

Riverwind Supply Wireless Barn Camera Instructions

Multiple camera wireless barn set up.

Your system has been partially plugged together and color coded so that paired connections are easily identified when reconnecting. **DO NOT START IN THE BARN.** Place the barn side of the system at a location in your home or office where the receiver will connect to a TV or DVR to test the system. If you cannot get video on your TV troubleshoot the system with a technician while all items are in one location.

PLEASE TEST RUN THE SYSTEM. IF THE SHIPMENT WAS MANHANDLED DURING TRANSIT, A TRANSPONDER CHIP MAY LOOSEN IN THE RX OR TX SHUTTING THE SYSTEM DOWN. MOST TIMES WE CAN REMEDY THIS PROBLEM ON THE PHONE SO TEST RUN IT (TO THE tv) IN THE HOUSE FIRST.

It is sometimes easier to place the barn side equipment marked TX (for transmitter) on a counter or table, then locate the house side equipment marked RX (for receiver) at a different spot in the same room. **NEVER PLACE THE TRANSMITTER AND RECEIVER CLOSER THAN 1 FOOT TO EACH OTHER WHEN RUNNING.**

1. Connect the included antennas to the RX and TX units. **DO NOT PLUG THE UNITS IN YET.**
2. **NEVER POWER A TRANSMITTER OR RECEIVER WITH THE ANTENNAS DISCONNECTED. IT WILL DAMAGE THE UNIT.**
3. Connect the receiver marked RX to your TV or DVR. The receiver has 2 video outputs and 2 audio outputs. All will work. Patch cables have been included to connect to the TV. Should you need to extend the RX further away from the TV, most electronic stores carry various lengths of this RCA cable.
4. Connect the 12 volt/AC power supply to the power plug on the RX (if not connected).
5. Your television should be on the Video channel (not channel 3). Some TV's may refer to this channel as AV, Line IN, AUX or simply VIDEO. Newer TV's generally having a source button on the TV or remote. Your TV may require you to enter the setup menu to select this channel (older TV's). Some newer TV's have replaced the standard yellow input with a green video input. This may or may not work with the RX's video output (depends on TV). If in doubt, refer to your televisions instruction manual. The barn camera system is "composite video". Some newer TV's share a green jack for composite and component, you may need to enter the TV's setup to select "composite"
6. With the RX connected, the TV should show LINK FAILED if on the proper channel.
7. Connect the barn side equipment for a test run.
 - a. It is not necessary to connect all cameras for a test set up. You should connect the transmitter and cable to the switching unit, and at least one camera and cable to the switching unit. Power all three and see video
 - b. The transmitter marked TX has been color coded and plugged to a cable. If disconnected, reconnect Brown to Brown (video) and Green to Green (power) if audio then White to White. The unconnected end has a video line with a tag marked

- “To Switcher Video output” and a power line coded “Purple”. Connect the tagged line to the VIDEO OUT on the rear of the switcher. The BNC connections require a slight push and turn to connect. Connect the “purple” coded power line to an AC adapter
- c. The Cameras color coded Yellow to Yellow (video) and Blue to Blue (power) match them to a cable. The unconnected end has a video line with a tag marked “To Switcher Video Input” and a power line coded “Red”. Connect the tagged line to a VIDEO INPUT on the rear of the switcher. The BNC connections require a slight push and turn to connect. If your camera has audio, a third white wire is unlabeled. This will plug into the audio jack that corresponds with the video input plug you just connected.
 - d. “STEP C” would be repeated for all cameras in the barn.
 - e. On the Switching Unit, select the toggle switch for the test camera to “Home”. Home will select that camera full time, Auto will place the camera(s) in the rotation sequence and Bypass will eliminate it from the rotation sequence. The dwell adjustment (some units require a small screwdriver to turn) sets the speed of the rotation, but leave it maxed to 20 seconds or you’ll increase error codes.
 - f. Plug in the 12 volt / AC power supplies and turn on the switching unit. Be sure that each camera cable and the line to the TX unit all have power connected.
 - g. You should have video.

If you do not have video on your TV, check all power and video connections. The most common problem in setting up this system is putting the TV on the incorrect channel. If you are unable to trouble shoot the problem. Call Tech Support while the system is still connected and in the house. Do not install the system until you have working video.

Barn side installation

Once video has been established, install the barn components. Disconnecting the camera, cables, switching unit and transmitter (TX) may be required. The video connections between the transmitter, cable and camera are BNC type connectors and require a slight push and turn to disconnect. NEVER FORCE A CONNECTION and NEVER PULL ON A WIRE. Always grasp the connectors not the wire or cables.

Mount the camera. Corner placement usually works best. If you think you may move the camera, or will require several tries to find the appropriate placement, mount the camera on a small board then mount the board. The connection jacks between the cable and camera are color coded. They are for video and power. If your system has audio, an inline microphone will be placed on the 3rd white cable near the camera. This microphone has a white audio connection and two power connections. One power connection (female) accepts power from the cable. The other connection jack (male) passes this power on to the camera. If you remove this microphone, the cable power must be reconnected to the camera. Hardware to mount the camera and an adjustment tool may be included in the camera packaging if the adjustment is not a Phillips screw. It is sometimes easier to mount the camera to a small board then secure the board to the barn especially if you have to move it to get it where you want it.

Run the cable to the Switching Unit Location.

Pay special attention to the colored connections. This cable has a male and female power connection much like an extension cord. If placed backwards, it will not connect properly.

This system is pre-connected and color coded to place the power supply at the switcher site. Power at the camera location is not required, only by the switching unit

Mounting the transmitter.

The transmitter should be mounted on the OUTSIDE of your barn facing the house in an area where the view from the house is the least obstructed by buildings or trees. The transmitter must be mounted at least 7 feet off of the ground and no more than 16 feet for optimum coverage. Be sure the antenna is connected to the TX prior to powering the system. Once installed, position the antenna so it is vertical to the ground.

Run the cable to the Switching Unit Location

Pay special attention to the colored connections. This cable has a male and female power connection much like an extension cord. If placed backwards, it will not connect properly.

This system is pre-connected and color coded to place the power supply at the switcher site. Power at the TX location is not required, only by the switching unit

Once a video link is reestablished between the transmitter and receiver, you should see video on the TV. Intermittent screens of No AV Input are normal but should only last one to two seconds. Extended periods mean a camera or cable has a problem. Link failed means that the TX and RX cannot see each other or that you have lost power on the TX unit.

The following connection colors are used.

BROWN - TX video line to cable

GREEN - Power on cable to TX

YELLOW - cable video line to camera video line

BLUE – cable power line to camera power line

WHITE – cable audio line to microphone and cable audio to transmitter (only if you have audio)

RED camera cable power line to AC adapter (by switcher).

PURPLE TX cable power line to AC adapter (by switcher)

If an adapter has colored tape on it, that is the color. Ignore the connector's factory color. If it has no tape, it is considered the factory made color as your reference.