

# Crestron MPI-WP Series

## Media Presentation Wall Plates - International Versions

### Installation Guide



#### 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 Crestron at 1-888-CRESTRON [1-888-273-7876]. For assistance in your region, please refer to the Crestron Web site ([www.crestron.com](http://www.crestron.com)) for a listing of Crestron worldwide offices.

You can also log onto the online help section of the Crestron Web site ([www.crestron.com/onlinehelp](http://www.crestron.com/onlinehelp)) 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 MPI-WP units, 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 Web site periodically for manual update availability and its relevance. Updates are identified as an "Addendum" in the Download column.

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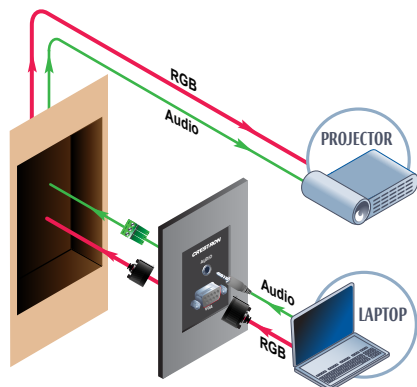
**Installation Guide - DOC. 7168A**  
**(2030796)**  
**07.11**  
 Specifications subject to  
 change without notice.

#### DESCRIPTION

Media Presentation Wall Plates complete the total Crestron® package, ensuring end-to-end Crestron quality for every installation. A range of wall plates is offered to support all types of analog and digital video, audio, and control signals.

The MPI-WP international version wall plates are designed to fit both European (DIN 49073) and UK (BS 4662) electrical boxes (not included), and are finished with decorative face plates (not included). Requires an FP-INTENSE or FP-PURE face plate, available in 18 colors and finishes up to 5-gang in size.

#### Typical Application (MPI-WP130 Shown)



#### Media Presentation Wall Plate Models

MODEL	DESCRIPTION
MPI-WP100	Three gold-plated RCA connectors, color-coded and labeled for composite video and stereo audio. Bulkhead type feed-thru connectors are used, providing female RCA connections at the rear <sup>1,2</sup> .
MPI-WP120	Five gold-plated RCA connectors, color-coded and labeled for component video and stereo audio. Bulkhead type feed-thru connectors are used, providing female RCA connections at the rear <sup>1,2</sup> .
MPI-WP130	One female DB15HD connector (i.e., HD-15, DE-15) and one 3.5 mm mini-TRS connector, labeled for computer VGA and stereo audio. A bulkhead type feed-thru connector is used, providing a female DB15HD connection at the rear. Audio wiring is connected via a 3-pin terminal block <sup>1,2</sup> .
MPI-WP131	One female DB15HD connector (i.e., HD-15, DE-15) and one 3.5 mm mini-TRS connector, labeled for computer VGA and stereo audio. A breakout cable assembly at the rear provides five BNC connections. Audio wiring is connected via a 3-pin terminal block <sup>1,2</sup> .
MPI-WP150	One Type A HDMI® connector and one 3.5 mm mini-TRS connector, labeled for HDMI and stereo audio. A bulkhead type feed-thru connector is used, providing a female HDMI connection at the rear. Audio wiring is connected via a 3-pin terminal block <sup>1,2</sup> .
MPI-WP160	One DisplayPort connector and one 3.5 mm mini-TRS connector, labeled for DisplayPort and stereo audio. A bulkhead type feed-thru connector is used, providing a female DisplayPort connection at the rear. Audio wiring is connected via a 3-pin terminal block <sup>2,3</sup> .
MPI-WP181-C	One female 8-pin RJ-45 shielded connector labeled for DigitalMedia 8G+™. Punch-down terminals at the rear facilitate installation using DM-CBL-8G DigitalMedia 8G™ Cable or CAT5e <sup>2,4</sup> .
MPI-WP182	One female 8-pin RJ-45 connector labeled for QuickMedia®. A bulkhead type feed-thru connector is used, providing a female RJ-45 and terminal block connections at the rear <sup>2,4</sup> .
MPI-WP183	One female 8-pin RJ-45 connector labeled for Ethernet. A bulkhead type feed-thru connector is used, providing a female RJ-45 connection at the rear <sup>2,4</sup> .
MPI-WP187-S	A single female SC type optical fiber connector, labeled for DigitalMedia 8G™ fiber. A bulkhead type feed-thru connector is used, providing female SC connection at the rear <sup>1,2</sup> .
MPI-WP190	One 4-pin 3.5mm detachable terminal block, labeled for Cresnet® control. A paralleled terminal block connection is provided at the rear <sup>2</sup> .

1. Requires 68 mm minimum mounting depth.
2. Some cables and connectors may necessitate additional mounting depth.
3. Requires 85 mm minimum mounting depth.
4. Requires 47 mm minimum mounting depth.

#### INSTALLATION

Installation of the Media Presentation Wall Plates consists of the following:

1. Select an appropriate wall plate location (wall, furniture, rack panel).
2. Using the supplied template, cut a hole in the mounting surface.
3. Install required electrical box (not provided).
4. Run and terminate cables. Refer to the wiring information on this page as necessary.
5. Test cables prior to screwing down the wall plate.
6. Screw the wall plate to the electrical box.
7. Attach face plate to the mounting surface.

#### NETWORK WIRING GUIDELINES

**Cresnet®.** When wiring the Cresnet network, 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. Please use the Crestron Power Calculator to help calculate how much power is needed for the system. ([www.crestron.com/calculators](http://www.crestron.com/calculators)).

**DM® Network.** When wiring the DM network, consider the following:

**NOTE:** DMNet® wiring and Cresnet wiring are not compatible.

For DigitalMediaCAT wiring, use DM-CBL DigitalMedia™ cable, CresCAT-D, or quality CAT5e/CAT6 cable. Do NOT use low-skew cable. For complete wiring guidelines, refer to the latest revision of the Crestron DigitalMedia Design Guide (Doc. 4789), which is available from the Crestron Web site ([www.crestron.com/dmresources](http://www.crestron.com/dmresources)).

**QuickMedia®.** When wiring the QuickMedia network, consider the following:

**NOTE:** Do not untwist the two wires in a single pair for more than 1/3-1/2" (8-12 mm) when making a connection. The twists are critical to canceling out interference between the wires.

The aggregate cable length of a signal path originating at a QM transmitter and terminating at a QM receiver must not exceed 450 feet (137 meters).

## PREPARING AND CONNECTING WIRES

Strip the ends of the wires approximately 1/2" (13 mm). Use care to avoid nicking the conductors. Twist together the ends of the wires that share a connection and tin the twisted connection. Apply solder only to the ends of the twisted wires. Avoid tinning too far up the wires or the end becomes brittle.

**NOTE:** It is not necessary to strip and tin wires for punch-down connection.

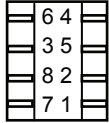
Refer to the following diagrams and instructions for specific wiring requirements.

### Cresnet Port Wiring

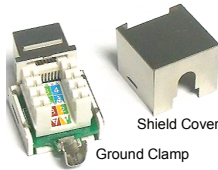


PIN #	SIGNAL	WIRE COLOR
24	+24V	Red
Y	Data	White
Z	Data	Blue
G	Ground	Black

### RJ-45 Punch Down Wiring



PIN #	WIRE COLOR (EIA 568B)	PIN #	WIRE COLOR (EIA 568B)
6	Green	4	Blue
3	White/Green	5	White/Blue
8	Brown	2	Orange
7	White/Brown	1	White/Orange



### DigitalMedia 8G™ Cable Termination

Terminate the DM-CBL-8G DigitalMedia cable to the supplied interface connectors as follows:

- Strip the outer jacket 1 1/2 inch (38 mm) from the end of the cable.
- Trim the foil shield to 1/2 inch (13mm), and fold it back so that it lies smoothly over the cable jacket.

**NOTE:** If the cable you are using has a wire braid, fold back the braid over the cable jacket and then fold back the foil shield over the braid.

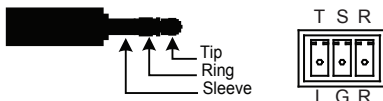
- Fold back the drain wire over the foil shield.
- Cut and remove the white inner jacket.

**NOTE:** If the cable you are using has a clear plastic wrap instead of a white inner jacket, cut and remove the plastic wrap.

**NOTE:** Do not allow the twisted pairs to untwist for more than 1/2 inch (13 mm).

- Fold the foil shield and drain wire (and wire braid, if any) back over the twisted pairs.
- Remove the shield cover from one of the supplied RJ-45 connectors. Place the cable so the area with the foil shield is positioned within the connector's ground clamp, and crimp the ground clamp to secure the cable in position.
- Starting with the terminals closest to the ground clamp, insert the twisted pairs and use a 110 tool to push them down. Refer to the above table for pin/color assignments.
- If the 110 tool does not do so, trim the ends flush with the sides of the terminals; crimp the ground clamp over the cable shield, and replace the connector shield cover.

### Mini-TRS Connections



### Ethernet Wiring



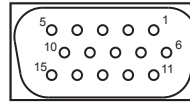
PIN #	WIRE COLOR	PIN #	WIRE COLOR
1	White/Orange	5	White/Blue
2	Orange	6	Green
3	White/Green	7	White/Brown
4	Blue	8	Brown

### QuickMedia Wiring



RJ-45 PIN NUMBER	WIRE COLORS (EIA 568B)	QM ASSIGNMENT: RGB
1	White/Orange	- RGB Red
2	Orange	+ RGB Red
3	White/Green	- RGB Green
4	Blue	+ Digital Audio
5	White/Blue	- Digital Audio
6	Green	+ RGB Green
7	White/Brown	- RGB Blue
8	Brown	+ RGB Blue

## VGA Wiring



PIN #	SIGNAL	PIN #	SIGNAL
1	Red Video	9	No Connection
2	Green Video	10	Ground
3	Blue Video	11	No Connection
4	Reserved	12	Monitor Sense
5	Ground	13	Horizontal Sync
6	Red Ground	14	Vertical Sync
7	Green Ground	15	Monitor Sense Clock
8	Blue Ground		

## Return and Warranty Policies

### Merchandise Returns / Repair Service

- No merchandise may be returned for credit, exchange or service without prior authorization from CRESTRON. To obtain warranty service for CRESTRON products, contact an authorized CRESTRON dealer. Only authorized CRESTRON dealers may 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.
- 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.
- 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.

### CRESTRON Limited Warranty

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 supersedes all previous warranties.

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