

CZH-T251 Manual

一. Note

ensure that the supply voltage is within the allowable range of;
Maintenance operated only by professional and technical personnel;
erection of the antenna, please do lightning protection measures;
Do not touch the antenna transmitter powered;
Do not boot in missed antenna case;
Do not use in explosive environments (such as gas stations, gas, steam, etc.);
Do not place the transmitter placed in extremely dusty, humid, high
temperature use;
Be sure to comply with local radio regulatory agencies require the use of

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二. Directory

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三. Product Features

CZH-T251 is the product of a number of functions in one rugged, reliable and stable performance, simple operation, excellent sound quality, its main features are as follows:

single / dual channel mode is optional;
transmit power continuously adjustable from 0W to 25W;
a key shuttle can operate all functions;

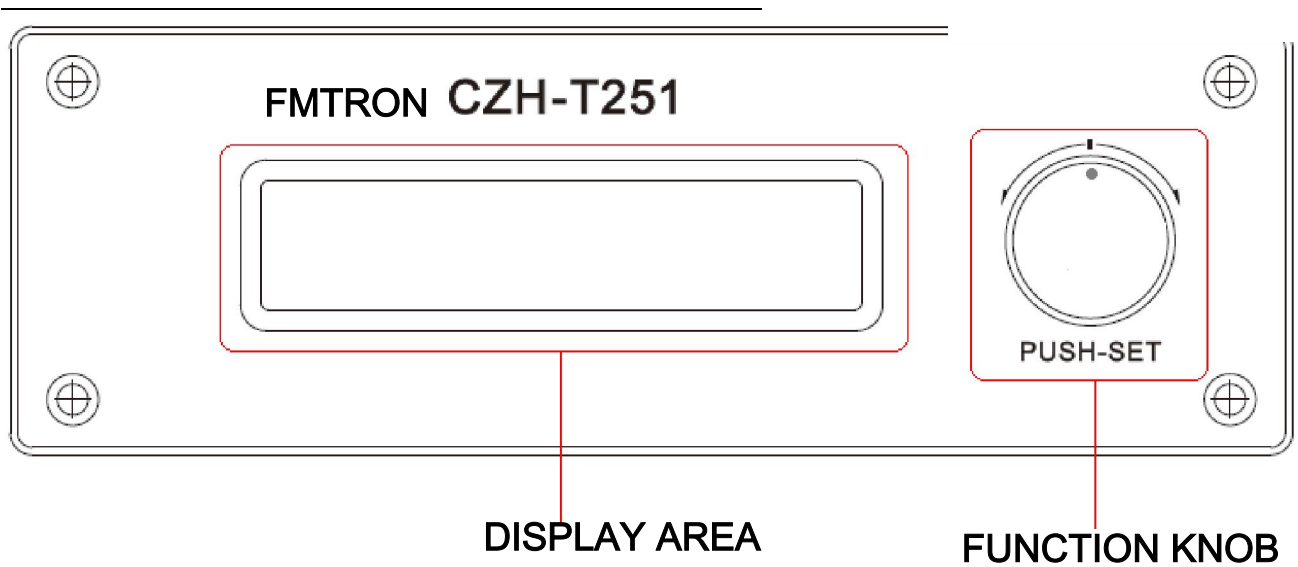
VSWR protection function, the antenna is not connected or do not match automatically enter the protected status;

temperature protection function, when the transmitter temperature automatically enter the protection status;

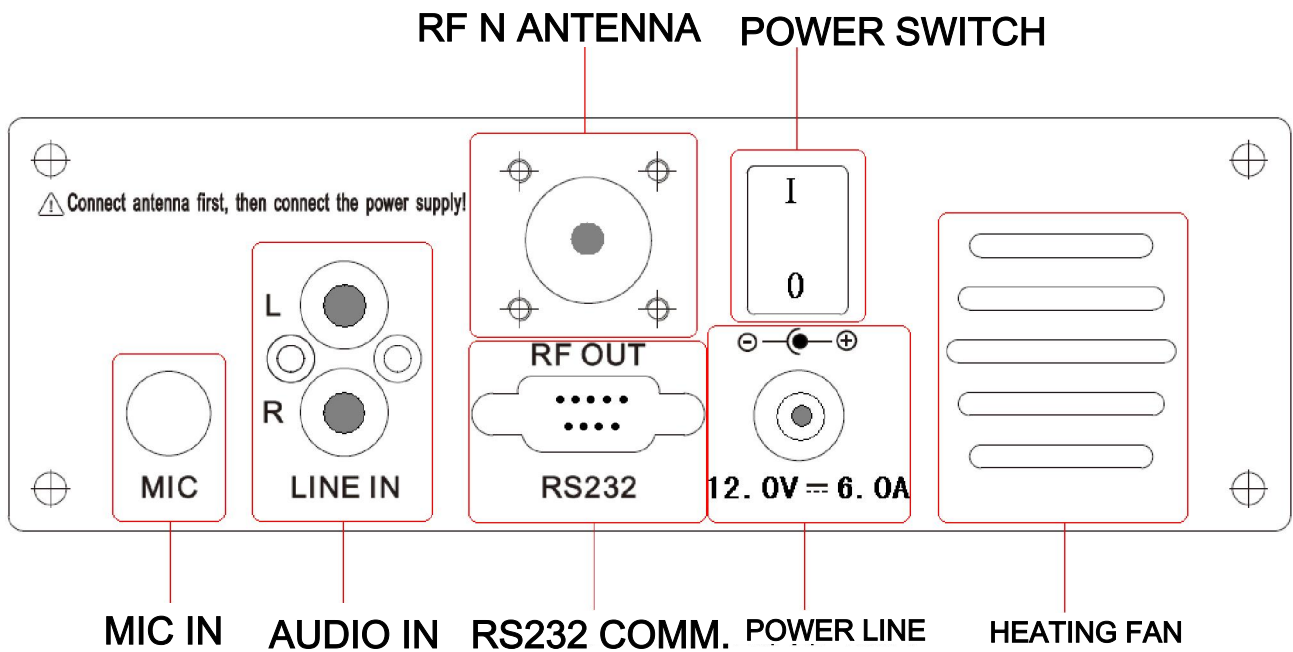
四. Product instructions

1, the host of the front panel and rear panel

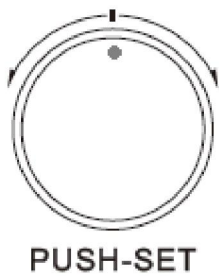
Front-Panel



Rear panel



2、Knob operational definition and description



Mode of operation	Definition	Description
Rotation	Adjustment switch	Menu interface setting regulator, switch (To reduce the counterclockwise rotation, clockwise rotation is increased)
Short press	Confirm	Menu options interface to enter, exit
Long press	Standby	The main interface, long press the knob to enter standby

3、 Instructions

(1) First, check the antenna and reliable connection, followed market power, pull the power switch to the "I" position "O" position for the shutdown, as shown at right :



by the Boot,

Boot the machine into the working status display interface.

FM93.3MHz 61 M60
PO:25.1W SWR:1.0 41°C

- | The current operating frequency : **FM93.3MHz**
- | real-time the internal temperature : **41°C**
- | Output power : **PO:25.1W**
- | SWR : **SWR:1.0**
- | audio mode : **61** STEREO , **M60** MONO
- | line volume value : **61** , volume range value 0~79
- | MIC volume value : **M60** , The microphone volume range value 0~79

(2) Function with parameters set

short rotation the Bian code switch, enter the menu options interface. Turn the rotary encoder switch menu options, a total of nine cycle is displayed on the display :

1	MENU FREQUENCY SET	2	MENU AUDIO VOLUME
3	MENU MIC VOLUME	4	MENU RF POWER SET
5	MENU STEREO OR MONO	6	MENU TEMP SET

Frequency setting

Rotation the Bian code switch, the first choice of a menu, "MENU FREQUENCY SET", then press the encoder switch to confirm the selection. Will enter the frequency setting state (output power amplifier will be temporarily closed), appears as follows:

FREQ
93.30MHz

Rotary coding switch, you can set the frequency, the frequency will be 0.1MHz frequency of plus or minus. After the setup is complete, press the encoder switch to confirm and exit the frequency setting state.

Line volume setting

By rotating the Bian code switch menu options interface, the first choice of two menu MENU AUDIO VOLUME ", then press the encoder switch to confirm the selection. In this case, will enter the line volume setting status display as follows :

AUDIO VOLUME
61

At this point, the rotary coding switch can be line volume setting can be set to a value range of 0 to 79. After the setup is complete, press the encoder switch to confirm and exit line volume setting state.

Microphone volume setting

By rotating the Bian code switch menu options interface, the first choice of three menu MENU MIC VOLUME ", then press the encoder switch to confirm the selection. At this point, enter the microphone volume setting state, is shown below :

MIC VOLUME
60

In this case, the rotary coding switch, microphone volume settings can be set in the range of 0 to 79. After the setup is complete, press the encoder switch to confirm and exit the microphone volume setting status.

Transmission power setting

By rotating the Bian code switch menu options interface, the first choice of four menu "MENU RF POWER SET", then press the encoder switch to confirm the selection. At this point, the power setting state is shown below :

POWER SET
DET:25.1W SET:25.0W

Rotary coding switch, power setting, the range of values that can be set from 0 ~ ~ 25W. After the setup is complete, press the encoder switch to confirm and exit the power setting state.

Audio mode set

By rotating the Bian code switch menu options interface, the first choice 5 menu "MENU ST <OR> MO", then press the encoder switch to confirm the selection. At this point, the audio mode setting state, appears as follows :

ST<OR>MO
STEREO 

Rotary coding switch mode setting, STEREO for stereo mode, MONO for mono mode. After the setup is complete, press the encoder switch to confirm and exit audio mode setting state.

The temperature protection settings

First choice menu options interface, by rotating the the Bian code switch the six menu the the MENU TMPE SET, then press the encoder switch to confirm the selection. At this point, enter the temperature protection setting state is shown below :

TEMP SET
65 °C

At this time, the rotary encoder switch, temperature setting, the temperature range that can be set to 30 to 80 ° C. After the setup is complete, press the encoder switch to confirm and exit temperature protection set state.

Standing wave protection settings

By rotating the Bian code switch menu options interface, the first choice the seven menu "MENU SWR SET", then press the encoder switch to confirm the selection. At this point, enter the standing wave protection setting status display as follows:

SWR SET 3.0
PO:25.1W REF:00.0W

Rotary coding switch, can standing wave protection settings can be set in the range of 1.0 to 5.0, the setting is completed, press the encoder switch to confirm and exit the setting state of the standing wave protection.

Line mute setting

By rotating the Bian code switch menu options interface, the first choice 8 menu "MENU MUTE", then press the encoder switch to confirm the selection. In this case, will enter the line the mute setting state, appears as follows :



In this case, the rotary coding switch can line mute setting OFF normal state, line input open; ON line mute state line input off, the setup is complete, press the encoder switch to confirm and exit line mute setting status.

Return to the main interface

By rotating the Bian code switch menu options interface, the first choice of nine menu MENU EXIT "to confirm the selection, then press the encoder switch. Return to the main interface appears as follows:



Tip: menu options interface, no operation within 20 seconds, T251 automatically return to the main interface state.

五、 Product technical parameters

No.	Project	Technical parameters
1	Operating voltage	12V
2	Operating current	< 5A
3	Frequency Range	87~108MHz
4	Frequency stability	± 10PPM
5	Frequency step	100KHz
6	Environment Operating Temperature	-10 ~45
7	Output impedance	50
8	RF output power range	0W~25W

9	Harmonic, clutter radiation	- 60dB
10	Audio distortion	0.2%
11	Frequency Response	50Hz~15000Hz
12	Separation	35 dB
13	Input level	15 dBV
14	Frequency Modulation	± 75KHZ
15	Signal-to-noise ratio	70dB
16	Machine size	210mm (L) *174mm (W) *59mm (H)
17	The weight of the machine	About 1500g

六、 General Troubleshooting Guide

NO.	Negative phenomena	Reason
1	Can not boot	1) outlet has power; 2) whether the power cord is plugged in; 3) The power adapter is normal.
2	Standing wave alarm	1) antenna not connected; 2) antenna mismatch, resulting in too large VSWR; 3) antenna installation location next to the reflection of matter too much.
3	Temperature alarm	1) The fan does not turn; 2) antennas does not match the VSWR is too large, resulting in the temperature rise; 3) inlet and outlet is obstructed, the air flow is blocked.
4	Standing wave value	1) The antenna is not connected; 2) antennas does not match; 3) next to the reflector in the antenna mounting position too.
5	Transmitter closer	1) feeder loss; 2) poor launch environment; 3) The output power not turn up; 4) antenna mounting height is not high enough; 5), the antenna does not match; 6) The receiver sensitivity is low.
6	No power output	1) The output power not turn up; 2) The machine is standby or not boot.

7	Audio muting	1) The host volume not turn up; 2) the input audio signal is normal.
8	Microphone silent	1) microphone is normal; 2) The microphone volume not turn up; 3) microphone moving coil microphone; 4) the microphone is plugged.
9	Sound quality is poor	1) microphone quality is not good; 2) Enter the audio quality is not good; 3) antenna installation method is not correct; 4) audio signal or machine volume is not adjusted.