

Crestron **QM-IEM**
Image Enhancer Module

Installation Guide



This document was prepared and written by the Technical Documentation department at:



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Image Enhancer Module: QM-IEM

Introduction

Features and Functions

The QM-IEM is a module added to the output of the QM-RMCRX to improve performance when connected to digital light processing (DLP™) micro-electromechanical display. DLP technology uses fast switching optical semiconductors to digitally manipulate light. Some of these DLP devices are extremely sensitive to noise. The QM-IEM acts as an anti-alias device, limiting the out-of-band noise by using a sharp bandwidth cutoff.

Functional Summary

- Connects directly to either the RGBHV output port of the QM-RMCRX or to the input side of the DLP display device
- Eliminates noise
- Easy one-piece mounting (additional hardware not required)

The QM-IEM has been successfully tested with the following DLP devices.

Make	Model
Christie	Christie DS30
Digital Projection	Digital Projection iVision HD Digital Projection iVision SX
HP	HP 8000
NEC	NEC LT260

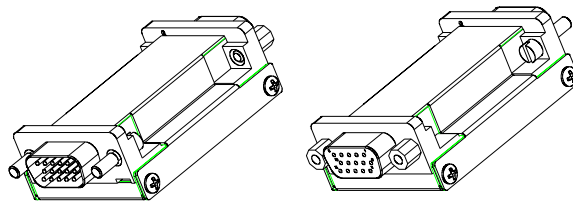
Specifications

SPECIFICATION	DETAILS
Wiring	One D15HD male connector One D15HD female connector
Environmental Temperature	41° to 104°F (5° to 40°C)
Environmental Humidity	10% to 90% RH (non-condensing)
Dimensions	H: 0.67 in (1.70 cm) W: 1.45 in (3.68 cm) D: 2.39 in (6.07 cm)

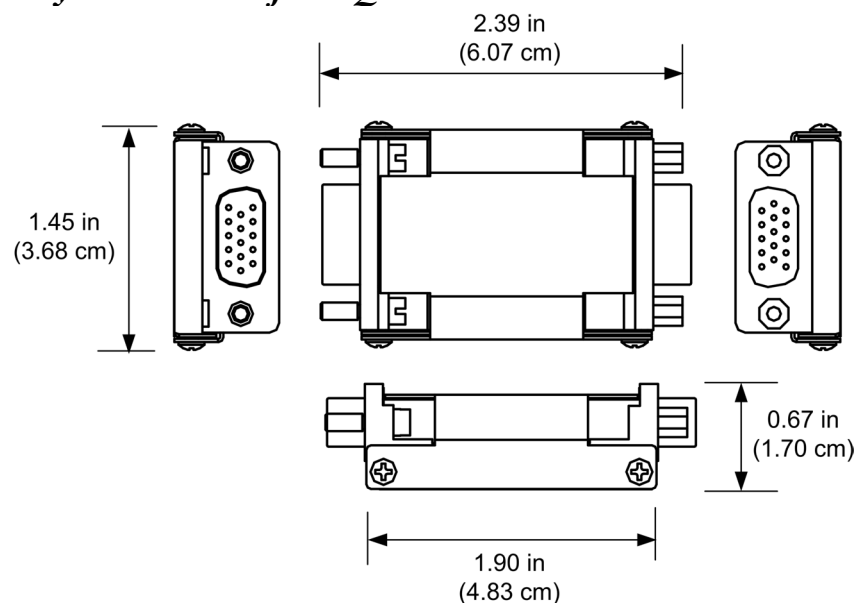
Physical Description

Refer to the following illustrations.

QM-IEM Male and Female Ends



Physical Views of the QM-IEM



Industry Compliance

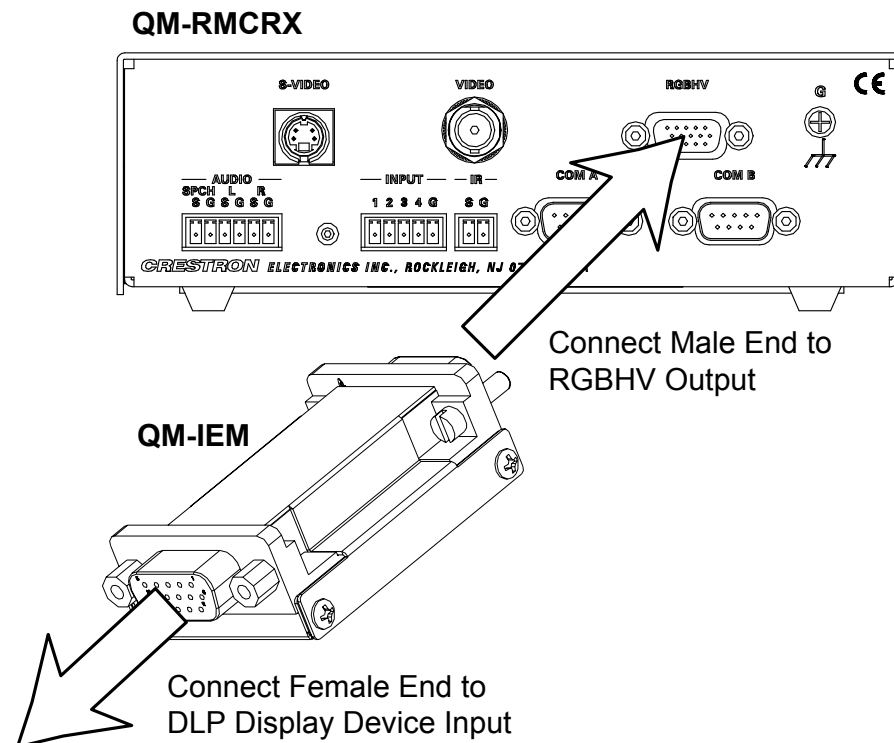
As of the date of manufacture, the QM-IEM has been tested and found to comply with specifications for CE marking and standards per EMC and Radiocommunications Compliance Labelling (N11785).



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

Installation

The QM-IEM may be installed at the output of the QM-RMCRX or at the input of the DLP display device.



Use a small flat-blade screwdriver to secure the QM-IEM to the QM-RMCRX RGBHV output port and connect the female end to the DLP Display device.

Problem Solving

Troubleshooting

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
No signal	Improper connection	Check connection to display device and to the QM-RMCRX

Further Inquiries

If after reviewing this Installation Guide, you cannot locate specific information or have questions, please take advantage of the Crestron award winning customer service team by calling:

- In the US and Canada, call Crestron’s corporate headquarters at 1-888-CRESTRON [1-888-273-7876].
- In Europe, call Crestron International at +32-15-50-99-50.
- In Asia, call Crestron Asia at +852-2341-2016.
- In Latin America, call Crestron Latin America at +5255-5093-2160.
- In Australia and New Zealand, call Creston Pacific at +613-9480-2999.

Future Updates

As Crestron improves functions, adds new features, and extends the capabilities of this product, 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 (www.crestron.com) periodically for manual update availability and its relevance. Updates are available from the Download | Product Manuals section and are identified as an “Addendum” in the Download column.

Return and Warranty Policies

Merchandise Returns / Repair Service

1. No merchandise may be returned for credit, exchange, or service without prior authorization from CRESTRON. To obtain warranty service for CRESTRON products, contact the factory and request an RMA (Return Merchandise Authorization) number. Enclose a note specifying the nature of the problem, name and phone number of contact person, RMA number, and return address.
2. Products may be returned for credit, exchange, or service with a CRESTRON Return Merchandise Authorization (RMA) number. Authorized returns must be shipped freight prepaid to CRESTRON, 6 Volvo Drive, Rockleigh, N.J., or its authorized subsidiaries, with RMA number clearly marked on the outside of all cartons. Shipments arriving freight collect or without an RMA number shall be subject to refusal. CRESTRON reserves the right in its sole and absolute discretion to charge a 15% restocking fee, plus shipping costs, on any products returned with an RMA.
3. Return freight charges following repair of items under warranty shall be paid by CRESTRON, shipping by standard ground carrier. In the event repairs are found to be non-warranty, return freight costs shall be paid by the purchaser.

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CRESTRON ELECTRONICS, Inc. warrants its products to be free from manufacturing defects in materials and workmanship under normal use for a period of three (3) years from the date of purchase from CRESTRON, with the following exceptions: disk drives and any other moving or rotating mechanical parts, pan/tilt heads and power supplies are covered for a period of one (1) year; touchscreen display and overlay components are covered for 90 days; batteries and incandescent lamps are not covered.

This warranty extends to products purchased directly from CRESTRON or an authorized CRESTRON dealer. Purchasers should inquire of the dealer regarding the nature and extent of the dealer's warranty, if any.

CRESTRON shall not be liable to honor the terms of this warranty if the product has been used in any application other than that for which it was intended, or if it has been subjected to misuse, accidental damage, modification, or improper installation procedures. Furthermore, this warranty does not cover any product that has had the serial number altered, defaced, or removed.

This warranty shall be the sole and exclusive remedy to the original purchaser. In no event shall CRESTRON be liable for incidental or consequential damages of any kind (property or economic damages inclusive) arising from the sale or use of this equipment. CRESTRON is not liable for any claim made by a third party or made by the purchaser for a third party.

CRESTRON shall, at its option, repair or replace any product found defective, without charge for parts or labor. Repaired or replaced equipment and parts supplied under this warranty shall be covered only by the unexpired portion of the warranty.

Except as expressly set forth in this warranty, CRESTRON makes no other warranties, expressed or implied, nor authorizes any other party to offer any warranty, including any implied warranties of merchantability or fitness for a particular purpose. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty. This warranty statement supercedes all previous warranties.

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