MENU]exit.                                                                                                       |
| Channel working bandwidth        | [C MENU] → [5W/N] → ↑(up)/↓(down) → [C MENU]exit.                                                                                                       |
| Companding function              | [C MENU] → [6CMP] → ↑(up)/↓(down) → [C MENU]exit.                                                                                                       |
| Encryption function              | [C MENU] → [7SRMR] → ↑(up)/↓(down) → [C MENU]exit.                                                                                                      |
| Slip frequency direction         | [C MENU] → [8SFT] → ↑(up)/↓(down) → [C MENU]exit.                                                                                                       |

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| Function               | Operation process                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Step frequency setting | [C MENU] → [9STEP] → ↑(up)/↓(down) (2.5K、5.0K、6.25K、10.0K、12.5K、25.0K、50K) → [C MENU]exit.                                                                            |
| SQL adjusting          | [C MENU] → [0SQL] → ↑/↓key (SQ0~SQ9) → [C MENU]exit. (SQ0 is SQL opening, there is rustle in the background, SQ1 is the most sensitive one, and SQ9 is the lowes one) |

### Menu function setting operation

Menu setting step:[MENU key]→[MENU key]→[CH+ key]or[CH- key]to select→[MENU key]enter to select items→[CH+ key]or[CH- key] to adjust parameters→[MENU key] to storage→[EXIT key]exit.The right number in the screen is the item number:

| Menu | Function description | Second level menu displaying character | Second level menu setting description and pre-set(○)                                                                |
|------|----------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 01   | R-CTC                | OFF<br>67.0~254.1Hz                    | No CTCSS<br>CTCSS standard series                                                                                   |
| 02   | R-DCSN               | OFF<br>D023N~D754N                     | No CTCSS<br>Digital sound correcting code standard series                                                           |
| 03   | R-DCSI               | OFF<br>D023I~D754I                     | No CTCSS<br>Receive digital sound radix-minus-one complement standard series                                        |
| 04   | R-MOD                | QT<br>QT+DTMF                          | The horn opens when CTCSS frequency matches. ○<br>The horn opens when CTCSS frequency and DTMF both can be matched. |
| 05   | T-CTC                | OFF<br>67.0~254.1Hz                    | No CTCSS<br>CTCSS standard series                                                                                   |
| 06   | T-DCSN               | OFF<br>D023N~D754N                     | No CTCSS<br>Digital sound positive code standard series                                                             |
| 07   | T-DCSI               | OFF<br>D023I~D754I                     | No CTCSS<br>Digital sound inverse code standard series                                                              |
| 08   | T-DTM1               | OFF<br>DTMF1~8                         | Press PTT to stop transmit code ○<br>Press PTT to transmit DTMF code                                                |
| 09   | T-DTM2               | OFF<br>DTMF1~8                         | Loose PTT to stop transmit code ○<br>Loose PTT to transmit DTMF code                                                |

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| Menu | Function description | Second level menu displaying character                       | Second level menu setting description and pre-set(○)                                                                                                                                                                                                                                |
|------|----------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10   | POWER                | HIGH<br>MIG<br>LOW                                           | Transmit with high frequency ○<br>Transmit with middle frequency<br>Transmit with low frequency                                                                                                                                                                                     |
| 11   | W/NA                 | WIDE<br>NARR                                                 | Wide band working ○<br>Narrow band working                                                                                                                                                                                                                                          |
| 12   | COMP                 | OFF<br>ON                                                    | No companding function<br>Open companding function(improving communication clarity)                                                                                                                                                                                                 |
| 13   | SRMR                 | OFF<br>ON                                                    | No voice encryption function ○<br>Open voice encryption function(to make voice encryption on communication)                                                                                                                                                                         |
| 14   | SFT                  | OFF<br>ADD<br>SUB                                            | In the frequency mode, transmitting frequency and receiving frequency have not slip frequency ○<br>In the frequency mode, transmitting frequency is receiving frequency plus slip frequency<br>In the frequency mode, transmitting mode is receiving frequency minus slip frequency |
| 15   | OFFSET               | 00.0000-90.0000                                              | In the frequency mode, the slip frequency between transmitting and receiving frequency ○00.0000Mhz                                                                                                                                                                                  |
| 16   | STEP                 | 2.50K<br>5.00K<br>6.25K<br>10.00K<br>12.50K<br>25K<br>50.00K | In the frequency mode, press UP and DOWN to change frequency step value                                                                                                                                                                                                             |
| 17   | CH-MEM               | 001~128                                                      | When storing channel, it indicates the storage channel number                                                                                                                                                                                                                       |
| 18   | CH-DEL               | 001~128                                                      | When deleting channel, it indicates the deleting channel number                                                                                                                                                                                                                     |
| 19   | LED-SW               | AUTO<br>NO                                                   | In the standby mode, do not have any operation, the backlight will close automatically<br>In the standby mode, backlight is on                                                                                                                                                      |
| 20   | BEEP                 | OFF<br>ON                                                    | Close operation warning tone<br>Open operation warning tone ○                                                                                                                                                                                                                       |

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| Menu | Function description | Second level menu displaying character | Second level menu setting description and pre-set(○)                                                      |
|------|----------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 21   | RING                 | OFF                                    | Close calling warning tone ○                                                                              |
|      |                      | 1~9S                                   | When receiving matched signal, machine sends out voice, when the voice times out, the horn will be opened |
|      |                      |                                        |                                                                                                           |
| 22   | BCL                  | OFF                                    | When the channel is occupied, it's allowed to transmit ○                                                  |
|      |                      | ON                                     | When the channel is occupied, it's not allowed to transmit                                                |
| 23   | TOT                  | OFF                                    | There is not time limit when continuous transmitting                                                      |
|      |                      | 30S~600S                               | When pressing PTT key, the transmitting time is the longest ○120s                                         |
| 24   | TONE                 | 1000Hz                                 | When transmitting, press EXIT key to adjust frequency and active relay station                            |
|      |                      | 1450Hz                                 | When transmitting, press EXIT key to adjust frequency and active relay station                            |
|      |                      | 1750Hz                                 | When transmitting, press EXIT key to adjust frequency and active relay station                            |
|      |                      | 2100Hz                                 | When transmitting, press EXIT key to adjust frequency and active relay station                            |
| 25   | DTM-TM               | 50MS                                   | When sending DTMF code automatically, the interval time between code and code                             |
|      |                      | 100MS                                  | When sending DTMF code automatically, the interval time between code and code                             |
|      |                      | 150MS                                  | When sending DTMF code automatically, the interval time between code and code                             |
|      |                      | 200MS                                  | When sending DTMF code automatically, the interval time between code and code                             |
| 26   | SQL                  | 0~9                                    | 0 is to open SQL, the SQL can be opened when the 1~9 value bigger, and signal strength is bigger ○SQL4    |
| 27   | RPT                  |                                        | This function is not opened yet                                                                           |
| 28   | DTMF                 | 8sets                                  | Send out these codes when need                                                                            |
| 29   | ANI_ID               |                                        | Its to observe machine's setting(only can be written by frequency writing program)                        |
| 30   | AB-SW                | OFF                                    | Single band transmit, single band receive stand by                                                        |
|      |                      | ON                                     | Dual band transmit, Dual band receive stand by○                                                           |

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| Menu | Function description | Second level menu displaying character | Second level menu setting description and pre-set(○) |
|------|----------------------|----------------------------------------|------------------------------------------------------|
| 31   | MODE                 | A&B-MODE<br>SCAN-MODE                  |                                                      |
| 32   | LANGUAGE             | ENGLISH                                |                                                      |
|      |                      |                                        |                                                      |
|      |                      | ±                                      |                                                      |
| 33   | RESET                | REST-NO                                | Do not use menu initialization                       |
|      |                      | REST-SET                               | Menu initialization                                  |
|      |                      | REST-ALL                               |                                                      |
| 34   | SS-COLOR             | blue                                   |                                                      |
|      |                      | Sky-blue                               |                                                      |
|      |                      | black                                  |                                                      |
|      |                      | white                                  |                                                      |
|      |                      | purple                                 |                                                      |
|      |                      | red                                    |                                                      |
|      |                      | emerald                                |                                                      |
|      |                      |                                        |                                                      |
| 35   | SS-STR-COLOR         | blue                                   |                                                      |
|      |                      | Sky-blue                               |                                                      |
|      |                      | black                                  |                                                      |
|      |                      | white                                  |                                                      |
|      |                      | purple                                 |                                                      |
|      |                      | red                                    |                                                      |
|      |                      | emerald                                |                                                      |
|      |                      |                                        |                                                      |
| 36   | UP-COLOR             | blue                                   |                                                      |
|      |                      | Sky-blue                               |                                                      |
|      |                      | black                                  |                                                      |
|      |                      | white                                  |                                                      |
|      |                      | purple                                 |                                                      |
|      |                      | red                                    |                                                      |
|      |                      | emerald                                |                                                      |
|      |                      |                                        |                                                      |
| 37   | UP-STR-COLOR         | blue                                   |                                                      |
|      |                      | Sky-blue                               |                                                      |
|      |                      | black                                  |                                                      |
|      |                      | white                                  |                                                      |
|      |                      | purple                                 |                                                      |
|      |                      | red                                    |                                                      |
| 38   | DN-COLOR             | emerald                                |                                                      |
|      |                      | blue                                   |                                                      |

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| Menu | Function description | Second level menu displaying character | Second level menu setting description and pre-set(○) |
|------|----------------------|----------------------------------------|------------------------------------------------------|
|      |                      | Sky-blue                               |                                                      |
|      |                      | black                                  |                                                      |
|      |                      | white                                  |                                                      |
|      |                      | purple                                 |                                                      |
|      |                      | red                                    |                                                      |
|      |                      | emerald                                |                                                      |
|      |                      |                                        |                                                      |
| 39   | SS-STR-COLOR         | blue                                   |                                                      |
|      |                      | Sky-blue                               |                                                      |
|      |                      | black                                  |                                                      |
|      |                      | white                                  |                                                      |
|      |                      | purple                                 |                                                      |
|      |                      | red                                    |                                                      |
|      |                      | emerald                                |                                                      |

Selected calling team calling and group calling

This machine equipped with function of sending and editing personal code as well as DTMF decoding. To achieve selected calling and group calling without using other equipment.

Note: When using any other radio in the group, should edit different individual code.

Following parameters should be set when using this function:

1.Set up the reception mode(function menu no.4) is QT+ANI ( CTCSS+ individual code).

2.Set ringing time(function menu no.21).

Group calling function

Press[PTT]key to transmit, input[\*]key from keyboard.(input[\*]digits is same as machine's ID code).

For example: If the ID code of called party is [12345], then press[PTT] key to transmit, input five [\*] key from keyboard. All the called party who have same digits will have ring.

Team calling function

Press [PTT] key to transmit, input[team number]+[\*]key.(input digits is same as machine's ID code)

For example: if the ID code of called party has [12345] [12789] [23888] then press [PTT] key to transmit, then input[12]+[\*\*\*]key. All the called party who have [12] in the beginning will have ring, called party who has [23] in the beginning will not have ring.

Selected calling function

Press [PTT] key to transmit, input the called party's individual code from keyboard.

For example: if the called party's ID code has [12345], then press[PTT] key to transmit, input[12345]key. All selected radio will have ring.

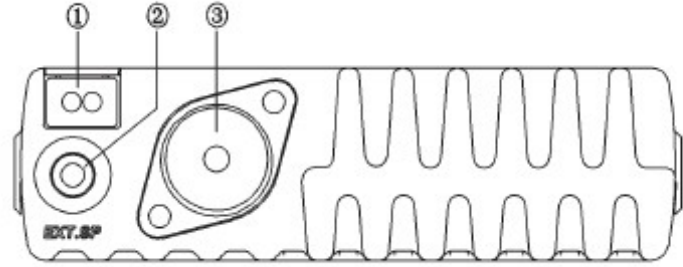
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <p>Remote control function</p> <p>Before using remote control function, the machine should be active, at the same time, should set radio's ID code that is main master code. All the setting only can be done by frequency writing program.</p> <p>1. Open frequency writing program.</p> <p>2. Vehicle transceiver connects with PC through frequency writing cable. (8 needle crystal head insert to hand microphone port)</p> <p>The precondition of using remote control function is to set ID code. Different remote control function should set different control code.</p> <p>As following picture:(following value is for reference)</p> <div>  <ul style="list-style-type: none"> <li>● In the above table, the longest control code has 7 digits, the shortest has 1 digit. The length of control code should within 3-5 digits.</li> <li>● The control code in the above only can be set by frequency writing program provided by our company.</li> <li>● The opening code, stunning code, shaking code and monitoring code should begin with "#",</li> <li>● Master ID code should be set the same with machine ID code.</li> <li>● If don't want to be controlled, the control code is not need to input.</li> </ul> </div> <p>Remote stunning(prohibit to be transmitted by controlled party)</p> <p>Press PTT+#33(stunning code)+12345 master control ID code,then loose PTT.</p> <p>If the stunning code of controlled party is same as master ID code, the remote stunning function is prohibited.</p> <p>Remote shaking code(the controlled party is prohibited to receiving and transmitting)</p> <p>Press PTT+#44(shaking code)+12345 master ID code, then loose PTT.</p> <p>If controlled party's shaking code is same as master's ID code, the remote shaking function is prohibited.</p> <p>Remote monitoring(monitor the controlled partys environment voice)</p> <p>Press PTT+#22(monitoring code)+12345 master ID code, then loose PTT.</p> <p>If the controlled party's monitoring code is same as master's ID code, then the controlled party will transmit automatically and start monitoring function.(monitoring time is 7 seconds)</p> <p>Remote reliving stunning and shaking</p> <p>Press PTT+#77(opening code)+12345 (master ID code) , then loose PTT.</p> <p>If the controlled party's opening code is same as master's ID code, then the function will be relived.</p> |  |  |  |
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <p>Alarm</p> <p>Press PTT+119 alarming code,then loose PTT.</p> <p>If the controlled party's alarming code is same the sending one, then the controlled starts alarm.</p> <p>If adding master's ID code or others in the end of alarm code, then the controlled party will display master's ID code and others after starts alarm, so that the controlled party can know which party starts alarm.</p> |                                                                                                                                                                      |            |
| Specification                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                      |            |
| Technical data                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                      |            |
| Working frequency scope                                                                                                                                                                                                                                                                                                                                                                                | A model: VHF1: 136.000MHz – 174.000MHz<br>B model: VHF2: 220.000MHz – 250.000MHz<br>C model: UHF1: 350.000MHz – 390.000MHz<br>D model: UHF2: 400.000MHz – 470.000MHz |            |
| System                                                                                                                                                                                                                                                                                                                                                                                                 | F3E (FM)                                                                                                                                                             |            |
| Antenna impedance                                                                                                                                                                                                                                                                                                                                                                                      | 50Ω                                                                                                                                                                  |            |
| Frequency stability                                                                                                                                                                                                                                                                                                                                                                                    | ±2.5ppm @ -10℃ ~ +60℃                                                                                                                                                |            |
| Working environment temperature                                                                                                                                                                                                                                                                                                                                                                        | -20℃ ~ +60℃ (-4°F ~ +140°F)                                                                                                                                          |            |
| Input voltage                                                                                                                                                                                                                                                                                                                                                                                          | Direct current 13.8V (±15%) , negative grounding                                                                                                                     |            |
| Output power                                                                                                                                                                                                                                                                                                                                                                                           | High power: ≤25W; middle power: ≤10W; low power: ≤5W                                                                                                                 |            |
| Output power (Costom- made)                                                                                                                                                                                                                                                                                                                                                                            | High power: ≤10W; middle power: ≤6W; low power: ≤3W                                                                                                                  |            |
| Max. Frequency deviation                                                                                                                                                                                                                                                                                                                                                                               | ±5KHz                                                                                                                                                                |            |
| Noise radiation                                                                                                                                                                                                                                                                                                                                                                                        | ≤-60dB                                                                                                                                                               |            |
| Flexibility                                                                                                                                                                                                                                                                                                                                                                                            | ≤0.2uV (12dB SINAD)                                                                                                                                                  |            |
| Max. Audio output                                                                                                                                                                                                                                                                                                                                                                                      | 2W @ 8Ω 5% distortion                                                                                                                                                |            |
| Working current                                                                                                                                                                                                                                                                                                                                                                                        | Receive                                                                                                                                                              | 0.3A (SQL) |
|                                                                                                                                                                                                                                                                                                                                                                                                        | Transmit                                                                                                                                                             | 5A (Max.)  |
| Dimension                                                                                                                                                                                                                                                                                                                                                                                              | 105 X 30 X 106mm (width X hight X depth not including the outparts)                                                                                                  |            |
| Weight                                                                                                                                                                                                                                                                                                                                                                                                 | about 0.5 kg                                                                                                                                                         |            |

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| <p>Rear Panel</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <p>13.8V DC power supply interface</p> <p>13.8V DC power supply interface. Make sure the red wire is connected with the positive polarity (+) and the black wire with the negative polarity (-) of the power supply.</p> <p>External speaker interface</p> <p>Connect with an external speaker for better sound effect when necessary. This interface can connect with a 3.5mm single channel plug.</p> <p>Antenna interface</p> <p>Connect external antenna to this interface. The impedance of the antenna should be 50 Ω.</p> |  |
| <p>Declaration</p> <p>This manual has been sought during the preparation of accurate and complete, but for the errors and omissions that may appear on the text, the company is not responsible. The company has right to change product's design and specifications without prior notice.</p>                                                                                                                                                                                                                                   |  |

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