Crestron IM-RXV1-M & IM-RXV3-M iMedia Receiver with Video and Mic Input Operations & Installation Guide



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iMedia Receiver with Video and Mic Input: IM-RXV1-M & IM-RXV3-M

Introduction

Crestron's iMedia (IM) 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 incredibly low cost.

Models with one (IM-RXV1-M) or three (IM-RXV3-M) IM transmitter inputs are available.

Features and Functions

- A simple, affordable solution for single-display multimedia presentation
- iMedia Transport for fast and easy single-cable installation
- Supports XGA resolution up to 84 feet, and UXGA up to 34 feet
- Supports composite video signals
- Built-in LAN, RS-232, IR, relays and digital input control ports
- Audio line input for wireless microphone
- Built-in 20 watt stereo amplifier and line-level outputs
- Complete setup in minutes using iMedia Wizard Software
- Built-in Web server supports e-Control[®]2 and RoomView[®]

The iMedia Transport

The iMedia transport utilizes a single CAT5e* type cable to transmit computer RGB, video, and stereo audio signals to a single display device. A typical XGA signal (1024 X 768 pixels at 60 Hz) can be transmitted up to 84 feet using iMedia, while higher resolutions up to 1600 x 1200 can be handled over shorter distances. Composite video signals can be transmitted up to 218 feet. 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.

* For iMedia use CresCAT-IM cable, or quality CAT5e/CAT6 cable having a maximum delay skew of 15ns per 100m.

iMedia Recevier

Mounted at the display device, the IM-RXV1-M and IM-RXV3-M receive the iMedia signal from up to three IM transmitters, 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 and IM-RXV3-M include 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 wireless microphone receiver, audio mixer, or mic 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 and IM-RXV3-M contain 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 their simple design and low cost, the IM-RXV1-M and IM-RXV3-M support 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.

Applications

The IM-RXV1-M and IM-RXV3-M are part of the Crestron[®] iMedia line of network devices, room control systems and signal routing solutions. The line of iMedia devices includes receivers and transmitters. Consult the Crestron website (<u>http://www.crestron.com/</u>) for a complete and current listing of the iMedia product line.

NOTE: The composite video output of the IM-RXV1-M and IM-RXV3-M are not enabled when using the iMedia transmitters without composite video inputs.

The IM-RXV1-M and IM-RXV3-M can be placed on a table or mounted to a surface using the included brackets. These receivers can also be mounted to a pipe using the optional pole mount kit MK-IM-RX.

NOTE: The IM-RXV1-M and IM-RXV3-M are not Cresnet[®] devices.

The IM-RXV1-M and IM-RXV3-M are part of a family of compatible iMedia devices, all capable of working together to put on simple to complex media presentations. The following diagrams show the IM-RXV1-M and IM-RXV3-M in typical one-room installations.

IM-RXV1-M in a Typical Installation for Media Presentation



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IM-RXV3-M in a Typical Installation for Media Presentation

Specifications

Specifications for the IM-RXV1-M and IM-RXV3-M are listed in the following table.

IM-RXV1-M and IM-RXV3-M Specifications

SPECIFICATION	DETAILS
RGB	
Gain	0 dB (75 ohm termination)
Formats	RGBHV, RGBS, or RG₅B
Resolution	1024 x 768 @ 60 Hz with maximum cable length of 84 feet, 1600 x 1200 @ 60 Hz with maximum cable length of 34 feet; refer to "Video Resolution and Cable Length" on Page 13 for other resolutions
Video	
Gain	0 dB (75 ohm termination)
Formats	480i (NTSC), 576i (PAL)

(Continued on following page)

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SPECIFICATION	DETAILS
Audio	
D-A Conversion	20-bit, 48 kHz
Bass/Treble Gain Range	±12 dB
Frequency Response	20 Hz to 20 kHz ±0.5 dB (line), 20 Hz to 20 kHz ±1 dB (speaker)
S/N Ratio	82 dB (line), 80 dB (speaker) 20 Hz to 20 kHz A-weighted
THD+N	0.05% (line), 0.7% (speaker) 20 Hz to 20 kHz
Ethernet	10/100 BaseT, static IP or DHCP/DNS, auto-negotiating, built-in Web server, supports Crestron e-Control 2 XPanel and RoomView applications
Power Requirements	3 Amps @ 18 Volts DC
Environmental	
Temperature	41º to 104ºF (5º to 40ºC)
Humidity	10% to 90% RH (non-condensing)
Thermal Dissipation	100 BTU/Hr
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)
Included Accessories	
PW-1830RU	Power Supply
Available Accessories	
MK-IM-RX	Pole Mount Kit
CNSP-XX	Custom Serial Interface Cable
IRP2	IR Emitter Probe
CNXRMCS	Current Sensor

IM-RXV1-M & IM-RXV3-M Specifications (Continued)

Physical Description

This section provides information on the connections, controls and indicators available on your IM-RXV1-M and IM-RXV3-M.

IM-RXV1-M Physical Views (Front and Rear)



IM-RXV3-M Physical Views (Front and Rear)



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IM-RXV1-M & IM-RXV3-M Overall Dimensions

(Continued on following page)



IM-RXV1-M & IM-RXV3-M Overall Dimensions (Continued)

Connectors, Controls & Indicators

#	CONNECTORS ¹ , CONTROLS & INDICATORS	DESCRIPTION
1		 (1) 8-wire RJ-45 female (three on IM-RXV3-M), iMedia input port(s); Connect(s) to IM output port(s) of an (up to three) iMedia transmitter via CresCAT[™]-IM cable².
		(1) Screwdriver-adjustable bandwidth compensation (peak) adjustment (three on IM-RXV3-M). The peaking control is used during setup for video cable length compensation. Refer to "iMedia Wizard Configuration" on page 16 for additional details.
2	AUDIO + - G + - L [(1) 5-pin 3.5mm detachable terminal block; Balanced stereo line level audio output; Maximum output level: 4 V_{rms} balanced, 2 V_{rms} unbalanced; Output impedance: 200 ohms balanced, 100 ohms unbalanced.
3		(2) 2-pin 5mm detachable terminal blocks; Left and right speaker-level audio outputs; Output power: 10 watts per channel; Minimum impedance: 8 ohms.
4	18VDC 3.0A 16VDC 3.0 A	(1) 3-pin DC power jack (power supply included).

(Continued on following page)

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#	CONNECTORS ¹ , CONTROLS & INDICATORS	DESCRIPTION		
5	PWR LED	(Green) indicates power connected to 18 VDC connector.		
6	RESET BUTTON	SW-R - (1) Recessed pushbutton for software reset.		
7	RELAY OUTPUT (1 – 2), INPUT (1 – 3), IR, G 1 2 1 2 3 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. 		
8	INPUT LED	(Red) indicates activity on any input port.		
9	IR LED	(Red) indicates activity on IR port.		
10		 (1) 3.5mm TRS mini-phone jack; Balanced mono line level audio input; Maximum input level: 2 V_{rms} balanced, 1 V_{rms} unbalanced; Input impedance: 18k ohms balanced/unbalanced. 		
		Tip Ring Sleeve Tip: Positive Ring: Negative Sleeve: Ground		
11	COMPUTER PIN 1 COMPUTER	(1) 6-pin RJ-11 female; computer console port. Use with STCP-502PC serial cable (not included).		
		PIN # DESCRIPTION 1 CTS 2 GND 3 RXD 4 TXD 5 RTS 6 N/C (Not connected) In the event that modular cables or an RJ-11 to DB9F adapter is not available, the following diagram provides information so that the cable can be fabricated on site. (Alternatively, Crestron cable number STCP-502PC is sold separately.) TO RS-232 PORT CTS 1 CTS		

Connectors, Controls & Indicators (Continued)

(Continued on following page)

Connectors, Controls & Indicators (Continued)

#	CONNECTORS ¹ , CONTROLS & INDICATORS	DESCRIPTION					
12	LAN ³ GREEN YELLOW LED LED	10Base Green	ire RJ-45 with T/100BaseTX LED indicates LED indicates	Ethernet link status	port; s;		
		PIN	SIGNAL	PIN	SIGNAL	7	
	PIN 8 PIN 1	1	TX +	5	N/C	-	
		2	TX -	6	RC -		
		3	RC+	7	N/C		
		4	N/C	8	N/C	J	
13	COM COM Pin 1		e male, bidirect re and softwar				ud;
		PIN	DIRECT	ION	[DESCRIPTION	
	Pin 9 [°]	1	To IM-RXV	/1/3-M	(DCD) Da	ta Carrier Detec	t
		2	To IM-RXV	/1/3-M	(RXD) Re	ceive Data	
		3	From IM-RX	(V1/3-M	(TXD) Tra	ansmit Data	
		4	From IM-RX	(V1/3-M	(DTR) Da	ta Terminal Rea	dy
		5	Comm	on	(GND) Gr	ound	
		6	From IM-RX	(V1/3-M	(DSR) Da	ta Set Ready	
		7 From IM-RXV1/3-M (RTS) Request To Send					
		8	To IM-RXV	/1/3-M	(CTS) Cle	ear To Send	
		9	To IM-RXV	/1/3-M	(RI) Ring	Indicator	
14		(1) RCA female, composite video output; Output impedance: 75 ohms; Output level: 1 V _{p-p} nominal.					
15		$ \begin{array}{l} (1) \mbox{ DB15HD, female, RGB output; displays RGB signal from RGB source connected to IM transmitter; Formats: RGBHV, RGBS, RG_{S}B; Output impedance: 75 ohms; Sync impedance: 100 ohms; Maximum output level: 1 V_{p\text{-}p} maximum; Sync level: 5 V_{p\text{-}p}. \end{array} $					
		PIN	FUNCTION	N PI	N FU	INCTION	
		1	Red Video	9			
		2	Green Video	10			
		3	Blue Video	11			
		4	Reserved	12		Sense 1	
		5	Ground	13		tal Sync	
		6	Red Ground Green Ground	14 1 15		Sync Sense 2	
		8	Blue Ground				
		Ö	Blue Ground				

(Continued on following page)

Connectors, Controls & Indicators (Continued)

#	CONNECTORS ¹ , CONTROLS & INDICATORS	DESCRIPTION
16	GROUND ⁴ / / /	(1) 6-32 screw, chassis ground lug.

1. Interface connectors for SPEAKER, AUDIO, RELAY OUTPUT/INPUT/IR/G, and MIC ports are provided with the unit.

2. For iMedia use CreCAT-IM cable or quality CAT5e/CAT6 cable having a maximum delay skew of 15ns per 100m.

3. To determine which is pin 1 on the cable, hold the cable so that the end of the eight pin modular jack is facing away from you, with the clip down and copper side up. Pin 1 is on the far left.

4. Ensure that the unit is properly grounded.

Industry Compliance

As of the date of manufacture, the IM-RXV1-M and IM-RXV3-M have been tested and found to comply with specifications for CE marking and standards per EMC and Radiocommunications Compliance Labelling.



NOTE: These devices comply with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) these devices may not cause harmful interference and (2) these devices must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Setup

Network Wiring

When wiring an iMedia system, consider the following:

- Use Crestron Certified Wire.
- Use Crestron power supplies for Crestron equipment.
- Provide sufficient power to the system.

CAUTION: Insufficient power can lead to unpredictable results or damage to the equipment.

IM Wiring

Using a proprietary signal routing solution, RGBHV, composite video, audio, power and control signals are all transported using a single cable solution called iMedia.

The iMedia transport system port is capable of managing computer RGB, composite video, and audio signals simultaneously through one CresCAT-IM cable, simplifying installations.

Routing CresCAT-IM cable (low-skew CAT5e) is less expensive and a much simpler solution for wiring iMedia systems than routing multi-colored, multi-conductor coax cable. All Crestron products using the iMedia transport system are capable of sending and receiving iMedia signals via CresCAT-IM cable. Installation of any iMedia device is as simple as installing one iMedia cable from output to input. Installations are affordable and fast.

Pin Assignments

The pin assignment is based on the EIA/TIA 568B RJ-45 Jack standard.

Power is supplied to the IM transmitters via the audio circuit.

To determine which pin is number 1, hold the cable so that the end of the eight pin modular jack is facing you, with clip down and copper side up. When looking down at the copper connections, pin 1 is on the far right.

RJ-45 Male Connector	RJ-45 Pin Number	Wire Colors	iMedia Assignment RGB, Composite and Audio
	1	White/Orange	- RGB Red
	2	Orange	+ RGB Red
	3	White/Green	- RGB Green
Pin 1	4	Blue	+ Audio/Power
	5	White/Blue	- Audio/Power
	6	Green	+ RGB Green
	7	White/Brown	- RGB Blue / Composite
	8	Brown	+ RGB Blue / Composite

iMedia Pin Assignment

NOTE: Power is supplied to pins 4 and 5 from the IM receivers.

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Signal Selection

The RGB signal connected to the IM transmitter is delivered to the display device (e.g., projector) via the RGBHV output of an IM receiver. The composite video signal connected to the IM transmitter is delivered to the display device (e.g., projector) via the composite video output of an IM receiver. Each IM transmitter possesses a **SELECT** button (IM transmitters with video have two **SELECT** buttons) that activates an input. The receiver automatically routes the last activated input to the RGB or composite video output and deactivates any prior selection. In addition, the display's power and input selection commands can be controlled via the **IR** or **COM** port.

Video Resolution and Cable Length

The receiver can accomplish frequency compensation on each input to achieve correct operation. This compensation scheme is effective for CresCAT-IM cables as long as the maximum skew of 15 ns per 100 meters is not exceeded.

NOTE: For proper operation and performance of every iMedia system, always use CresCAT-IM cable.

RESOLUTION	REFRESH RATE (HZ)	PIXEL RATE (MHZ)	PIXEL TIME (NS)	MAX LENGTH (FEET)
VGA	60	25.18	39.7	218.5
(640 X 480)	72	31.50	31.7	174.6
	85	36.00	27.8	152.8
SVGA	56	36.00	27.8	152.8
(800 X 600)	72	50.00	20.0	110.0
	85	56.25	17.8	97.8
XGA	60	65.00	15.4	84.6
(1024 X 768)	70	75.00	13.3	73.3
	85	94.50	10.6	58.2
SXGA	60	108.00	9.3	50.9
(1280 X 1024)	75	135.00	7.4	40.7
	85	157.50	6.3	34.9
UXGA	60	162.00	6.2	34.0
(1600 X 1200)	70	189.00	5.3	29.1
	85	229.50	4.4	24.0
COMPOSITE VIDEO				218.5

Maximum Resolution and Cable Length

For more information on CresCAT and other wire products, visit the Crestron website (<u>http://www.crestron.com/downloads/pdf/product_line_overviews/overview-wire_and_cable.pdf</u>).

Identity Code

The IP ID is set within the IM-RXV1-M or IM-RXV3-M's table using Crestron ToolboxTM. For information on setting an IP table, refer to the Crestron Toolbox help file. The IP IDs of multiple IM-RXV1-M or IM-RXV3-M devices in the same system must be unique.

	Installation
Ventilation	The IM-RXV1-M and IM-RXV3-M should be used in a well-ventilated area.
	To prevent overheating, do not operate this product in an area that exceeds the environmental temperature range listed in the table of specifications. Consider using forced air ventilation and/or incrementing the spacing between units to reduce overheating. Consideration must be given if installed in a closed or multi-unit rack assembly since the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Contact with thermal insulating materials should be avoided on all sides of the unit.
Mounting	The IM-RXV1-M and IM-RXV3-M can be mounted to any surface using the included mounting brackets. These brackets must be installed prior to mounting. Complete the following procedure to attach the brackets to the unit. The only tool required is a #1 Phillips screwdriver.
	To install the ears:
	 There are screws that secure each side of the IM-RXV1-M and IM-RXV3-M top cover. Using a #1 Phillips screwdriver, remove the screws at each corner of the top cover. Refer to the diagram following step 3 for a detailed view.
	2. Position a bracket so that its mounting hole aligns with the hole vacated by the screws in step 1.
	3. Secure the bracket to the unit with a screw from step 1, as shown in the following diagram.
	Ear Attachment

4. Repeat procedure (steps 1 through 3) to attach the remaining brackets.

NOTE: The MK-IM-RX pole mount kit is also available for mounting the IM-RXV1-M or IM-RXV3-M to a pipe. Details can be found in the latest version of the MK-IM-RX Installation Guide (Doc. 6451) which can be obtained from the Crestron website (<u>http://www.crestron.com/manuals</u>).

Hardware Hookup

Make the necessary connections as called out in the illustration that follows this paragraph. Apply power after all connections have been made.

When making connections to the IM-RXV1-M and IM-RXV3-M, consider the following:

- Use Crestron power supplies for Crestron equipment.
- The included cable cannot be extended.

Hardware Connections (Front, IM-RXV3-M shown)



NOTE: For optimum performance, Crestron strongly recommends using CresCAT-IM cable, available from Crestron. Other high-quality/low skew CAT5e/CAT6 wiring may also be used with varying performance.

Hardware Connections (Rear)







NOTE: Ensure that the unit is properly grounded.

System Configuration

Have a question or comment about Crestron software?

Answers to frequently asked questions (FAQs) can be viewed in the Online Help section of the Crestron website. To post a question or view questions you have submitted to Crestron's True Blue Support, log in at <u>http://support.crestron.com</u>. First-time users will need to establish a user account.

Earliest Version Software Requirements for the PC

NOTE: Crestron recommends that you use the latest software to take advantage of the most recently released features. The latest software is available from the Crestron website.

Crestron has developed an assortment of Windows[®]-based software tools to develop a controlled system. The following are the minimum recommended software versions for the PC:

Software

TASK	REQUIRED SOFTWARE VERSION
Upload program and firmware.	Crestron Toolbox 1.06.10 or later.
Simplified configuration with wizards for iMedia systems (optional but recommended).	iMedia Wizard; part of Crestron SystemBuilder™ version 3.0 or later (requires SIMPL Windows, VisionTools Pro-e, Crestron Database and Crestron Engraver) with Systembuilder Templates version 3.0 or later, Library update 485 or later, and Crestron Database version 18.8.2 or later. Refer to software release notes or Crestron website for other required Crestron software packages.
Manage IM-RXV1-M or IM-RXV3-M systems within a facility (optional).	RoomView [®] Server Edition.
IR learning software (optional).	DEAL for Windows version 3.02 or later.

iMedia Wizard Configuration

The iMedia Wizard is included with Crestron SystemBuilder and provides a quick method of configuring a custom iMedia system without prior programming knowledge. Once a system is configured, a test pattern can be sent to the projector to adjust the peaking level of each input. For additional details, download Crestron SystemBuilder from the Crestron website and examine the extensive help file.

NOTE: All configuration is complete within the iMedia wizard only. This system cannot be configured in SystemBuilder or SIMPLTM Windows[®].

Uploading and Upgrading

Crestron recommends using the latest programming software and that each device contains the latest firmware to take advantage of the most recently released features. However, before attempting to upload or upgrade it is necessary to establish communication. Once communication has been established, files (for example, programs or firmware) can be transferred to the device). Finally, program checks can be performed (such as creating an IP table) to ensure proper functioning.

Establishing Communication

Use Crestron Toolbox for communicating with the IM-RXV1-M and IM-RXV3-M; refer to the Crestron Toolbox help file for details. There are two methods of communication.

Direct Serial Communication

NOTE: Required for initial setup of Ethernet parameters.

Direct Serial Communication



- The **COMPUTER** port on the IM-RXV1-M and IM-RXV3-M connects to the serial port on the PC via a serial cable (Crestron STCP-502PC or equivalent).
- Use the Address Book in Crestron Toolbox to create an entry using the expected serial communication protocol (RS-232, auto-detect baud rate, no parity, 8 data bits, 1 stop bit, XON/XOFF disabled, RTS/CTS enabled).
- Display the IM-RXV1-M or IM-RXV3-M's "System Info" window (click

the **b** icon); communications are confirmed when the device information is displayed.

TCP/IP Communication

Ethernet Communication



- Establish serial communication between IM-RXV1-M or IM-RXV3-M and PC.
- Enter the IP address, IP mask and default router of the IM-RXV1-M or IM-RXV3-M via the Crestron Toolbox (Functions | Ethernet Addressing); otherwise enable DHCP.
- Confirm Ethernet connections between IM-RXV1-M or IM-RXV3-M and PC. If connecting through a hub or router, use CAT5 straight through cables with 8-pin RJ-45 connectors. Alternatively, use a CAT5 crossover cable to connect the two LAN ports directly without using a hub or router.

- Use the Address Book in the Crestron Toolbox to create an entry for the IM-RXV1-M or IM-RXV3-M with the IM-RXV1-M or IM-RXV3-M's TCP/IP communication parameters.
- Display the "System Info" window (click the **I** icon) and select the IM-RXV1-M or IM-RXV3-M entry.

Firmware

Firmware files may be distributed from programmers to installers or from Crestron to dealers. Firmware upgrades are available from the Crestron website as new features are developed after product releases. For details on upgrading firmware refer to the Crestron Toolbox help file.

Check the Crestron website to find the latest firmware. (New users may be required to register to obtain access to certain areas of the site, including the FTP site.)

Upgrade IM-RXV1-M or IM-RXV3-M firmware via Crestron Toolbox.

- Establish communication with the IM-RXV1-M or IM-RXV3-M and display the "System Info" window.
- Select **Functions** | **Firmware...** to upgrade the IM-RXV1-M or IM-RXV3-M firmware.

Program Checks

For Ethernet connections, display the "System Info" window (click the **Functions** icon) and select the **Functions** menu to display actions that can be performed on the IM-RXV1-M or IM-RXV3-M.

Problem Solving

Troubleshooting

The following table provides corrective action for possible trouble situations. If further assistance is required, please contact a Crestron customer service representative.

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
PWR LED does not illuminate.	Not receiving power.	Verify that the power supply cable and power supply connection to the AC are properly attached.
	Incorrect power supply.	Only use a Crestron power supply.
No video output displayed.	Incorrect cable connections.	Verify display device connections.
		Verify iMedia output cable connection is secure.
	Wrong input selected on transmitter.	Select correct input on transmitter.
Video from source is garbled or no	Incorrect cable connection.	Verify display device connection.
output.		Verify maximum iMedia cable length.
	Peak adjustment incorrect.	Readjust peak control.
Not controlling the display device.	Incorrect wiring.	Check wiring and connectors between the IM-RXV1-M or IM-RXV3-M and the display device.
Loss of functionality due to electrostatic discharge.	Improper grounding.	Check that all ground connections have been made properly.

IM-RXV1-M and IM-RXV3-M Troubleshooting

Reference Documents

The latest version of all documents mentioned within the guide can be obtained from the Crestron website (<u>http://www.crestron.com/manuals</u>). This link will provide a list of product manuals arranged in alphabetical order by model number.

List of Related Reference Documents



Further Inquiries

If you cannot locate specific information or have questions after reviewing this guide, please take advantage of Crestron's award winning customer service team by calling the Crestron corporate headquarters at 1-888-CRESTRON [1-888-273-7876]. For assistance in your local time zone, refer to the Crestron website (http://www.crestron.com/offices) for a listing of Crestron worldwide offices.

You can also log onto the online help section of the Crestron website (<u>http://www.crestron.com/onlinehelp</u>) to ask questions about Crestron products. First-time users will need to establish a user account to fully benefit from all available features.

Future Updates

As Crestron improves functions, adds new features and extends the capabilities of the IM-RXV1-M and IM-RXV3-M, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron website periodically for manual update availability and its relevance. Updates are identified as an "Addendum" in the Download column.

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iMedia Receiver with Video & Mic Input Crestron IM-RXV1-M & IM-RXV3-M

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