



Plug one end of the Video cable into the BNC connector on the camera, and the other end into the BNC connector on the transmitter.

Connect male XLR audio cables to the female XLR connectors on the rear of the transmitter using a Line Level audio source.

Turn on camera. The GREEN LED will begin to flash fast.

The faster the flashing GREEN LED the higher quality link is established.

**CAUTION:**

If the LED is flashing slowly, this indicates that the link is not guaranteed.

Move the receiver antennas to a more suitable location to gain 'line of sight'.





### 8.3 SYSTEM STATUS INDICATOR

The following table shows the LED indicators on the RFX-NLL.

#### LED Status

<b>RED</b>	<b>System Power on</b>
<b>YELLOW flashing</b>	<b>Signal survey / searching (this can take up to 1 minute in the event of heavy RF traffic)</b>
<b>YELLOW</b>	<b>Locked on Channel</b>
<b>GREEN flashing</b>	<b>Data rate (fastest flash = best data rate flow)*</b> <b>*Light on more than off</b>
<b>GREEN flashing (blinking) slowest</b>	<b>No video at TX (periodic blink only = no video)*</b> <b>*Light off more than on</b>

#### Remote LED Status Cable

<b>RED</b>	<b>Communicating</b>
<b>RED flashing</b>	<b>Lost Communication</b>
<b>GREEN flashing</b>	<b>Higher Data Rate</b>
<b>GREEN flashing slow</b>	<b>Lower Data Rate</b>



## 9 FREQUENTLY ASKED QUESTIONS

### Q. What do I do if the picture starts to break up?

A. Turn both the receiver and the transmitter off and on again. This will reset and allow the RFX-NLL-II to select a different channel to use.

### Q. What if the LED indicators flash yellow?

A. Make sure that the TX and RX are on matching frequency bands (5.8 GHz). Check that you are supplying 8 – 18 volts DC to the RFX-NLL-II. Reduce the distance and turn the RFX-NLL-II off and on again. It can take up to 60sec for the TX and RX to lock.

### Q. What if the LED indicators are yellow but I am not receiving any video or audio?

A. If the LED indicators are YELLOW with a quick GREEN blink, then the RFX-NLL-II is transmitting information and is working correctly. The GREEN slow flashing indicates there is no video at the TX side or there are weak signal conditions. Check cable connections between the transmitter and the camera, the monitor and the receiver, or try a closer distance between the units.

### Q. What if I am using the RFX-NLL-II within recommended distance guidelines and it is not working properly?

A. Always maintain a line of sight between the transmitter and receiver wherever possible, as microwave transmission doesn't work well through walls or structures. Mount the receiver as high as possible internally or externally with a clear line of sight to the camera for best results. Solid walls like brick, concrete, steel and insulated walls dramatically reduce the range of the RFX-NLL-II.

### Q. Does the RFX-NLL-II interfere with WiFi 802.11 A, B or G?

A. No, because the layers are fundamentally different and the two systems do not communicate or interfere with one another.

The RFX-NLL-II automatically scans the frequency spectrum and avoids any other channels occupied by other networks. When using more than one system within a small area ensure the distance between the receivers exceeds 15 feet (5 meters), as the receivers could interfere with one another.



**Q. What do I do about audio delay if taking a separate audio source to ensure the audio is in sync with the video?**

A. Due to the RFX-NLL-II's error-correcting technology you will experience approximately 12 frames of delay. To correct this, simply delay your audio source at the same time as the video output.

We recommend the **BEHRINGER SHARK DSP110**:  
[www.behringer.com/DSP110/index.cfm?lang=ENG](http://www.behringer.com/DSP110/index.cfm?lang=ENG)

This delay unit will allow you to sync your audio feed with the pictures being transmitted by the RFX-NLL-II and is inexpensive and user friendly.

**Q. What do I do if I am having audio problems at the receiver?**

A. Verify audio in at the headphone jack or check audio connector at the transmitter.

**Q. What do I do if the RFX-NLL-II becomes wet during use?**

A. Disconnect power supply immediately. Dry the RFX-NLL-II with a cloth to remove excess water and leave to dry completely for 24 hours before attempting to re-use.



## 10 CONTACT INFORMATION

Sales / Rentals / RF ExtremeCare  
Technical Support Team

RF Central  
99 Garden Parkway  
Carlisle, PA 17013  
USA

717.249.4900 (telephone)  
717.249.3630 (fax)  
866.732.0113  
[sales@rfcentral.com](mailto:sales@rfcentral.com)  
[extremecare@rfcentral.com](mailto:extremecare@rfcentral.com)  
[www.rfcentral.com](http://www.rfcentral.com)



## 11 Appendix A - SPECIFICATIONS

### 11.1 Video

Video	MPEG-2 SD resolution, full frame rate Auto select 4 Mb/s, 8 Mb/s, 16 Mb/s Composite
Standard	NTSC / PAL auto select
Audio	2 Channels Analog audio 0 dBm Line Level in
Latency	465 ms (12 frames)

### 11.2 RF Information

Transmission method	OFDM
Range	Outdoors over 1000 ft / 350 m line of sight indoors with internal walls approx 70 ft. / 30 m
Security	Pre-shared key encryption
Channel select	Automatic selection within frequency band (multiple channels)
Frequency	5.8 GHz
Reception sensitivity	-76 dBmW typical
Power	50 mW

### 11.3 Other

System indicators	Signal lock status / data rate / video loss at TX
Unit Weight	14 1/2 oz (410g)
Dimensions	6" x 3 7/8" x 3/4" (152mm x 98mm x 19mm)
Power	8-18V DC (10.5-38v optional) 0.45amps @12v
Temperature	Range -10 to 48 C
Humidity	5% - 85% typical
Range	Approximately 1500 feet (dependant on environmental conditions)