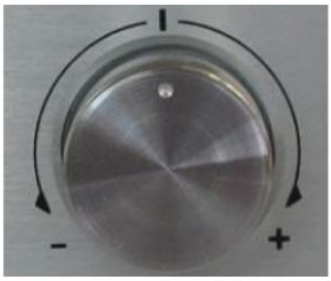
Operation instruction



Code Switch
Press to confirm the operation, Rotate to adjust the operation

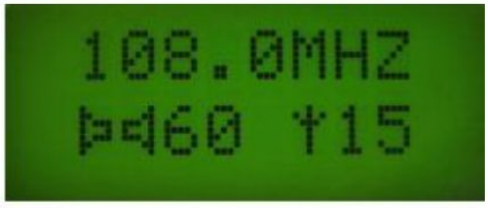
Insert the antenna and turn the locking nut clockwise

Audio, Microphone input jacks

1) Operation instruction

1. First install the antenna, then plug in the power supply. The LCD screen will display "OFF" (PIC01).

(PIC01)



(PIC02)

2. Press the coding switch to enter the main interface. The display screen, will show the current operating frequency,volume status, and input power level (PIC02).
   In the current state, rotating the code switch can adjust the input volume. The adjustable range is 00-79.
3. In the main interface, press the code switch again to enter the MENU
4. Code:"1MENU FREQ" This is the transmitter frequency adjustment (PIC03). Press the code switch again to enter the adjustment interface (PIC04). The adjustment range is 76-108MHZ. Select the appropriate frequency by rotating the code switch, and press the switch to confirm the setting.

(PIC03)

(PIC04)

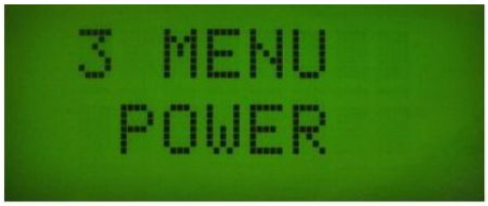
5. Code: "2 MENU MIC--VOL" Volume control (PIC05). Press the code switch again to enter the volume adjustment interface (PIC06). The adjustment range is 00-79. Select the appropriate volume by rotating the code switch, and press the switch to confirm the setting.

(PIC05)

(PIC06)

6. 3 MENU POWER—the output power level adjustment (PIC07),

press the under code switch to enter the adjustment interface (PIC08), adjustment rang is 00-15.
The average change curve graph in all power file and the relationship curve between 15 file- level frequency and power curve graph(see the end photo)



（PIC07）

(PIC08)

7. 4 MENU APO – timing power off adjustment (PIC09), adjustment rang is 00: 00: 00-9: 59:59(H: M: S)

（PIC09）

(PIC10)

8. 5 MENU ST or MO" Stereo or Mono sound output (PIC11)

（PIC11）

(PIC12)

（PIC13）

9. 6 MENU SN machine serial number(PIC14), machine equipment unique number, factory settings, can’t be changed.

（PIC14）

(PIC15)

10. 7 EXIT (PIC16) , back to the main interface

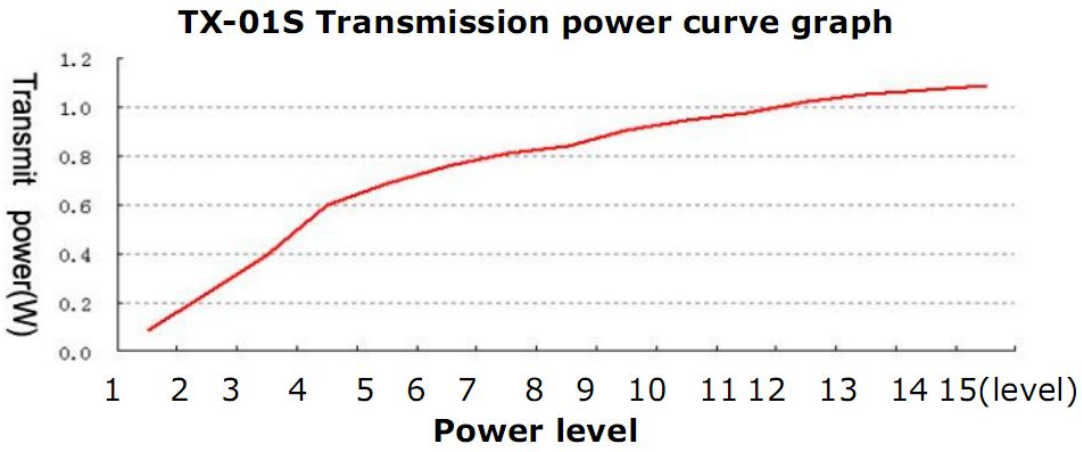
（PIC16）

11. In the various settings interfaces, if no input is given, the screen will automatically return to MENU after 10 seconds.
12. In the MENU interface, if no input is given, the screen will return to the main interface after 20 seconds.
13. After 30 seconds without adjustment to the code switch, the screen's LCD backlight will turn off
14. To turn off the transmitter, press and hold the code switch for 3 seconds if you do that, the LCD will display "OFF"

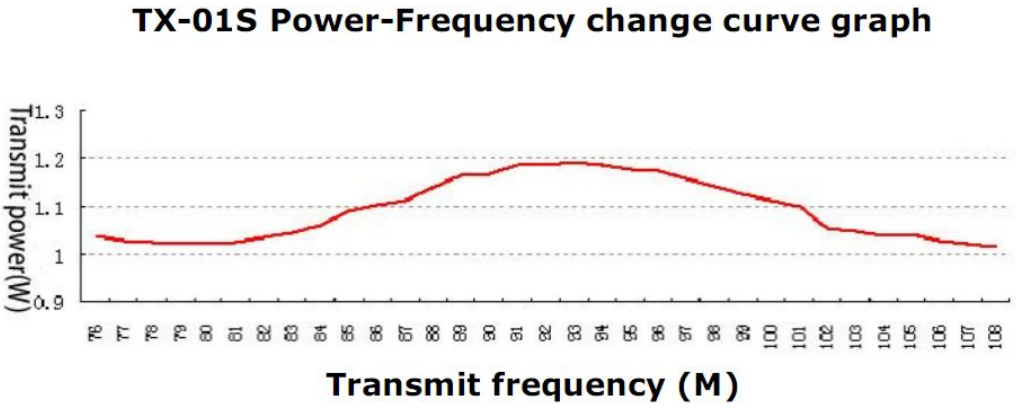
2) Specification

1. Rated power: DC12V
2. Maximum current: 500mA
3. Temperature: -5 ~ 40
4. Frequency range: 76MHz ~ 108MHz
5. The frequency band into: 1000 KHz
6. Frequency stabilization method: PLL
7. Pre-emphasis: Default 50us Option 75us
8. Output: 0 ~ 1000Mw ± 10%
9. Output impedance: 50 Ohm
10. Modulation: WFM
11. Maximum Frequency Deviation: ± 75 KHz
12. Parasitic Amplitude Modulation: <0.2%
13. Audio Frequency Response: 50Hz ~ 15000Hz
14. Audio Input Level: -15dbV (Max: -30dbV)
15. Audio Input Interface: 3.5mm headphone connector and RCA jack
16. MIC Input Level: -15dbV (Max: -45dbV)
17. MIC Input: 3.5mm headphone connector
18. Stereo separation: Superior 30db
19. SNR: Superior 50db
20. Antenna Connector: SMA type

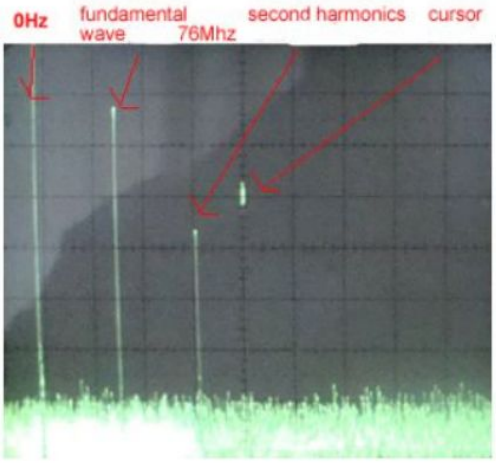
The average change curve graph in all power level:

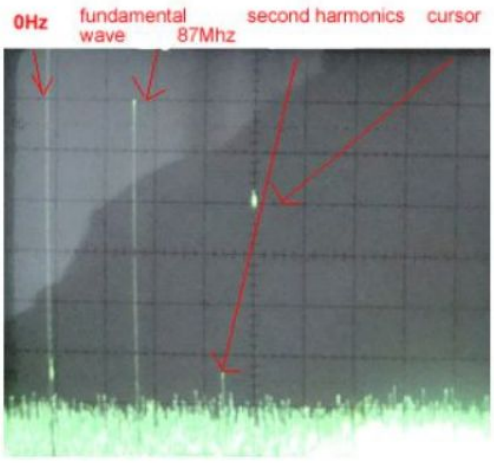


The relationship between frequency and power curve graph at 15file:



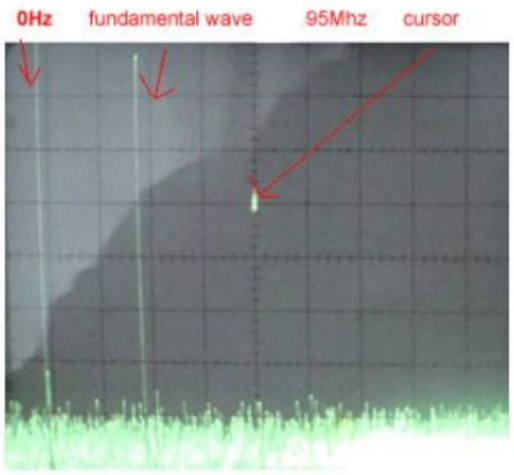
Spectrum Test Images:

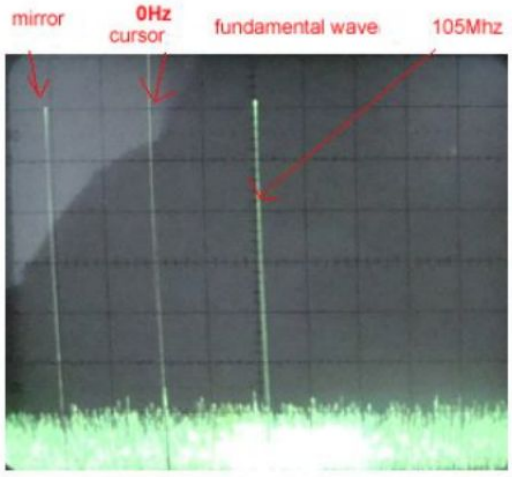




Description: This is the spectrum when the transmitter working in 76Mhz.It can be seen from the image, there is no stray radiation. But second-harmonic is obvious and second harmonic -20db

Description: This is the spectrum when the transmitter working in 105Mhz.It can be seen from the image, the output RF signal is very pure. However, in-60db rang, a very small second harmonic is visible, second harmonic-55db.





Description: This is the spectrum when the transmitter working in 95Mhz.It can be seen from the image, the output RF signal is very pure. However, in the-60db can't see any harmonic. The signal in the left side is the mirror signal

Description: This is the spectrum when the transmitter working in 105Mhz.It can be seen from the image, the output RF signal is very pure. In the-60db, can't see any harmonics. Not real signal, can ignore it.