

# CZE-T2001 200w FM transmitter USER MANUAL



## 1. Attention before use:

- 1) Make sure the supplied voltage is within the acceptable range.
- 2) Only professionals can do the maintenance.
- 3) Please make sure the antenna has lightning protection.
- 4) Please don't touch the antenna when the machine is connected with power supply.
- 5) Please don't power on the machine without connecting antenna.
- 6) Please don't use the transmitter in explosive environment(e.g. gas station, places with gas or steam)
- 7) Please don't use the transmitter in extreme dusty, damp, hot environment.
- 8) Please use the transmitter under the regulations by local wireless administration institutions.

## **2. Menu**

- 1) Product features**
- 2) Product configuration**
- 3) Product user guide**
- 4) Product specification**
- 5) Troubleshoot**

## **3.Functional support:**

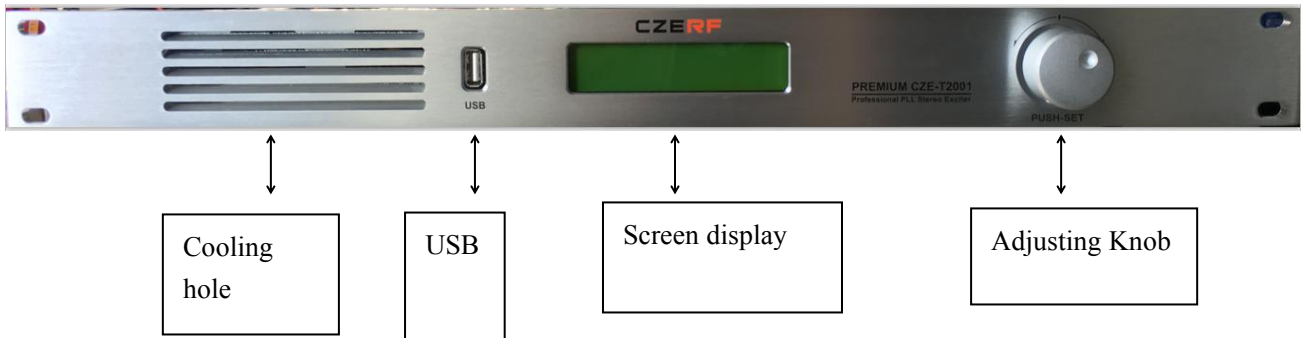
- 1, the frequency range of 87.5 ~ 108MHz**
- 2, power adjustable 0 ~ 200W**
- 3, the volume adjustable 0 ~ 30**
- 4, external source function**
- 5, MP3 player function**
- 6, MP3 playback pause control**
- 7, MP3 on the song playback control**
- 8, stereo / mono switch**
- 9,Chinese/English language switch**
- 10,SWR protection. When antenna is not well connected, the transmitter will turn to protection mode automatically.**
- 11.Temperature protection. When the temperature of transmitter is too high, it will turn to protection mode automatically.**
- 12.External encoder input interface (available for SCA or RDS encoder )**

## **4.Product configuration**

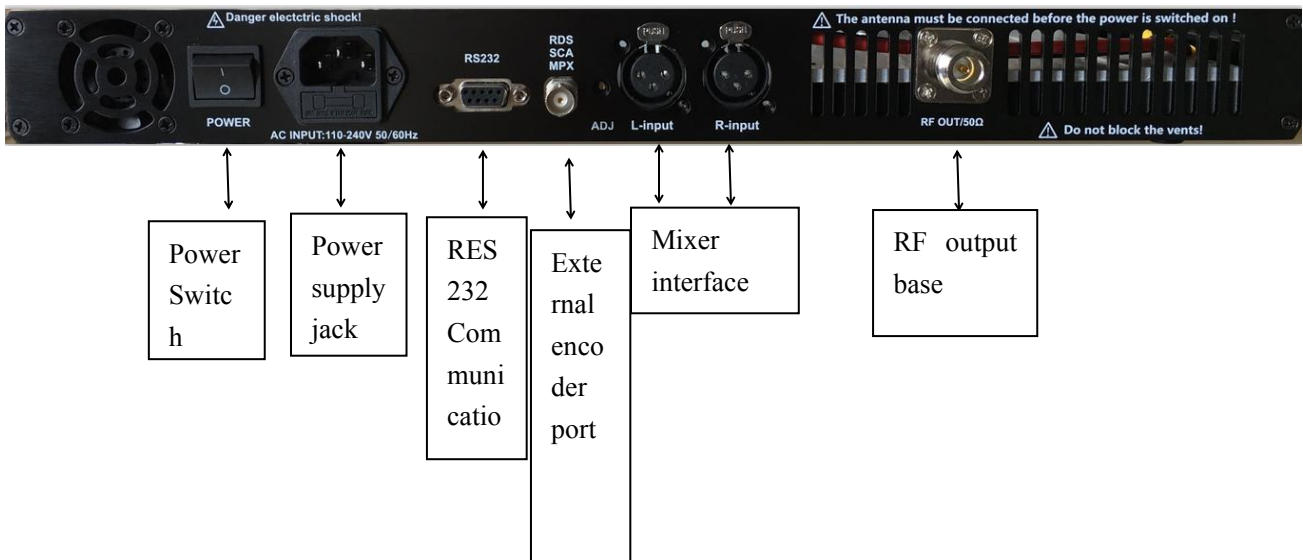
NO	NAME	DESCRIPTION	QTY	UNIT	PORT
1	FM transmitter	CZE-T2001	1	PCS	NO
2	AC POWER CORD	THREE PHASE DC	1	PCS	AC INPUT
3.	Aluminum antenna	1/2 wave antenna	1	set	

## 5、 User Guide

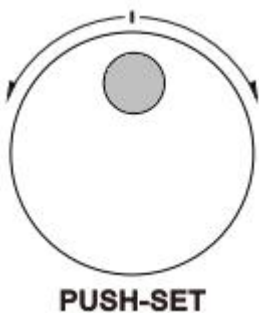
### 1) Front and Back Panel description



### Back Panel



### 2) Knob description



Action	Definition	Description
Turn left/right	Adjust,shift	Main page, adjusting page, shift (turn clockwise to increase, turn Counterclockwise to reduce)
Short press	Confirm	Enter/Exit Menu page

Press and hold	Confirm	On Main page, press and hold to enter Menu
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### 3) Operation Instruction

#### a). Turn ON

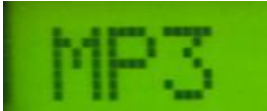


Check the antenna first, make sure it's well connected. Then connect the power cord to home socket, press the power button to I position to turn ON the transmitter. O position means OFF. See picture on the right.



After power on, the transmitter goes into working status. The screen will show working status which has 2 pages, turn the knob to shift between the two pages. See picture below:



Display Page 1:

- Audio input : 
- Real-time working frequency : 
- RF output power: 

- Reflecting power :

R051W

- SWR:

1.0

- Real-time internal working temperature:

21c

- Line-in Volume :

16

- Sound Mode:

ST

ST means Stereo, MO means Mono

#### b). Function and Parameter setting

Press the knob to enter Menu page. Turn the knob to shift pages. There are 11 pages altogether.

1. MENU SET  
FREQ SET

2. MENU SET  
AUDIO SET

3. MENU SET  
VOL SET

4. MENU SET  
POWER SET

5. MENU SET  
MP3 PLAY SET

6. MENU SET  
MP3 NUMBER SET

7. MENU SET  
ST/MO SET

8. MENU SET  
TEMP-P SET

9. MENU SET  
SWR-P SET

10. MENU SET  
CONFIGURE DISPLAY

11. MENU SET  
EXIT

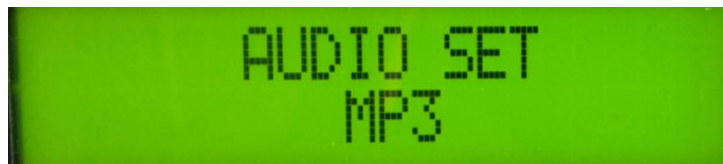
- **Frequency setting**

On the Menu page, turn the knob to page 1 FERQ setting, press the knob to enter setting. Turn the knob to adjust the frequency by stepping of 0.1MHz, then press the knob to confirm setting and exit.



- **Audio input optional(line-in/MP3)**

On the Menu page, turn the knob to page 2 Audio setting, press the knob to enter setting. Turn the knob to set audio input (line-in/MP3), then press the knob to confirm setting and exit.



- **Line-in Volume setting**

On the Menu page, turn the knob to page 3 LINE VOLUME setting, press the knob to enter setting. Turn the knob to adjust the volume within the range of 0~30, then press the knob to confirm setting and exit.



- **RF output power setting**

On the Menu page, turn the knob to RF POWER setting, press the knob to enter setting. Turn the knob to adjust the output power within the range of 0~200w, then press the knob to confirm setting and exit.



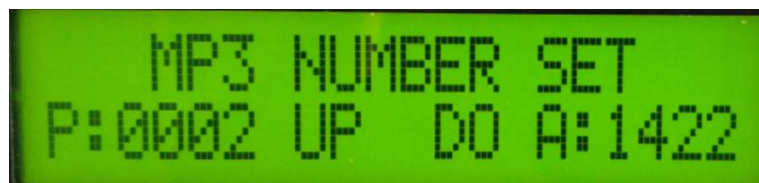
- **MP3 Setting**

On the Menu page, turn the knob to “MP3 PLAY SET”, press the knob to enter setting. Turn the knob to adjust the Mp3 Play setting, then press the knob to confirm setting and exit.



- **MP3 Plays songs number**

On the Menu page, turn the knob to “MP3 NUMBER SET”, press the knob to enter setting. Turn the knob to adjust the MP3 NUMBER SET, then press the knob to confirm setting and exit.



- **Sound mode setting**

On the Menu page, turn the knob ST<OR>MO setting, press the knob to enter setting. Turn the knob to shift the sound mode between Stereo and Mono, then press the knob to confirm setting and exit.



- **Temperature Protection Setting**

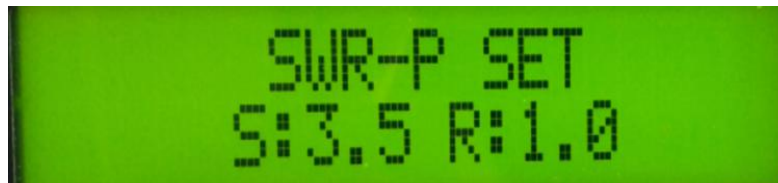
On the Menu page, turn the knob TEMP setting, press the knob to enter setting. Turn the knob to adjust the protection temperature point within the range of 50~70°C, then press the knob to confirm setting and exit.





- **SWR protection setting**

On the Menu page, turn the knob SWR SET setting, press the knob to enter setting. Turn the knob to adjust the SWR protection point within the range of 1.5~3.5, then press the knob to confirm setting and exit.



- **Device Parameter**

On the Menu page, turn the knob CONFIGURE SET setting, then press the knob to confirm setting and exit.



- **Exit setting**

On the Menu page, turn the knob to MENU EXIT, press the knob to exit setting and return to main page.



## 6. Technical Specification



NO	Item	Specification
1	Working Voltage	200~240V AC/50Hz
2	Frequency Range	87.0~108.0MHz
3	Audio type	FM
4	Frequency Modulation	±75KHZ
5	Harmonic,clutter radiation	≤ -60dB
6	Output Impedance	50Ω
7	Frequency Response	30Hz~15000Hz
8	Audio distortion	0.05%
9	SNR	≥70dB
10	Separation	≥55dB
11	Environment temperature	-10℃~45℃
12	Input level	≤1V (Vpp)
13	RF output power	0~200W
14	Working Current	< 1.5A (AC)
15	Frequency Stability	±10PPM
16	Frequency Stepping	50KHz
17	Size	43.5*30*5cm
18	weight	About 3800g

## 7. Troubleshooting

NO	Problem description	Possible Reasons
1	Unable to Power ON	1) Socket is not connected with electricity 2) Power cord is not well plugged. 3) The fuse is not working properly in socket.
2	SWR Alarm	1) Antenna is not well connected. 2) SWR value is too high because antenna doesn't match transmitter 3) There are too many reflecting objects close to antenna.

3	Temperature Alarm	<ul style="list-style-type: none"> <li>1) Fan is not working;</li> <li>2) Antenna doesn't match transmitter, the SWR value is too high, thus temperature rises up.</li> <li>3) The fan holes are jammed.</li> </ul>
4	SWR value is too high	<ul style="list-style-type: none"> <li>1) Antenna not well connected.</li> <li>2) SWR value is too high because antenna doesn't match transmitter</li> <li>3) There are too many reflecting objects close to antenna.</li> </ul>
5	Short transmitting distance	<ul style="list-style-type: none"> <li>1) High loss of feeder cable.</li> <li>2) Poor broadcasting environment.</li> <li>3) Output power is low.</li> <li>4) Antenna is not placed high enough.</li> <li>5) Antenna and transmitter doesn't match.</li> <li>6) Radio receiver has low sensitivity.</li> </ul>
6	No power output	<ul style="list-style-type: none"> <li>1) RF output power needs to be adjust higher</li> <li>2) Transmitter is powered OFF.</li> </ul>
7	No audio output	<ul style="list-style-type: none"> <li>1) Transmitter line-in volume is too low.</li> <li>2) Line-in audio signal is abnormal.</li> </ul>
8	No microphone output	<ul style="list-style-type: none"> <li>1) Microphone is not working well.</li> <li>2) Microphone volume is too low.</li> <li>3) Microphone is dynamic type.</li> <li>4) Microphone is not well plugged.</li> </ul>
9	Poor sound quality	<ul style="list-style-type: none"> <li>1) Microphone quality is low.</li> <li>2) Audio source quality is low.</li> <li>3) Antenna is not well assembled and connected.</li> <li>4) Audio signal or transmitter line-in volume is not adjusted well.</li> </ul>