

CZE-15A INSTRUCTIONS

Model: CZE-15A

1. Precautions for Use:

- Ensure that the supply voltage within the permissible range;
- Maintenance can only be operated by professional technician;
- Do not touch the antenna when transmitter powered;
- Do not boot in the case of not connecting antenna;
- Do not use transmitter in explosive environment (such as gas station, gas, steam, etc.);
- Do not place or use the transmitter in extremely dusty, humid and high temperature environment;
- Be sure to comply with local regulatory agencies require to use transmitter.

2. Product Feature

This model 15W stereo audio fm transmitter is one of the most classical models in our factory. It is the largest selling item and with compact body. It has 8 major characteristics.

1. **High fidelity and high stable:** Its main board is adapted new generation integrated NC FM stereo radio transmitter chip BH414 from Japan ROHM Company. It built-in PLL frequency PLL, audio pre-emphasis, limiter and low pass filter circuit. It can achieve high-fidelity, highly stable signal transmission.
2. **Stereoscopic tune is clear:** Control panel is composed of AT89C2051 and AT24C02; After the 2 pieces of 2sc3355 three-level power amplifier and 1 piece of 2sc2053 and ensure that the output of the stereo sound effect;
3. **good shielding: compact design, would not happen frequency drift resulting from induction because of external signal.**
4. **Good heat dissipation:** Use high-quality aluminum alloy chassis, lightweight and excellent heat dissipation, can guarantee the stability of continuous work equipment;
5. **Easy to use:** Panel with LCD, display transmission frequency, according to the identity of

each interface to connect to other hardware, easy to adjust, and intuitive.

6. **Switching Power:** 3W and 15W can be switched using.
7. **Switching Frequency:** 87.5M ~ 110M range can be set, such as 86M ~ 90M, 95M ~ 108M, 87M ~ 108M
8. **This subsection with microphone and volume control functions.**
9. **Temperature Protection, can set up their own temperature protection.**

3. Product Configuration

No.	Product Name	Specification	Quantity	Unit
1	Host Machine	CZE-15A	1	piece
2	GP antenna		1	piece
3	Power adapter	DC12V/4A	1	set
4	Audio cable	3.5mm audio cable	1	piece
5	manual	Electronic document manual	1	piece

Operation Instruction

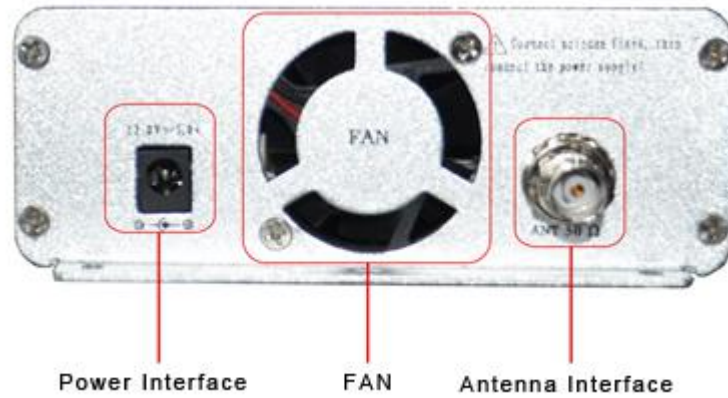
- **Schematic diagram of front panel and back panel**

Front Panel



1.volume adjustment	2.audio input
3.on/off	4.frequency up
5.frequency down	6.microphone input
7.microphone volume input	

Back Panel



- **Audio Volume and Microphone Adjustment**



- **Frequency Adjustment**



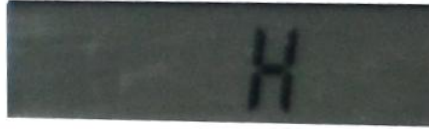
- **Power Adjustment**




The power output of two tranches: High Profile (H): > 15W; low power profile (L): <3W

Connect power adapter, Operate it as follows in power off state: (Note: In different operation ways to CZE-7C and CZE-05B)

1. Press button  and do not let go. Then loosen this button after 3 seconds. At this

time it comes into power adjustment state, LCD screen displays “L” or “H”(Picture default as H high power profile) see it as below:




2. Press button , and set it as high power (H),
3. Press button , and set it as low power (L),
4. Choose the power profile you need, then press button , power setting completed. And it comes into frequency range setting state.

● **Temperature Control Alarm Setting:**




1. First, ensure that the host power supply not connected, press and hold the key to open the leftmost let go;
2. Connect power supply, at this time screen displays temperature character.
3. Then through the middle and right up and down keys to set the desired temperature alarm;
4. Press the left key to open the confirmation, the screen display OFF;
5. At last, extract the power supply adapter.
6. Complete above procedures means successful setting, when you connect power it can work normally.

● **Frequency Range Setting:**


1. After power setting finished, it will come into frequency range setting state. Power setting completed, press button  and LCD screen display one group of frequency. This group of frequency data is the high end of working frequency.(as picture below shows)

(Its default frequency is 108MHz before leaving factory.)



2. For example, when you want to set working frequency range as 90MHz to 100MHz, through this button  to adjust frequency data as 100.00MHz.
3. Frequency band high end setting completed, press button , it will be into frequency band low end setting. LCD displays data as frequency band low end frequency (shown as picture) , through button  to adjust data as 90.00MHz.



4. Then press button  again, at this time, setting finished.
5. (Note: frequency band low end can not be higher than frequency band high end)

● **Product Technical Parameter:**

NO.	Item	Technical Parameter
1	Operating voltage	11~13V DC (Nominal Voltage is 12V)
2	Operating Current	< 3A
3	Frequency range	87~108Mhz (optional 70~90M)
4	Frequency stabilization	± 10PPM
5	Frequency stepping	100KHZ
6	Environment working temperature	-10℃~45℃
7	Output Impedance	50 Ω
8	RF output power range	H: 14~16 W L: 2~3W
9	SNR	≧ 65 dB
10	Audio Distortion	0.30%
11	Frequency Response	20HZ~15000HZ
12	Pre-emphasis	50us
13	Degree of separation	≧ 40 dB
14	Input level	≤ -10 dBV
15	Maximum Deviation	± 75KHZ
16	Machine Size	190mm(L)*125mm(W)*45mm(H)
17	Operating voltage	11~13V DC (Nominal Voltage is 12V)

● **Trouble Removal**

No.	Phenomenon	Reason
1	Can't boot	1) If power socket switched on; 2) Whether the power cord plug; 3) If the power adapter is normal.
2	Standing wave is bigger	1) antenna is not connected; 2) antenna is not matched; 3) much reflector in antenna installation location.
3	RF distance is close	1) Big feeder loss ; 2) Bad launch environment; 3) The output power is not big; 4) Antenna installation height is not high ; 5) antenna is not matched; 6) The receiver sensitivity is low 。
4	There is no power output	1) The output power is not adjusted big; 2) Machine standby or not boot .
5	Audio silent	1) Volume of host machine is large; 2) Whether input audio signal is normal.
6	Microphone is silent	1) Whether microphone is normal; 2) Microphone volume is not adjusted large ; 3)Whether the receiver is moving coil microphone ; 4) Whether microphone is plug.
7	Poor audio quality	1) Microphone quality is poor; 2) The input audio sound quality is bad ; 3) The antenna installation method is not correct ; 4) Audio signal or the volume is not adjusted.