

# IM-RXV1-M

## iMedia Receiver, Single IM Input plus Microphone

Crestron's iMedia provides an extremely simple and affordable multimedia presentation control solution for small conference rooms and training rooms. No comparable solution comes close to matching iMedia's speed and ease of installation, intuitive operation, and network manageability at such an incredibly low cost.

### The iMedia Transport

The iMedia transport utilizes a single CAT5e\* type cable to transmit computer RGB, video, and stereo audio signals to a single projector or plasma display. A typical XGA signal (1024 X 768 pixels at 60Hz) can be transmitted up to 84 feet using iMedia, while higher resolutions up to 1600 x 1200 can be handled over shorter distances. Audio is transmitted digitally at 20-bit, 48 kHz resolution. Control and power signals are also contained on the same wire, eliminating the need for separate control or power cables.

### iMedia Receiver

Mounted at the projector or plasma display, the IM-RXV1-M receives the iMedia (IM) signal from a single IM transmitter, breaking out the RGB, video, audio, and control signals for connection to the display device. Adjustable bandwidth compensation is provided to maximize image quality over long cable runs.

### Integrated Amplifier

The IM-RXV1-M includes a built-in 20 watt stereo amplifier to drive a pair of 8 ohm speakers. Balanced line-level outputs are also provided to allow the audio signal to be connected directly to inputs on the display device or fed to a pair of powered speakers. Onboard digital signal processing affords adjustment of audio levels, plus bass, treble, and balance settings at setup via software.

### Wireless Microphone Input

The inclusion of a balanced line input allows the connection of a microphone mixer, wireless receiver, or preamp to support speech reinforcement capabilities. Microphone level is adjustable right at the IM transmitter† by holding the SELECT button and turning the VOLUME knob.

### Display Control

The IM-RXV1-M contains both IR and bidirectional RS-232 ports to enable full control of the display device. Two relay ports are also included for control of a projection screen or lift. In addition, the three digital input ports can accept the direct connection of room occupancy sensors and power sensors for enhanced automation and monitoring.

### e-Control@2 and RoomView®

Despite its simple design and low cost, the IM-RXV1-M supports Crestron's powerful e-Control 2 XPanel and RoomView applications, delivering the industry's best help desk and resource management solution for any number of rooms equipped with iMedia.

### Fast, Easy Setup

System setup takes mere minutes using iMedia Wizard software, providing easy start-to-finish configuration, adjustment, and documentation.

> A simple, affordable solution for single-display multimedia presentation



> Supports XGA resolution up to 84 feet, UXGA maximum up to 34 feet

> Supports composite video signals

> Built-in LAN, RS-232, IR, relays and digital input control ports

> NEW! Audio line input for wireless microphone

> Built-in 20W stereo amp and line outputs

> Complete setup in minutes using iMedia Wizard Software

> Built-in Web-server supports e-Control 2 and RoomView

## SPECIFICATIONS

### RGB

Gain: 0dB (75 ohm termination)

Formats: RGBHV, RGBS, or RGsB

Resolution: 1024 x 768 @ 60Hz with maximum cable length of 84 feet, 1600 x 1200 @ 60Hz with maximum cable length of 34 feet; see manual for other resolutions

### Video

Gain: 0dB (75 ohm termination)

Formats: 480i (NTSC), 576i (PAL)

### Audio

D-A Conversion: 20-bit, 48 kHz

Bass/Treble Gain Range:  $\pm 12$ dB

Frequency Response: 20Hz to 20kHz  $\pm 0.5$ dB (line), 20Hz to 20kHz  $\pm 1$ dB (speaker)

S/N Ratio: 82dB (line), 80 dB (speaker) 20Hz to 20kHz A-weighted

THD+N: 0.05% (line), 0.7% (speaker) 20Hz to 20kHz

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## Ethernet

10/100BaseT, static IP or DHCP/DNS, auto-negotiating, built-in Web server, supports Crestron e-Control 2 XPanel and RoomView applications

## Connectors - Front Panel

**IM:** (1) 8-wire RJ45 female, iMedia input port;  
Connects to IM output port of an iMedia transmitter† via CresCAT-IM cable\*  
**AUDIO:** (1) 5-pin 3.5mm detachable terminal block;  
Balanced stereo line-level audio output;  
Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced;  
Output Impedance: 200 ohms balanced, 100 ohms unbalanced  
**SPEAKER L - R:** (2) 2-pin 5mm detachable terminal blocks;  
Left and Right speaker-level audio outputs;  
Output Power: 10 Watts per channel;  
Minimum Impedance: 8 ohms

## Connectors - Rear Panel

**18VDC 3.0A:** (1) 3-pin DC power jack (power supply included)  
**RELAY OUTPUT 1 - 2, INPUT 1 - 3, IR, G:** (1) 9-pin 3.5mm detachable terminal block comprising:

- (2) normally open, isolated relays;
- (3) digital input ports referenced to ground;
- (1) IR output port;

Relay Rating: 2 Amp, 50 Volts AC/DC, MOV arc suppression;  
Digital Input Rating: 0-24 Volts DC;  
Digital Input Impedance: 2k ohms pulled up to 5 Volts DC;  
Digital Input Logic Threshold: 2.5 Volts DC nominal;  
IR Output Frequency: Up to 1.2 MHz;  
Note: IRP2 IR emitter probe sold separately  
**MIC:** (1) 3.5mm TRS mini-phone jack;  
Balanced mono line-level audio input;  
Maximum Input Level: 2 Vrms balanced, 1 Vrms unbalanced;  
Input Impedance: 18k ohms balanced/unbalanced  
**COMPUTER:** (1) 6-pin RJ11 female, computer console port  
**LAN:** (1) 8-Wire RJ45 with 2 LED indicators  
10/100BaseT Ethernet port  
Green LED indicates link status  
Yellow LED indicates Ethernet activity  
**COM:** (1) DB9 male, bidirectional RS-232 port;  
Up to 115.2k baud;  
Hardware and software handshaking support  
**VIDEO:** (1) RCA female, composite video output;  
Output Impedance: 75 ohms;  
Output Level: 1 Vp-p nominal  
**G:** (1) 6-32 screw, chassis ground lug  
**RGBHV:** (1) DB15HD female, RGB output;  
Formats: RGBHV, RGBS, RGsB;  
Output Impedance: 75 ohms;  
Sync Impedance: 100 ohms;  
Maximum Output Level: 1 Vp-p maximum  
Sync Level: 5 Vp-p

## Controls

**IM:** (1) Screwdriver-adjustable bandwidth compensation (peak) adjustment  
**SW-R:** (1) Recessed pushbutton for software reset

## LED Indicators

**PWR:** (green) Indicates power connected to 18VDC connector  
**INPUT:** (red) Indicates activity on any input port  
**IR:** (red) Indicates activity on IR port

## Power Requirements

**IM-RXV1-M:** 3 Amps @ 18 Volts DC  
**PW-1830RU Power Supply (included):** <1.6 Amps @ 100-240 Volts AC

## Environmental

**Temperature:** 41° to 104°F (5° to 40°C)  
**Humidity:** 10% to 90% RH (non-condensing)

## Enclosure

Black metal; freestanding, surface mount using "L" brackets provided, or pole mount using optional pole mount kit (sold separately)

## Dimensions

**Height:** 1.62 in (4.10 cm)  
**Width:** 8.75 in (22.23 cm)  
**Depth:** 7.69 in (19.53 cm)

## Weight

1.75 lbs (0.80 kg)  
\* For iMedia use CresCAT-IM cable, or quality CAT5e/CAT6 cable having a maximum delay skew of 15nS per 100m.

† For full functionality including local microphone level control, use only with an iMedia transmitter that includes the '-M' suffix in its model number.

## Available Models

**IM-RXV1-M:** iMedia Receiver with Video and Microphone, single IM input

## Included Accessories

**PW-1830RU** Power Pack for IM Receivers, 18 VDC, 3A Regulated, US/International 120/230 VAC [Included Quantity: 1]

## Available Accessories

**CNSP-XX:** Custom Serial Interface Cable  
**CNXRMCS:** TV Current Sensor  
**CRESCAT-IM-P-DRN-SP1000:** iMedia Cable, Low-skew CAT5e w/drain wire for iMedia and QuickMedia, plenum, 1000 ft spool  
**CRESCAT-IM-P-DRN-SP500:** iMedia Cable, Low-skew CAT5e w/drain wire for iMedia and QuickMedia, plenum, 500 ft spool  
**IRP2:** IR Emitter Probe  
**MK-IM-RX:** Pole Mount Bracket

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