

500mW Wireless Mini Mobile Video Transmitter

(ST6000TTSE)

User Manual

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1 Features

- Heat-sink aluminum alloy case, dust-proof, moisture proof, shockproof
- NLOS(non line of sight) transmission, and mobile transmission
- Frequency could be set within the specified range
- Data transmission available
- Li battery available
- Switch power supply is enabled with standard Φ 3.5mm connector

2 Functions

- Omni directional antenna transmission
- COFDM modulation and MPEG-2 compression to enable good video quality
- Simultaneous audio and video signals
- One video channel
- Transmitting range is more than 20KM under LOS (line-of-sight) condition and more than 500m under NLOS(Non line-of-sight) condition;
- RF bandwidth 2/4/8MHz optional
- Video input PAL/NTSC optional
- Power output 22dBm
- One channel data transmission (RS232 unidirectional)

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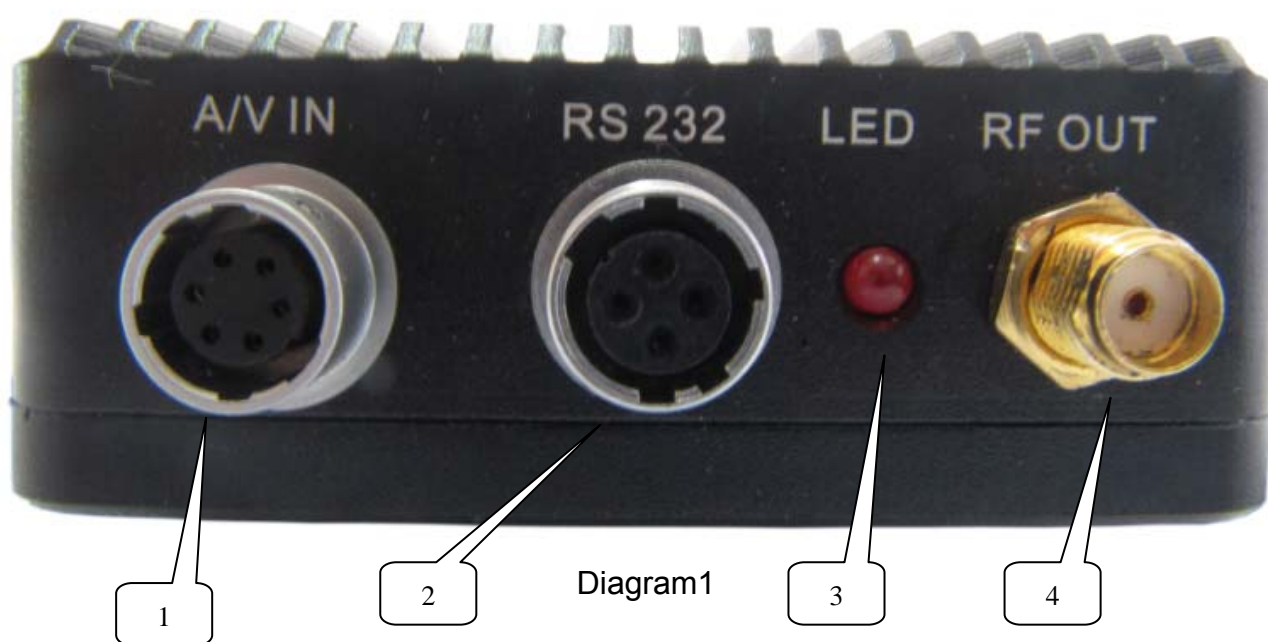
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3 Shipping

- 1 X Tx
- 1 X user manual
- 1 X Tx Antenna
- 1 X Audio cable
- 1 X Video cable
- 1 X Li battery
- 1 X Tx battery charger
- 1 X RS232 data control cable

4 Panel introduction

4.1 Front panel



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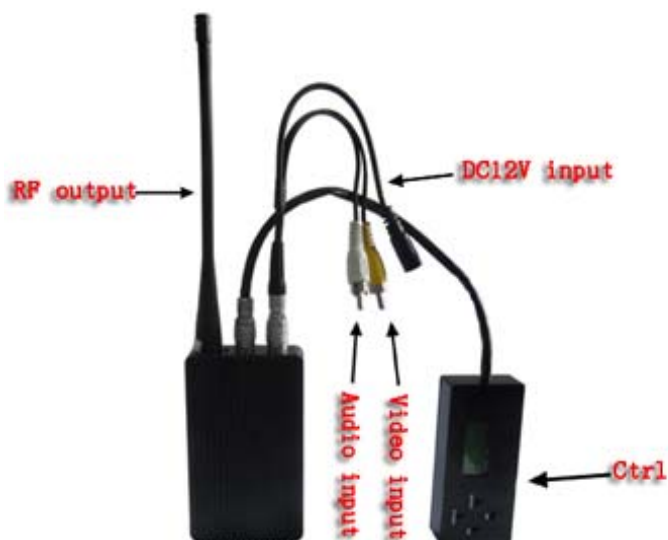
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1. A/V and DC12V input: 6-pin
2. RS232 : 4-pin
3. LED
4. RF output: to be connected to Omni directional antenna

5 Appearance and accessories

5. 1 Appearance



6 Installation

6. 1 Connect Tx antenna with RF connector on;
6. 2 Connect the audio cable to audio input connector;
6. 3 Connect the power supply cable to video input connector;
6. 4 If the receiver has been correctly installed, the video from transmitter will be shown on the monitor.

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7 Frequency setting

Users can press the buttons under the LED to set the frequency.

System frequency display: power at the beginning, the system is initialized state. Begun to stabilize the system initialization is completed and other work, the LCD displays the work of the frequency stability of the system (the last used frequency)



Shows the initial state



Normal operation status display

System frequency adjustment (steps of 1MHz)

First, click the menu button (menu), the LCD screen will display a beating in front of the black spots, and then press the Enter key (ok), then press the arrow keys to adjust the frequency until the frequency setting finished, press the Enter key to lock the frequency , Press the arrow keys to select the menu "RESET" directory, press the Enter key twice (ok) you can restart the last key to exit the settings menu, the rest of the parameters the same order and frequency settings



Frequency setting display



Note: Because the transmitter power amplifier's bandwidth limitations, so under normal circumstances, at the transmitter frequency range marked on the label within the adjustment.

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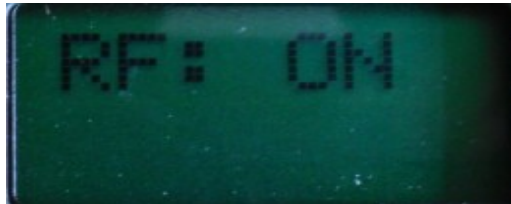
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Reset Display

Description: Change the internal parameters of the transmitter, you must not take effect until the reset.



RF output switch



Description: RF input is set to "OFF" state, the transmitter will not work.



Channel bandwidth setting

Description: When the channel bandwidth is set to "2M", the FEC must be set to 2 / 3 code rate without changes, must be a 16QAM modulation mapping or 64QAM, the setting for the "4M" and "8M" when FEC is set to 1 / 2



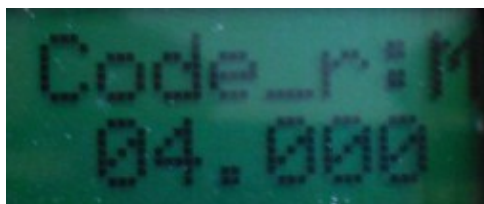
FEC settings

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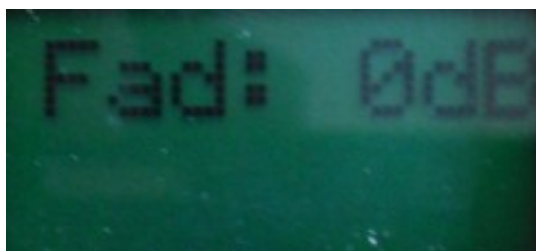
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Transmission rate setting



Protection interval



Output attenuation settings



Reset the display after reboot

8 Specification

Transmitter

Modulation: COFDM, QPSK;

Working frequency: 300MHz-399MHz,400-500MHz (customized),
560MHz-760MHz,760MHz-860MHz (customized)
1.0-1.4GHz (customized)

Channel bandwidth: 2/4/8MHz;

Video Compression: MPEG2 4: 2: 0;

Transmitting Range: several hundred meters to 20Km (depends on environment);

Power Output: 22dBm-24dBm (up to 33 dBm with the amplifier)

Transmitting Delay: less than 500ms;

FEC: 1/2 2/3 3/4 5/6 7/8

Protection Intervals: 1/32 1/16 1/8 1/4

Working Hours: more than 500min;

Weight(without battery): 0.25kg;

Power Supply: DC 12.5V~15V / AC 220V

Temperature: -20°C~+50°C;

Humidity: no less than 95%;

RF connector: SMA;

Transmitter Structure: aluminum alloy case;

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9 Possible Failure

failure	Resolution
No video or no audio on monitor	<ol style="list-style-type: none"> 1. Check whether receiver power supply connection is ok 2. Check all the cable connection and antenna connection to see whether connector is loose or water comes in. 3. Check whether the transmitter is in the RF coverage. 4. Check whether the transmitter works well. 5. Check whether the power amplifier works well. 6. Check whether there is signal interference of the same frequency.
No video output, but the audio is normal on receiver side	Check the video cable connected to the monitor and video camera
No audio and noise, but video is normal	<ol style="list-style-type: none"> 1. Check the connection of the audio cable 2. Check whether there is audio output from receiver. 3. check whether there is audio pickup device on the transmitter end (example, microphone)
Video is continuous, then there is intermission, black screen and then it is normal.	<ol style="list-style-type: none"> 1. It is normal if the signal is not very good. 2. Check whether there is interphone or broadcasting station around.
Video becomes black, and sometimes there is flashing cross striation on the screen	<ol style="list-style-type: none"> 1. Check the video cable connection with transmitter and video camera. 2. Check shielded cable of video output cable
There is green or colorful color lump.	Transmitter video connector is loose. Fix it firmly.
Transmitting coverage suddenly reduces.	<ol style="list-style-type: none"> 1. Check whether the transmitter module works well. 2. Check whether the Tx and Rx antenna are well connected. 3. Check whether the polarization direction of the transmitting

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	<p>antenna is consistent with that of the receiver.</p> <p>4. Check the transmitter battery and switch voltage.</p> <p>5. Check whether the power amplifier works well.</p> <p>6. Check whether there is signal interference of the same frequency around.</p>
<p>During fixed-point transmission, repeated black screen appears.</p>	<p>It is due to environment changes. It is normal.</p>
<p>The covering range is small, and transmitting distance is short.</p>	<p>Check the receiving antenna, and fix the antenna as high as possible.</p>
<p>There is video and audio, but video is blurry.</p>	<p>Check whether video camera focus is correct.</p>

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