

All New!

Model # **ETX-001**
5.8GHz Mini Transmitter

It's About Real-Time

OWNER'S MANUAL

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SAFETY NOTICES

- I. THIS DEVICE COMPLIES WITH FCC RULES PART 15.249 OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITONS:
 - (1) This device may not cause harmful interference, and
 - (2) this device must accept any interference, including interference that may cause undesired operation of the device

- II. In order to comply with the FCC/IC adopted RF exposure requirements, this transmission system will be installed by an authorized professional installer. Installation of all antennas must be performed in a manner that will provide at least 23cm clearance from the front radiating aperture, to any user or member of the public.

- III. This is NOT an intrinsically safe device. Do not take into area where intrinsic safety is required. Bodily harm may result if warning is ignored.

- IV. DO NOT OPERATE TRANSMITTER WITHOUT ANTENNA CONNECTED TO ANTENNA PORT. Failure to do so will result in damage to the unit and void the warranty.

- V. DO NOT OPERATE THE ETX-001 SYSTEM WHEN the Transmitter & Receiver are closer than ten feet to each other. The devices may not work properly and permanent damage can occur.

- VI. The device has been certified by the FCC for use with other products without any further certification (as per FCC section 2.1091.) Changes or modifications not expressly approved by VideoComm Technologies could void the user’s authority to operate the equipment.

The term “IC:” before the radio certification number only signifies that Industry Canada Technical specifications were met.



PARTS LIST

PARTS	
Mini Transmitter –	ONE
9 VDC Power Supply – 1.3mm barrel	ONE
Camera Video-Power Input Jumper Cable	ONE
9 Volt Snap Power Jumper Cables – 1.3mm	ONE
9 Volt Snap Power Jumper Cables – 2.1mm	ONE
AA Battery Pack Holder	ONE

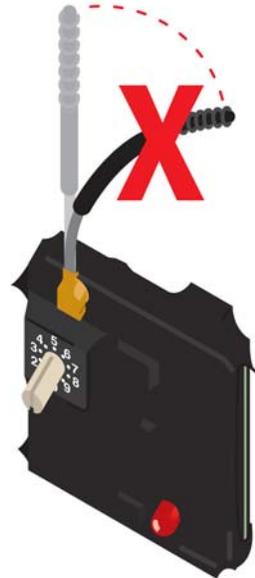


SYSTEM SETUP

Antenna

WARNING – DO NOT OPERATE TRANSMITTER WITHOUT ANTENNA CONNECTED TO ANTENNA PORT. Failure to do so will result in damage to the unit and will void the warranty.

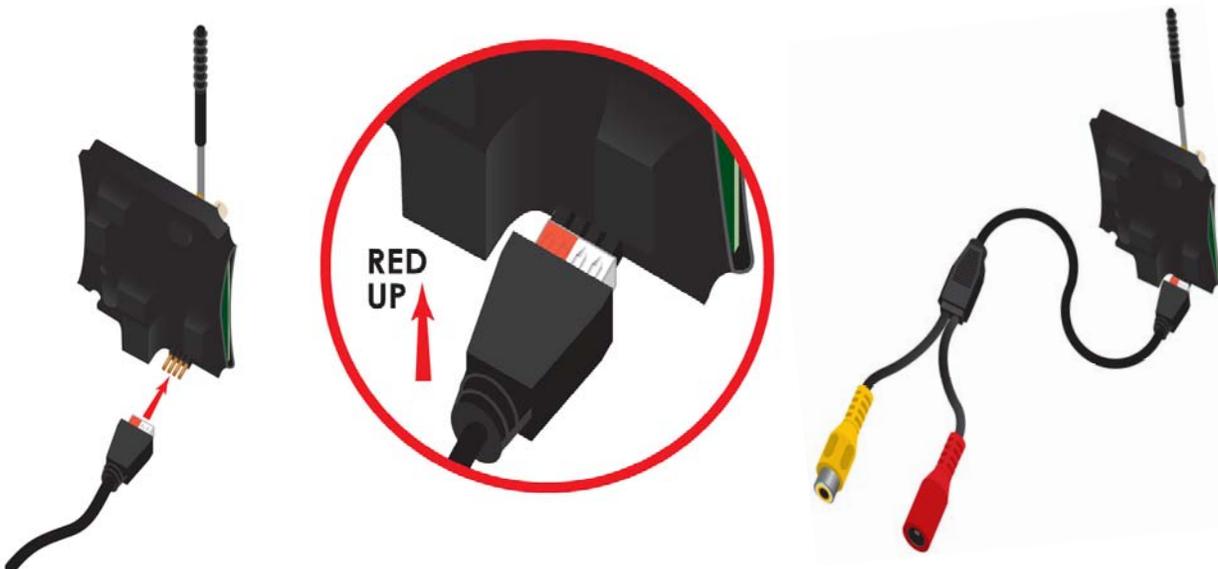
1. Antenna is a 360 degree omni-directional whip type antenna.
2. Ensure the mini antenna is firmly attached to the transmitter.
3. Do Not bend the black part of the antenna – permanent antenna damage can occur.



Video-Power Cable Connection

The ETX-001 is shipped with Video-Power cable attached. If the cable is removed and requires re-connecting, follow these steps carefully.

1. Carefully align the four-pin cable connector with the 4-male pins on the ETX-001 board
2. Push the four-pin cable connector onto the pins evenly. Do not twist or bend as you make connection.
3. For orientation – the four-pin cable connector has a red stripe – indicating “UP”
See diagram below – inserting the cable upside-down will cause damage.
4. Cable Assembly – **Video Input** = Yellow RCA-Female
- **Alternate DC Power Output** - Red 2.1mm Male barrel connector-
power source for camera – careful – No voltage regulation

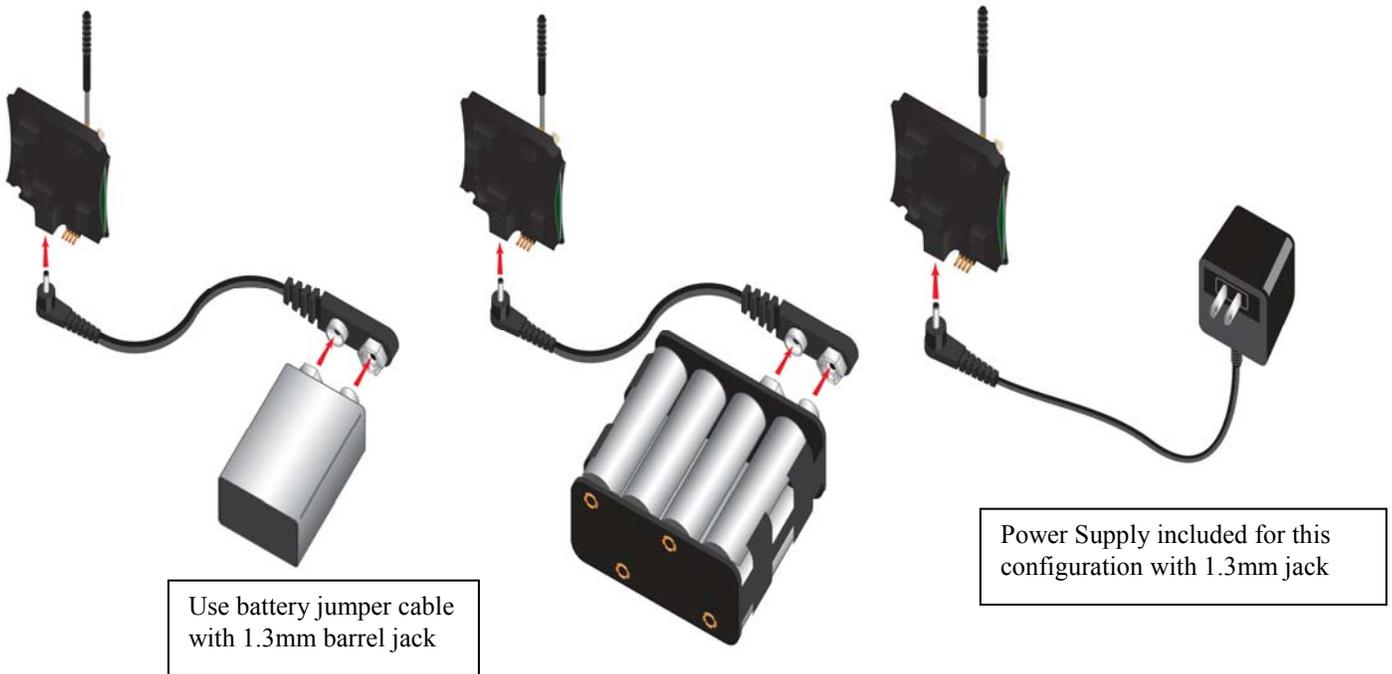


Power Input Connection Options

NOTICE: READ before proceeding - There are TWO formats for powering this transmitter. To avoid electrical shock and/or permanent damage to the device and peripheral devices, please read carefully !!.

POWER CONFIGURATION ONE > If using this configuration, The ETX-001 will operate from 8 -32 VDC and features a low noise switching voltage regulator with 90% + efficiency. This is the most efficient power input method and will benefit installation scenarios when using a battery – Extremely LOW current consumption.

1. Use the *9-Volt Snap Power Jumper Cables with 1.3mm barrel jack* (included) for battery source input OR the included *12 VDC power supply with 1.3mm barrel jack*.
2. Plug into bottom of transmitter directly –**RED** power indicator LED light will confirm power is ON.



***Note if using Battery source: there is no ON-OFF switch.
Transmitter operates immediately after power is connected.***



POWER CONFIGURATION TWO > If using this configuration, ETX-001 will operate from 8 -32 VDC and features a low noise switching voltage regulator with 90% + efficiency.

1. Use the included 9-Volt Snap Power Jumper Cables with 2.1mm barrel jack (included) for battery input
2. Power supply for this type of connection is optional and not included – Use any power supply rated for voltage range of 9-24 VDC or call VideoComm for part #
3. Plug into bottom of transmitter directly –RED power indicator LED light will confirm power.



Use battery jumper cable with 2.1mm barrel jack

Optional Power Supply not included for this configuration

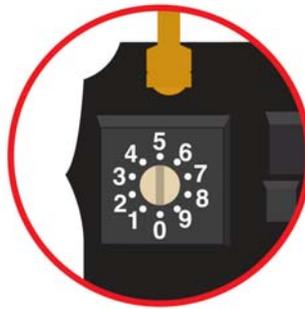


Note if using Battery source: there is no ON-OFF switch. Transmitter operates immediately after power is connected.

Channel Selection

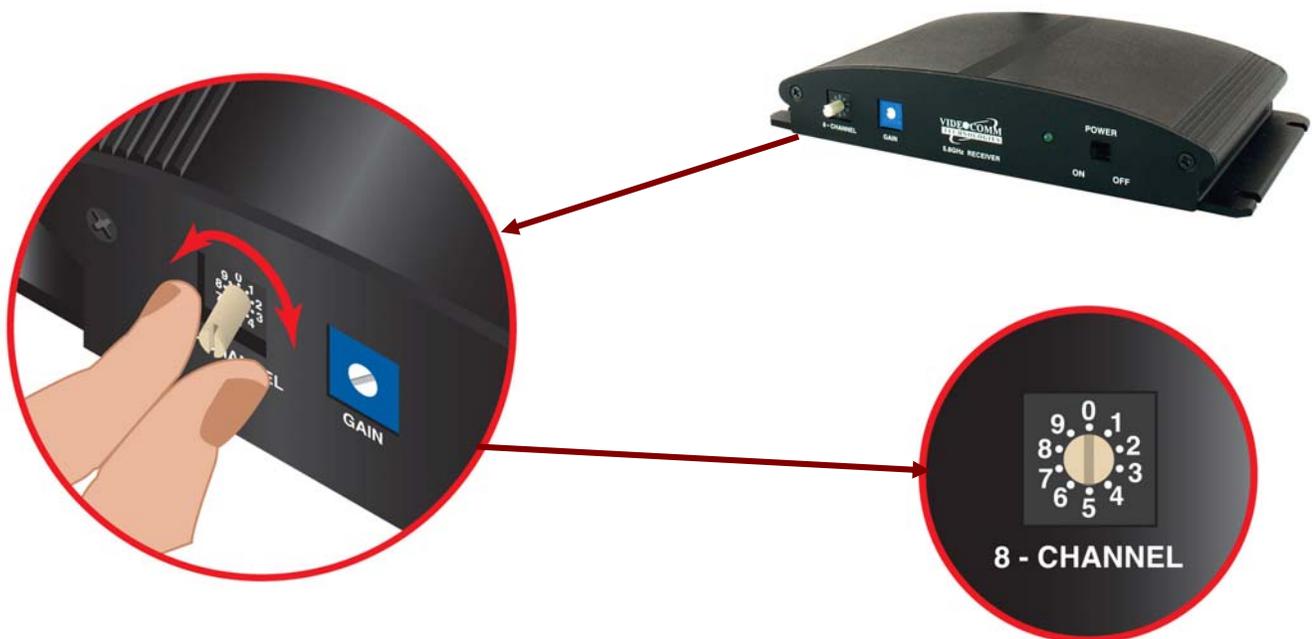
1. Power-UP the Transmitter as described in previous section.
2. Set the desired channel by turning the rotary switch to channels from 1 - 8
3. Repeat these steps for the receiver. The receiver must have the same and matching channel to receive the video signal.

TRANSMITTER



Channel # 1	5.733 GHz	Channel # 6	5.828 GHz
Channel # 2	5.752 GHz	Channel # 7	5.847 GHz
Channel # 3	5.771 GHz	Channel # 8	5.866 GHz
Channel # 4	5.790 GHz	Channel # 9	5.866 GHz
Channel # 5	5.809 GHz	Channel # 0	5.733 GHz

RECEIVER – Not Included



Conducting a Bench Test

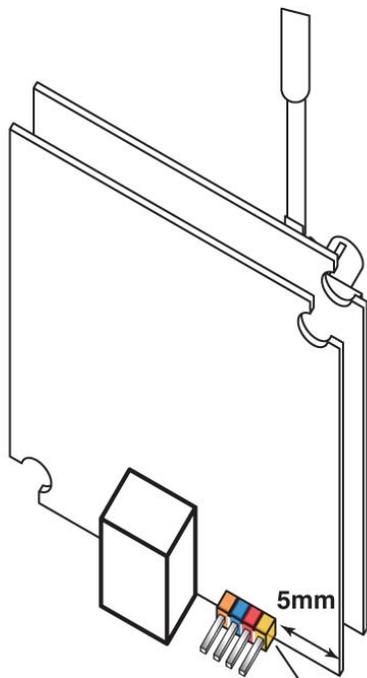
With so many technical variables in an installation, the strongest recommendation we can make is to conduct a bench test. After verifying that all components of the system are in good working order and connected properly, we can arrive on the job site confident that all of our devices will install with the least amount of on site effort.

Bench Testing Your 5.8GHz device

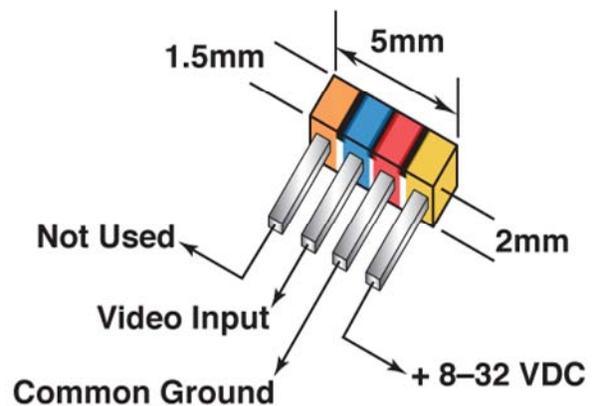
- Ensure there are no live wires on the test bench that may cause an electrical short.
- Ensure the camera and monitor used in the bench test and on site are in good working order by conducting a hardwired video test.
- Use a multimeter to ensure the power supplies have the proper voltage output. Connect a camera to the video input on the transmitter.
- Connect power supply leads to the transmitter & receiver.
- Use a separate power supply for each device. Do not share power supplies.
- Connect the Video Output from receiver to your monitor

Caution When Handling the Transmitter

- Before handling the transmitter, discharge any static electricity by touching a ground source.
- Do not bend or twist the circuit board – permanent damage can occur.
- If you remove the Video-Power Input Jumper Cables – RED side of connector is “UP” towards the antenna. The transmitter will not function if the jumper cable is inserted backwards.



PRIMARY VIDEO VOLTAGE REGULATOR
2 Pin x 2 8 - 32 VDC Pitch 1.27mm
90% + Efficient Switching Voltage Regulator



SPECIFICATIONS

Operating Frequency	5.725GHz – 5.875GHz, 8 User Selectable Channels
Radiated Power	50mV/m @ 3m
Range (Line-of-Sight)	Up to 1,000 feet Line-of-Sight / 300 feet indoors
Transmitter Antenna Type	0dB Fixed OmniDirectional
Video Format	NTSC and PAL
Modulation	FM - Frequency Modulation
Video Connector	RCA Female @ 75 Ohms 1 Volt P – P
Audio Connector	None
Temperature Range	-22 to +150 degrees Fahrenheit
Operating Voltage	8 - 32 VDC - Polarity Protected 90% + efficient, low noise switching voltage regulator
Current Consumption	40mA @ 12VDC
Dimensions	31.7mm x 31.7mm x 10.5mm
Weight	9 g OR 0.3oz
FCC / IC / CE Approved	Yes

