

# **2.4GHz Digital AV Sender Manual V1.0**



## A.What is inside the Box?

Please check the following items inside the box for 2.4Ghz Digital AV sender, and contact your dealer if anything is missing:

### 1. Products body



Receiver x 1



or

Transmitter x 1

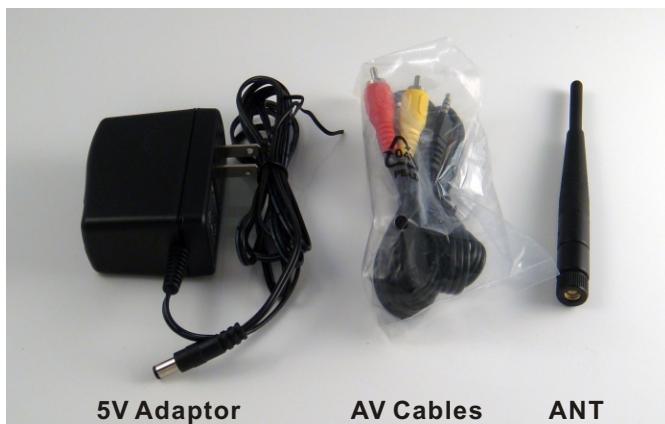
### 2. Accessory: for receiver or transmitter

Refer to the following photo, from left to right:

Antennas x 2

AV cables x 2(3RCA plug to 3RCA plug)

Power Adaptor x 2(100V ~ 240V AC, DC 5V/1.2V in Jack)



5V Adaptor

AV Cables

ANT

## H.Specifications

### Transmitter:

Operating Frequency Band 2403MHz~2478MHz  
Maximum Transmit Power 100mW  
Modulation 16QAM/QPSK/BPSK  
Video Input Level 1V p-p @ 75 ohm  
Audio Input Level 1V p-p @ 600 ohm (STEREO)  
Antenna Omni-directional  
Power consumption 1.9W  
Power supply 5V/1.2A  
Dimension 76mm\*73mm\*24mm  
Weight 82g

### Receiver:

Operating Frequency Band 2403MHz~2478MHz  
Receiver Sensitivity -85dBm  
Video Output Level 1±0.2V p-p @ 75 ohm  
Audio Output Level 1±0.2V p-p @ 600 ohm (STEREO)  
Antenna Omni-directional  
Power consumption 1.9W  
Power supply 5V/1.2A  
Dimension 76mm\*73mm\*24mm  
Weight 82g

### System:

Transmission channels 26 channels auto selection  
Video bit rate up to 12 Mbps  
Random ID code up to 4 million sets  
Video resolution 720 x 480 @ 30 fps (NTSC) or 768 x 576 @25 fps (PAL)  
Operational range up to 150 meters (line of sight)  
Remote control range up to 150 meters (line of sight)  
▪ All specification subject to change without notice

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

## **F. Use Notices**

1. Be sure the transmitter and the receiver were connected to the equipment correctly (e.g. Connect the transmitter to the camera, and the receiver to the TV or DVR).
2. When DC plug is pulled out from transmitter or receiver, it needs to wait for a few seconds to insert it again.
3. Adjust antenna to decrease interference. (vertical or horizontal)
4. In most situations, one pair has a better distance up to 150 meter(open site). When two pairs or more are used at the same time, It can automatically jump to different channels. But the distance between transmitter and transmitter (receiver and receiver), preferably greater than 1.5 meter far.
5. If there are some reasons cause the device stop, you can try to turn power switch off then on again and make the device re-link.
6. It is suggested to have 10 pairs mostly operated in same location.

## **G. Troubleshooting**

| Problems                       | Possible Solution  |
|--------------------------------|--|
| No picture or sound            | Check all cable connections  |
|                                | Make sure power plugs are pushed all the way in  |
|                                | Check power switches on the remote TV or DVR and Video source(Camera, Camcorder, etc.)                       |
|                                | Check if the POWER LED of the transmitter and receiver is lighting or not? Their LINK LED should be lit.     |
|                                | If Their LINK LED should not be lit, you must re-pair their codes following the D. instruction of the manual |
|                                | Adjust receiver and transmitter antenna orientation  |
| Interference: picture or audio | Try to place transmitter and receiver in a more close-in location  |
|                                | If using a microwave oven, turn it off.  |
|                                | Remove microwave oven or wireless router from path between transmitter and receiver                          |
|                                |  |

## **B. Introduction**

Thank you for purchasing this 2.4GHz Digital AV Sender. This sender system is a digital wireless audio/video sender that uses 2.4GHz Frequency Hopping technology and GFSK modulation, and random ID codes to protect personal privacy.

There are over billion hopping sequences to minimize interference and deliver consistently an excellent video and audio quality up to 150 meters away.

Using this 2.4GHz Digital Wireless A/V Sender, you can enjoy greater convenience and security in many ways:

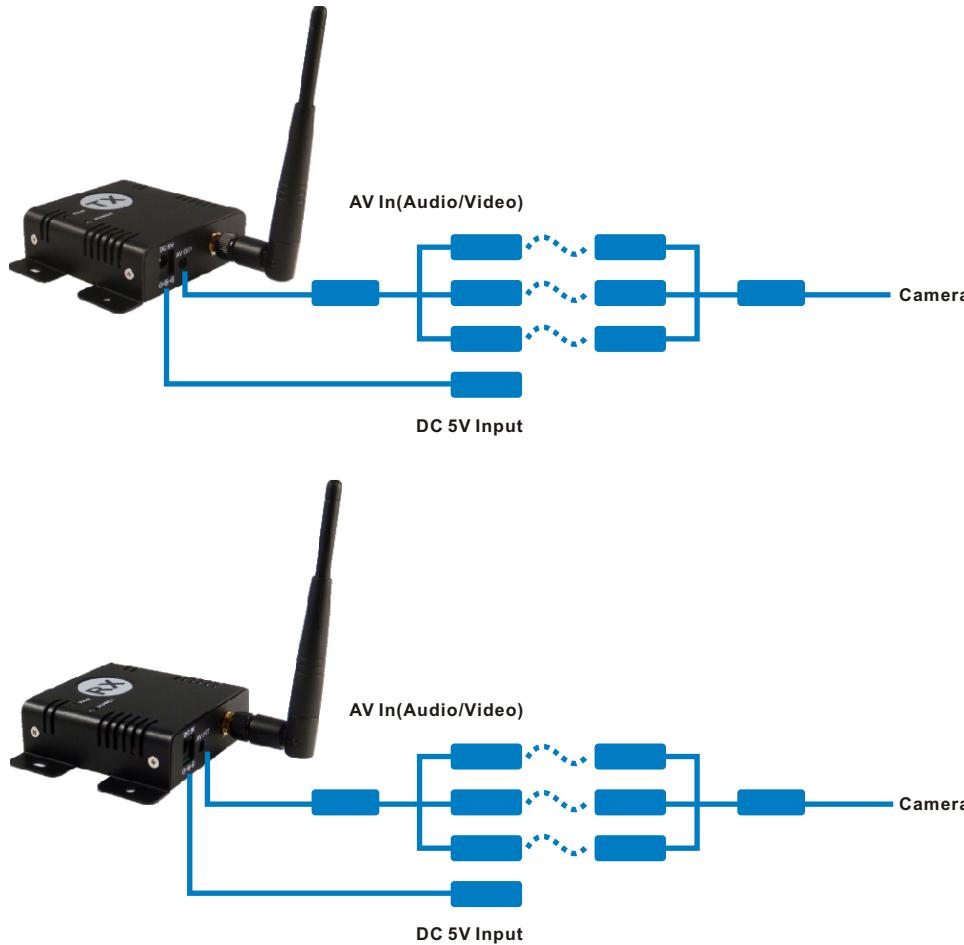
### **Safety & Security Application:**

- Connect a camera as a wireless security system.
- Monitor your sleeping baby, playing children, the elderly, or the disabled on TV using your existing camcorder.
- See who is outside the door on TV through your camera or miniature CCD camera.
- Monitors and records the meeting from another room.
- And many more uses!

## **C. Product Layout**



## D.Transmitter and Receiver Wire Connection



## E.Pairing the transmitter and receiver

Before shipment of these products, they have been matching by ID code, you can immediately instantly use. If wants to re-pair them, you have to follow the instructions as below:

- 1.Power on the transmitter and receiver by inserting the power adaptor jack.
- 2.Press the pair button of transmitter or receiver and not release until the power LED begin to flash, then release the pair button.
- 3.They will enter into the pairing state and automatically link to each other by ID code after step 2 finished.
- 4.Please don't turn off their power switch during the paring status.
- 5.When pairing successfully, the power LED for both will be lit directly (not flash)



Please note:

Pressing the pairing buttons for transmitter and receiver is not necessary at the same time, and they are not necessarily put near or side by side in pairing status, around within 3 meters far is OK

Under the transmission, you can see the strength on the monitor as below:

