

Operation instructions

USER'S MANUAL



Professional wireless intercom
PROFESSIONALFMTRANSCEIVER

Thank you for choosing our products, please find and read this manual before using.

You will receive

Radio*1

Antenna-2 pcs, 1 microphone, 1 bracket, 1 manual, 1 adapter, 1 line, some screws.

Location

Plan for the location of the transceiver and microphone bracket before starting the installation.

Select a location that is convenient for operation, yet does not interfere with the driver or passenger.

The transceiver is usually mounted to the underside of the dash with the microphone bracket beside it.

NOTE: The transceiver is held in the universal mounting bracket by two thumbscrews

which allow for adjustment to a convenient angle. The bracket includes two self-tapping screws.

The mounting must be mechanically strong and conveniently located.

Mounting and Connection

1. Hold the radio with the mounting bracket in the exact desired location.

If there is no interference, remove the bracket and use it as a template to mark the location for the mounting screws.

2. Drill the holes and secure the bracket.

3. Connect the antennas, if attached the antenna for analog, please:

Familiar with the buttons

- 1-Attached antenna for Wi-Fi
- 2-Connector for analog antenna
- 3-Universal connector
- 4-Attached antenna for network
- 5 & 14 -PTT for analog
- 6 & 13 - PTT for POC
- 7-AB/FM KEY (skip in two modes)
- 8-VFO/CH mode switch key
- 9 & 19- Menu/confirm key
- 10 & 16- EXIT/BACK key
- 11 & 12 & 18 -DOWN & UP key
- 15-numeric keypad
- 17-OK key (confirmation key)
- 20-sim card slot
- 21-Power on/Volume +/-



Operation of the radio

Turning on/off

Make sure the power cord, antenna and microphone are connected to their proper connectors before starting.

Press knob [21] for about 2-3 seconds to turn on the radio. And you will hear a short music and enter the home page.

Press 2-3 seconds again to shut down the radio.

Change frequency mode

Press button[8] or “#/scan” to change to VFO or channel mode or CH mode.

In VFO mode, user can input the frequency directly

Then press “▲/▼” to [OK] or [cancel], and press “OK” or “MENU” button to confirm.

User can press “Up” key for 2 seconds to skip to left selection or press “Down” key for seconds to skip to right selection, and press “OK” or “MENU” button to confirm selection.

Skip in POC & Analog

Press button[7] or “*/FM” to skip the cursor ► / ▼ in POC & Analog mode.

Adjust the volume

Turn clockwise to + volume and counterclockwise to - volume.

Menu

Press "MENU" button or "OK" button to enter menu. You will see

-POC

Operate according to the platform.

Be adaptable with platforms: POC global, Real PTT(Smart PTT), Zello, can be changed in the Menu item "Settings→radio settings".

-Channel settings - user can edit channel alias, bandwidth, power, TX,RX frequency, Send CSS, Receive CSS here.

Channel alias

Use "▲/▼" to "Channel alias", press "MENU" key or "OK" key to enter, then use microphone to input the numbers directly to change the name with numbers, if you want to edit the alias with letters, please use writing program on computer.

Bandwidth

Use "▲/▼" keys to bandwidth, press "MENU" key or "OK" key to enter

Press "▲/▼" keys to select "12.5khz or 25khz", then press "▲/▼" to "OK or cancel" and press "MENU" key or "OK" key to confirm selection .

Press "Exit" to quit directly.

Power

Use "▲/▼" keys to Power, press "MENU" key or "OK" key to enter

Press "▲/▼" keys to select "Low or High", then press "▲/▼" keys to select "OK or cancel" and press "MENU" to confirm selection.

Press "Exit" to quit directly.

TX

Use "▲/▼" keys to TX, press "MENU" key or "OK" key to enter

Input the frequency directly by microphone or by soft keyboard, then press "▲/▼" keys to "OK or cancel" and press "MENU" to confirm selection.

Press "Exit" to quit directly.

RX

Use "▲/▼" keys to RX, press "menu" key or "OK" key to enter

Input the frequency directly by microphone or by soft keyboard, then press "▲/▼" keys to "OK or cancel" and press "MENU" key to confirm selection.

Press "Exit" to quit directly.

Send CSS

Use "▲/▼" keys to "Send CSS", press "MENU" key or "OK" key to enter

Press "▲/▼" keys to ▼ beside CTCSS, press "MENU" to enter then press "▲/▼" keys to select "CTCSS/DCS_N/DCS_I" mode, press "MENU" key to confirm selection.

Use "▲/▼" keys to ▼ beside ctcss value, press "MENU" key to enter and press "▲/▼" keys to select values then press "MENU" key to confirm selection.

And press "▲/▼" keys to "OK or cancel" and press "MENU" key to confirm setting.

Press "Exit" to quit directly.

Receive CSS

Use "▲/▼" keys to "Receive CSS", press "MENU" key or "OK" key to enter

Press "▲/▼" keys to ▼ beside CTCSS, press "MENU" to enter then press "▲/▼" keys to select "CTCSS/DCS_N/DCS_I" mode, press "MENU" key to confirm selection.

Use "▲/▼" keys to ▼ beside ctcss value, press "MENU" key to enter and press "▲/▼" keys to select values then press "MENU" key to confirm selection.

And press "▲/▼" keys to "OK or cancel" and press "MENU" key to confirm setting.

Press "Exit" to quit directly.

Channel list

Create a new channel

Press "▲/▼" keys to "channel list", press "MENU" key to enter, the cursor is defaulted at "+", press "MENU" to enter to creat new

channel.

Delete all channels

If user need to delete all channels, use “▲/▼” to the “delete icon” on the upper right corner, press "MENU" key to enter.

Use “▲/▼” to select “OK or Cancel” then press “MENU” or “OK” key to confirm selection.

If user want to delete/edit one or several channels, use “▲/▼” to select desired channel, then press “MENU” to enter selections “ENABLE/EDIT/DELETE”, use “▲/▼” to select item and press “▲/▼” to “OK or Cancel” then press “MENU” or “OK” key to confirm selection.

-Function

Analog scanning

Press “▲/▼” keys to navigate to "Analog scanning" then press "MENU" key to enter.

Use “▲/▼” keys to select scan-related parameters and configure. Then, use the Down key to select "Start Scanning" and press “MENU” key to begin scanning.

Stepped frequency

Press “▲/▼” keys to navigate to "Stepped frequency" then press “MENU” key to enter.

Use “▲/▼” keys to select from the options (5/6.25/12.5/25/50/100), then press "MENU" key to confirm.

Press “▲/▼” keys to choose "OK" or "Cancel," then press "MENU" key to finalize the selection.

Press “EXIT” key to exit the operation directly.

Frequency matching

Enter the “Frequency matching” and press "MENU" key to start frequency matching.

Press the PTT key on another walkie-talkie to transmit a signal. The mobile radio will then receive the matched frequency and exit the frequency matching mode.

And the two devices can now communicate on the current frequency.

Press “EXIT” key to exit directly.

Temperature threshold

Press “▲/▼” keys to navigate to "Temperature Threshold," then press "MENU" key to enter.

Use “▲/▼” keys to "Open Threshold" or "Close Threshold."

User can input the temperature value using the soft keyboard or the numeric keys of the microphone.

Note: The value of "Open Threshold" and "Close Threshold" should not be set to the same, otherwise, the fan will not function.

Press “EXIT” key to exit the settings directly.

TOT

Press “▲/▼” keys to navigate to "TOT", then press “MENU” key to enter.

Use “▲/▼” keys to ▼ next to the time value, press “MENU” key to enter, use “▲/▼” keys select the time for TOT.

Then press “MENU” key to confirm and exit.

Press “▲/▼” keys to "OK" or "Cancel," then press “MENU” key to finalize the selection.

Press “EXIT” key to exit the settings directly.

Simulate PTT prompt sound

Press “▲/▼” keys to navigate to "Analog PTT Tone" then press “MENU” key to toggle the feature On/Off.

When enabled, the device emits a "beep" tone when the analog PTT key is pressed.

Public network switch

Press “▲/▼” keys to navigate to "Public network switch" then press “MENU” key to toggle the feature On/Off.

When disabled, the functions of POC mode become unavailable ("Airplane Mode").

Analog switch

Press “▲/▼” keys to navigate to "Analog Switch" then press “MENU” key to toggle the feature On/Off.

When disabled, the functions of analog mode become unavailable.

Transfer switch - When enabled, the device can only function as a repeater and cannot transmit via POC or analog mode.

Press “▲/▼” keys to navigate to "Transfer Switch" then press “MENU” key to toggle the feature On/Off.

When enabled, the homepage displays a "Z" icon on analog mode. Signals received via POC are relayed via analog, and vice versa.

Disabled: Repeater functionality is turned off.

Play local sound during transfer

Press “▲/▼” keys to navigate to "Play local sound during transfer", press “MENU” key to toggle the feature On/Off. Enabled: The device plays received walkie-talkie audio from analog or POC signals. Disabled: The device does not play received audio.

Power saving

Power-saving mode for Analog mode.

Press “▲/▼” keys to navigate to "Analog Power Saving", then press “MENU” key to toggle the feature On/Off.

Receive priority - When messages are received simultaneously via POC and analog, the device prioritizes transferring based on the current setting, while the other message is blocked.

Press “▲/▼” keys to navigate to "Reception Priority," then press “MENU” key to enter.

Use “▲/▼” keys to select "Public Network Priority" or "Analog Priority," then choose "OK" or "Cancel" and press “MENU” key to confirm.

Restore default

Reset all channel frequencies to their initialized status.

Simulation upgrade

Upgrade the analog firmware version.

Note: this function need to operate on computer.

Simulated version number

The analog firmware version of this radio.

Note : Subject to change without notice.

-Settings**Mobile**

SIM Card Configuration

Wi-Fi

Press the ▲/▼ keys to select "Wi-Fi", then press “MENU” key to enter.

The system will automatically highlight "On/Off"—press “MENU” key again to toggle.

When enabled, the device will scan for available WLAN networks. Select a network to connect.

Bluetooth (Non-standard feature, not compatible with all devices. Under developing.)

Radio settings

Press the ▲/▼ keys to select "Radio settings", then press the Menu key.

Choose "Select POC" (Push-to-Talk over Cellular platform) and confirm with the Menu key.

Select a platform: GLOBAL-PTT (POC global), Smart-PTT (Real PTT), Zello, Xinduijiang, then press “MENU” key to confirm and exit.

Display

Adjust screen brightness, night mode, and sleep timer (inactivity timeout).

Sound - Configure phone ringtone, alerts, and other tones.

Press “Menu” key to enter, use ▲/▼ keys to select options, and confirm with “MENU” key.

Media volume must be adjusted using the "Power on" knob.

Storage**Date & time**

Enable "Automatic date & time" and "Automatic time zone" (via network sync) with “MENU” key.

For manual settings, disable auto-sync first.

Location (optional GPS function)**Language & input**

Select from supported languages “English, Chinese (Simplified), Chinese (Traditional)”.

Use ▲/▼ keys to choose, then confirm with “MENU” key.

Press “EXIT” key to exit the settings directly.

Backup

"Erase All Data" (Factory reset—requires password).

About

View the radio's IMEI, SIM status, IP address, and other details.