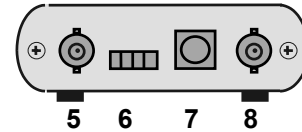
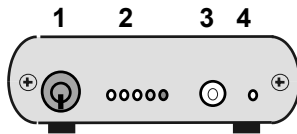


WIRELESS VIDEO-AUDIO RECEIVER

Model CVR-1000

Front

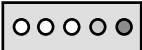
1. Power On/Off switch with switch guard
2. Signal strength, low battery and frequency lock indicators
3. Channel selector switch
4. Audio output level control



Rear

5. Video output jack (BNC)
6. Barrier strip connector for power and audio
7. Mini-DIN input connector for power & audio
8. Antenna input jack (BNC)

Features:

- The five section signal strength indicators are a real help in evaluating location, antenna position and range.  The first three lights are green showing excellent to moderate signal strength. The next light is yellow, warning of a weak signal. The red light means that the signal is probably not usable.
- The red LED light also serves as a low battery warning by blinking when the battery falls to 10.5 volts.
- Receiver performs a self check when first turned on
- When another channel is selected, a green light will blink to let you know that the internal phase lock circuitry is functioning properly and will stop blinking once it has achieved frequency lock.
- Two parallel power & audio connectors are provided -- a 4 terminal barrier strip & a 4 pin mini-DIN -- use whichever is most convenient for your application.
- The receiver may be attached to a wall using a slide-on bracket, placed on a desk or mounted to an irregular surface with the hardware provided.
- 10 User selectable channels; up to 3 may be in operation in the same area
- Changeable color coded plastic side panels may be inserted to distinguish operating frequency used between multiple transmitter and receiver sets
- No license required: US/ Canada approvals under FCC part 15 & IC RSS-210 (Canada)
- Works from a 12 or 24 Volt battery or AC Adaptor
- An Audio level control is available to precisely match the CVR-1000's audio output to your equipment

Industrial Systems:

CVR-1000 Receiver with regulated 12 VDC power supply, antenna, bracket, connectors manual and the following transmitters:

S-510 includes:

1 CVT-500 Transmitter with regulated 12 VDC power supply

S-1010 includes:

1 CVT-1000 Transmitter with regulated 12 VDC power supply, antenna & bracket.

Professional Systems:

CVR-1000 Receiver with regulated 12 VDC power supply, antenna, connectors manual and the following Transmitters:

S-510P includes: Fitted Pelican carrying case
1 CVT-500 Transmitter with power connector for 12VDC operation.

S-1410 includes: Fitted Pelican carrying case
1 CVT-1400 Transmitter with Neutrik MiniCon multi-connector & antenna.

S-1510 includes: Fitted Pelican carrying case
1 CVT-1500 Transmitter with Neutrik MiniCon multi-connector & antenna.

SPECIFICATIONS

RECEIVER

Model CVR-1000

Operating distance: 1000 ft (305m) line of sight (US / Canadian version), more or less depending on conditions, antennas used, elevation, etc. Government & Export version will have considerably more range.

Operating Frequency: 902-928 MHz in 10 user selectable channels. Up to 3 channels may be used in the same area simultaneously.

Receiver Type: FM, Single conversion superheterodyne with frequency control via synthesized phase locked loop, crystal referenced.

Noise figure

<2 dB

Frequency stability (-20 to +70°C)

0.003%

Video System:

NTSC or PAL

Video level (internally adjustable):

1.0 Volt p-p into 75 Ohms

Impedance:

75 Ohms

Video bandwidth:

10 Hz to 3.0 MHz ± 1 dB typical ± 1 dB 10Hz - 4.2MHz

10 Hz to 5.5 MHz +1, -3 dB

Video signal to noise ratio referenced to:

Received Signal Strength Indicator (RSSI)

1st green light

RF level -40 dBm Video SNR 60 dB 64 dB typical

2nd green light

RF level -50 dBm Video SNR 55 dB 60 dB typical

3rd green light

RF level -60 dBm Video SNR 52 dB 55 dB typical

Yellow light

RF level -70 dBm Video SNR 45 dB 48 dB typical

Red light

RF level -80 dBm Video SNR 30 dB 34 dB typical

Differential Gain at -40 dBm RF input

5 % typical 3%

Differential Phase at -40 dBm RF input

5° typical 4°

Audio Output (except with CVT-500 & CVT-M)

All dB figures referenced to 0 dB = 0.774Vrms

Line output (Receiver) adjustable from:

0 dB to +10 dB at +/- 50 kHz Deviation.

Frequency response at 20 dB below full deviation:

40 Hz to 15 kHz +1, -3 dB, 60 Hz to 10 kHz ± 1 dB

(may be extended to -3 @ 30kHz.)

Total harmonic distortion (before limiting):

0.5% at 400 Hz, 0.25% typical

Audio Modulation Type:

FM

Maximum deviation :

± 75 kHz

System signal to noise ratio at 50 kHz deviation:

65 dBA

Pre & de-emphasis:

75 μ Second

Audio Carrier Offset from Video:

6.5 MHz

Power:

12 VDC (10.5-30 V)

Current consumption

220 mA at 12 VDC

Mechanical

Size

3.7W x 6.2L x 1.2H in (98 x 155 x 30mm)

With connectors & bracket

3.7W x 7.9L x 1.4H in (98 x 201 x 36.8mm)

Weight

13.6 oz (385 g)

With connectors & bracket

17.1 oz (486 g)

Antenna connector

50 Ohm BNC

Video output connector

75 Ohm BNC

Power & audio output connector

4-pin mini-DIN & 4 terminal barrier strip in parallel

Environmental

Operating temperature

-20°C to +60°C (-4°F to +131°F)

Storage temperature

-40°C to +75°C (-40°F to + 152°F)

Humidity (non-condensing)

90%

Approvals: FCC & Industry Canada No licensing required under FCC part 15.249 & IC RSS-210 for standard systems. Higher power systems transmitter has four power levels for Government or Export applications.

Specifications subject to change without notice.

Made in the USA

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