

FMUSER 50W/150W FM Transmitter

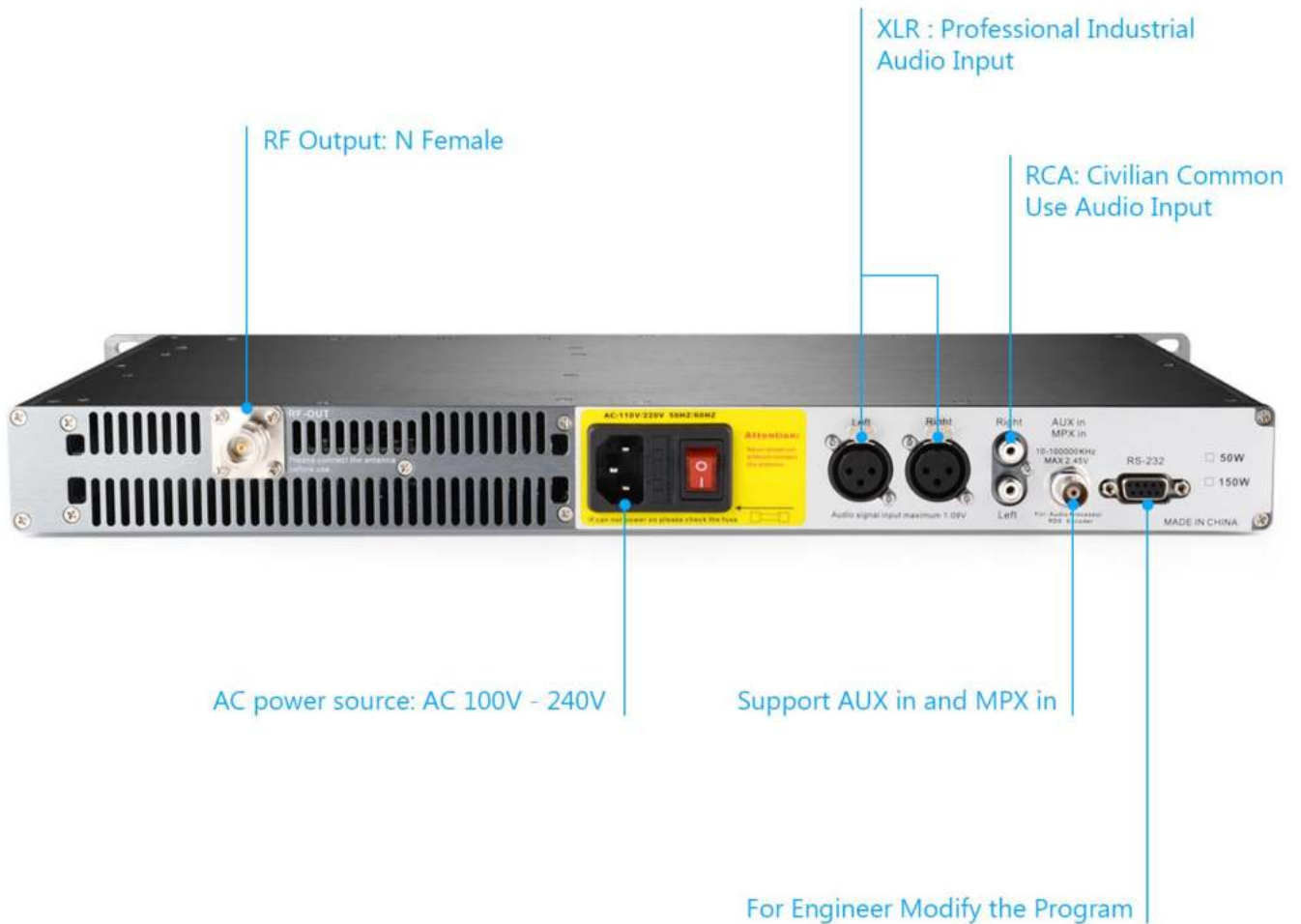
Manual



—、 Front and rear Panel

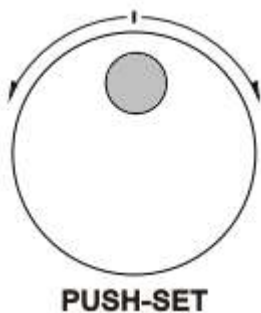


One Simple Button to Adjust All the Parameter,
Easy Operation.



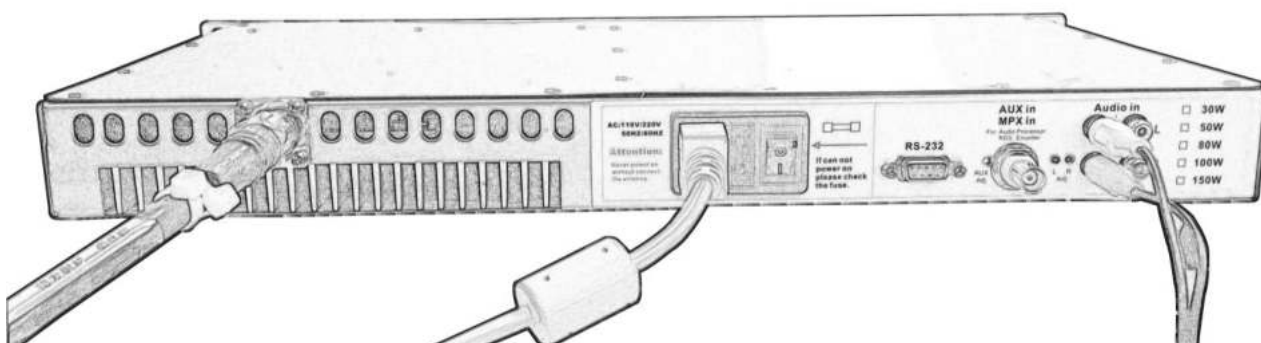
三、 Operating Steps:

3.1 Knob operation definition and description



Operation	说 明
Spin	Adjustment and switching of main interface and adjustment interface settings (Turn counterclockwise to decrease, and turn clockwise to increase.)
Short press	Menu option interface enter or exit
Long press	In the main interface, long press the knob to enter the menu option interface.

3.2 Connect antenna first, connect the power cable



3.3 Boot and display



First check that the antenna is connected, and then connect to the mains, pull the power switch to the "I" position to turn on, and the "O" position to turn off.

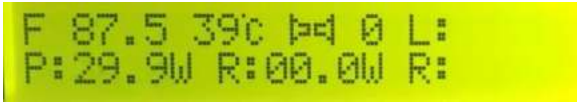
After powering on, the prompt "Do you want to turn on the power?" will appear after about 2 seconds. There is a selection time of 9 seconds, and the default is "YES". If you don't want to turn on the power, turn the left and right knob to switch to "NO", and press again to turn off the power.

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RF POWER IS TURNED ON?
9                      YES

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Enter the main interface, the power will rise slowly, and it will stop until the rated power is reached, as shown in the figure below:



① Screen interface

	Frequency :
	Temperature :
	Power :
	Reflected power :
	Output volumn : -9db--+9db
	Left :
	Right :

② Menu

Press the knob  , enter the menu :

3.4 Parameter settings:

① Frequency setting:

In the menu option interface, select the first menu “FREQUENCY SET” , Then press the knob to confirm the selection. Will enter the frequency setting state (the output power state is temporarily closed), as shown in the figure :

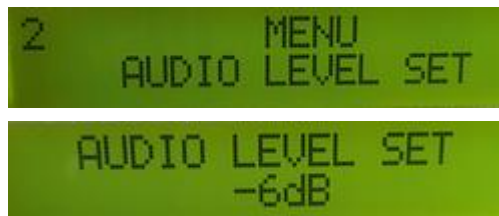


At this time, turn the knob left and right to select the desired operating frequency in 0.1MHz steps. After the setting is completed, press the knob to confirm and exit the frequency setting state.



② Volume level setting

In the menu option interface, select the second menu "AUDIO LEVEL SET", Then press the knob to confirm the selection. Enter the volume level setting state, the display is as follows:



At this time, turn the knob left and right to set the volume level, the adjustment range is -9db--+9db, and the default is 0db. If the mixer outputs music to the transmitter, it is recommended to adjust to 0db first, and then make fine adjustments. After setting, press the knob to confirm and exit the volume level setting state.

③ Transmission power setting

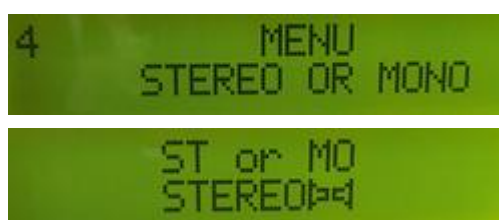
In the menu option interface, select the third menu "RF POWER SET", and then press the knob to confirm the selection. Enter the power setting state, the display is as follows:



At this time, turn the knob left and right to enter the power setting, the value range that can be set is 0~rated power (this product has three specifications of 30W, 50W and 100W). "SET" is "set power", "FWD" is "actual power", and "REF" is "reflected power". After the setting is completed, press the knob to confirm and exit the power setting state.

④ Stereo or mono

In the menu option interface, select the 4th menu "STEREO OR MONO", and then press the knob to confirm the selection. Enter the stereo or mono setting state, the display is as follows:



At this time, turn the knob left and right to enter the audio mode setting, STEREO is "stereo mode", and MONO is "mono mode". After the setting is completed, press

the knob to confirm and exit the audio mode setting state.

⑤ Pre-emphasis setting

In the menu option interface, select the fifth menu "Pre-Emphasis SET", and then press the knob to confirm the selection. Enter the pre-emphasis setting state, the display is as follows:



Turn the knob left and right to enter the pre-emphasis setting, which can be switched between 75us (American standard), 50us (European, Chinese standard), and 0us (no pre-emphasis processing). After setting, press the knob to confirm and exit the pre-emphasis setting state.

⑥ Return to the main interface

In the menu option interface, select the eighth menu "EXIT", then press the knob to confirm the selection and return to the main interface.



四、Precautions for use

1. Ensure that the supply voltage is within the allowable range;
2. Maintenance can only be operated by professional and technical personnel;
3. Please take lightning protection measures when installing the antenna;
4. Do not touch the antenna after the transmitter is powered on;
5. Do not turn on the device without connecting the antenna;
6. Do not use in explosive environments (such as gas stations, gas, steam, etc.);
7. Do not use the transmitter in an extremely dusty, humid, or high-temperature place;
8. Be sure to follow the regulations of the local radio regulatory agency for use.

五、Warranty description:

1. All transmitters of our company are guaranteed for free within one year from the

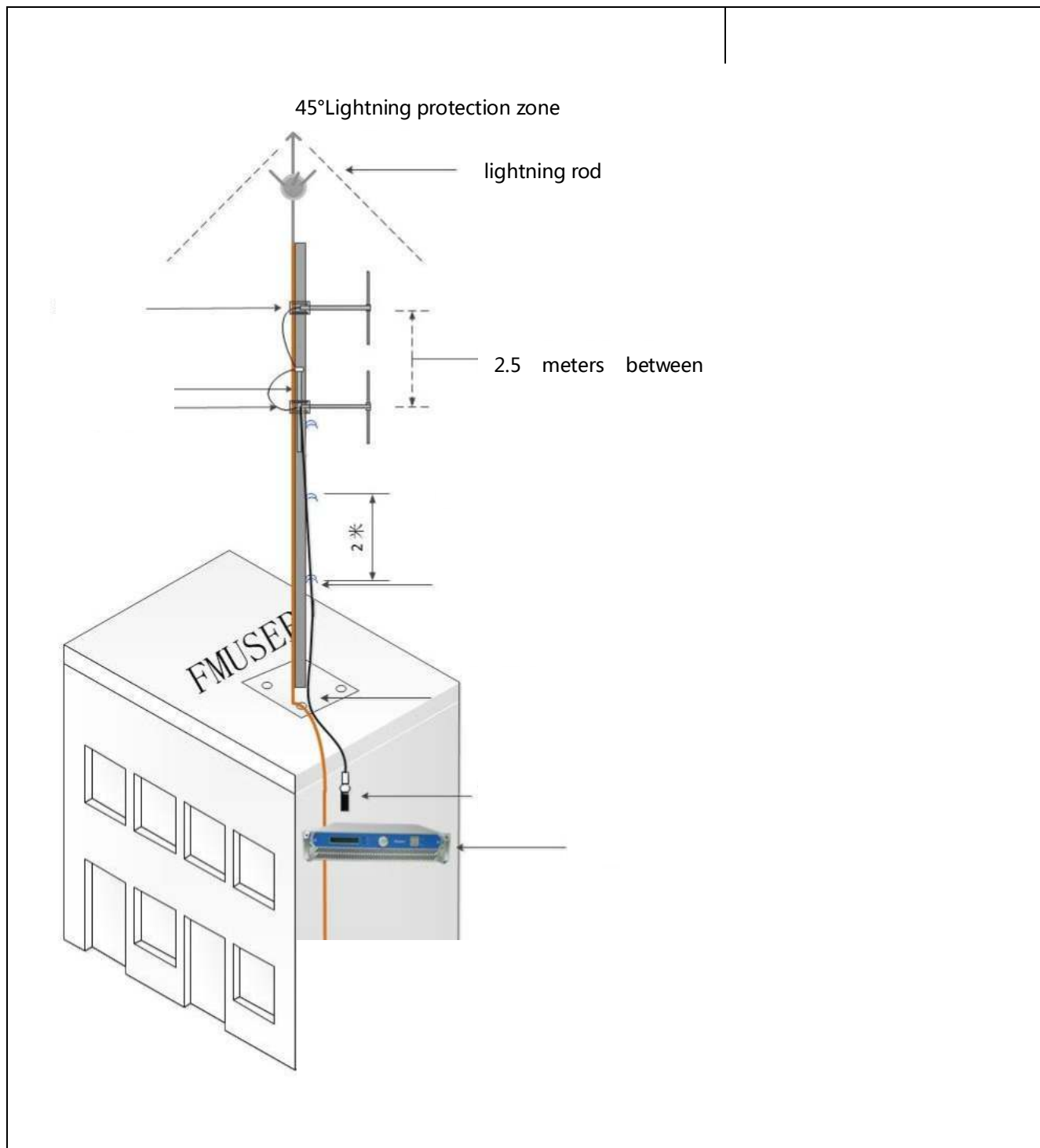
date of receipt, and repaired after one year. (Note: If the quality problem is caused by man-made damage, the appearance is damaged, and the secondary sales are affected, only repair but not replacement.)

2. Cases not covered by the warranty :

- 1) If you do not pay attention to maintenance and cause a lot of dust, it is not covered by the warranty. Please clean up the dust by yourself.
- 2) In the case of unstable voltage and insufficient voltage, if the transmitter continues to work and burns, it is not covered by the warranty.
- 3) If the device is turned on without connecting the antenna, it will not be covered by the warranty.
- 4) If the transmitter on the opposite side of the air conditioner blows, causing the transmitter to burn out, it is not covered by the warranty.

六、 Antenna installation

7.1 Outdoor antenna



Correct erection method and matters needing attention :

- ① Find a building higher than the surrounding buildings, and erect an iron pole on its roof as a support pole for the antenna.
- ② The support rod is at least 2-3 meters away from the roof floor, preferably about 5-6 meters. (The higher

the antenna, the longer the transmission distance.)

- ③ If there are elevator rooms or other buildings on the roof, and the support rods cannot be erected on the elevator room, keep the support rods away from them as much as possible.
- ④ Tie the antenna to the support pole so that the top of the antenna is 50cm lower than the support pole, and reserve it for lightning protection.
- ⑤ The housing and support rod of the antenna are locked and grounded directly for lightning protection.
- ⑥ The antenna is at least 6 meters away from the floor and water tower on the same horizontal line next to it.
- ⑦ The frequency of the antenna must be adjusted to the same as the frequency of the transmitter before turning it on.

七、User FAQ

Serial number	Failure phenomenon	the reason	Handling method
1	Can not boot	1) The power cord plug does not match the transmitter power interface 2) Whether the fuse in the power socket is intact;	Change power supply Change the power strip
2	Transmitter standing wave alarm standing wave value is large	1) The antenna is not connected properly; 2) Antennas are not matched, resulting in excessive standing waves; 3) There are too many reflectors near the antenna installation location.	Check whether the connector of the feeder between the antenna and the transmitter is loose Check whether the frequency of the antenna is consistent with the frequency of the transmitter Place the antenna on a high ground more than 10 meters away from the building
3	Temperature alarm	1) The fan does not rotate; 2) The antenna does not match the standing wave is too large, causing the temperature to rise; 3) There are obstructions at the air inlet and outlet, causing air flow to be blocked.	Change the fan Check whether the frequency of the antenna is consistent with the frequency of the transmitter Clean up the dust

5	Short launch distance	1) Large feeder loss; 2) Poor launch environment; 3) The output power has not been increased; 4) The antenna installation height is not high enough; 5) The antenna is not matched; 6) The receiver sensitivity is low.	Is the feeder longer than 20 meters? Use 1/2 feeder to reduce loss Place the antenna on a high ground more than 10 meters away from the building Set the transmit power mode to H mode Check whether the frequency of the antenna is consistent with the frequency of the transmitter Test it with Desheng radio
6	No power output	1) The output power has not been increased;	Set the transmit power mode to H mode
7	Audio is silent	1) The volume of the host is not turned up; 2) Whether the input audio signal is normal.	The volume of the audio input device cannot be too large or too small Whether the input audio device is working properly
8	Microphone silent	3) Whether the microphone is a dynamic microphone;	CZE series 0.5-30w transmitters can only use electret microphones, not dynamic microphones
9	Poor sound quality	1) The microphone quality is not good; 2) The input audio quality is not good; 3) The antenna installation method is incorrect;	The volume of the audio input device is too large, which will cause noise The sound quality of the audio input device is not good The antenna is too close to the transmitter
10	The computer next to it crashes	The computer next to it crashes	For machines above 1w, please keep the antenna and machine away from the computer and people, as it will interfere with the computer and cause it to crash.

1. Can the antenna be smaller?

Answer: If you want to have a better transmission effect and a longer coverage, you must use a large antenna. Have you ever seen the antenna on the tower of a radio and television station as small as a walkie-talkie?

2. Can the antenna be shorter?

Answer: The length of the antenna is related to the frequency. The smaller the frequency, the longer the antenna, and the higher the frequency, the shorter the antenna.

3. Can the antenna be placed indoors?

Answer: Indoor antennas can only be used indoors, and only suitable for FM transmitters below 10W, otherwise the signal will cause damage to the human body.

4. Can the antenna be placed outside the window?

Answer: It is recommended not to put the antenna outside the window, because the side against the wall will block the signal. If it must be placed outside the window, use a pole to extend it further, and the antenna must be at least 2 meters away from the wall.

5. Can I put the transmitter and antenna on the ground and test it first?

Answer: Never put the antenna on the ground. Please follow the previous instructions to find a place that is within 5 meters of the horizontal surface and there is no obstruction, and the height is more than 5 meters above the floor of the building.

6. What is the coverage area of the FM transmitter?

Answer: The transmission distance of the FM transmitter depends on many factors, based on the true distance. Installed antenna height, antenna gain, use environment, such as buildings and other obstacles, receiver sensitivity, receiver antenna. The higher the antenna installation height, the greater the distance used in rural areas. Generally speaking, the coverage radius of the transmitter below 50W is within 10 kilometers, and the 3KW FM transmitter can cover up to 60 kilometers.

7. What factors have the greatest impact on the coverage of the transmitter?

Answer: antenna height> antenna gain> transmitter power> other

8. What is the effect of antenna gain?

Answer: The gain of the antenna has a decisive effect on the transmission distance of the whole set of transmitters. Each increase of 3dB in the antenna gain is equivalent to a double power of the transmitter.