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Extron PVT Series PoleVault Twisted Pair Input Wallplates User Guide

Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

PVT Series Pole Vault Twisted Pair Input Wall plates User Guide

PVT Series
Pole Vault Twisted Pair
Input Wallplates
(Decora® and AAP models)
PVT CV D, PVT RGB D Plus, PVT RGB D
PVT CV AAP, and PVT RGB AAP

Contents

Precautions

Safety Instructions

⚠ This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.

⚡ This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Caution

Read Instructions • Read and understand all safety and operating instructions before using the equipment.

Retain Instructions • The safety instructions should be kept for future reference.

Follow Warnings • Follow all warnings and instructions marked on the equipment or in the user information.

Avoid Attachments • Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

Warning

Power sources • This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.

Power disconnection • To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).

Power cord protection • Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.

Servicing • Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.

Slots and openings • If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.

Lithium battery • There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

FCC Class A Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

The Class A limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and,

if not installed and used in accordance with the instruction guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

NOTE: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance with FCC emissions limits.

Conventions Used in this Guide

In this user guide, the following are used:

WARNING: A warning warns of things or actions that might cause injury, death, or other severe consequences.

CAUTION: A caution indicates a potential hazard to equipment or data.

NOTE: A note draws attention to important information.

Introduction

The section discusses basic information as an introduction to the PVT Series of twisted pair AV input Wallplates. This section covers the following:

- About the PVT Input Wallplates

About the PVT Input Wallplates

The Extron PVT Series Pole Vault® Twisted Pair Input Wallplates (Decora ® and Architectural Adapter Plates [AAP] models) described in this guide are a series of five cost effective twisted pair transmitters. These transmitters work exclusively with Pole Vault (PVS) switchers, which are twisted pair switchers with a built in power amplifier. PVT input Wallplates are part of a system for distribution of composite video and stereo audio, or high resolution video (RGB) and stereo audio, over:

- Extron Enhanced Skew-Free™ A/V UTP cable

- CAT 5e, or 6 shielded twisted pair (STP) cable

- unshielded twisted pair (UTP) cable

- foil shielded twisted pair (FTP) cable

All PVT Wallplates are remotely powered via the twisted pair cable when connected to the Pole Vault switcher.

NOTES: PVT series of input Wallplates are compatible ONLY with PVS (Pole Vault) switchers.

For PVS switcher installation and operation information, refer to the guide supplied with the device.

Transmission distance

The maximum distance is determined by the frequency and resolution of the signal that is input to the transmitter. However, all PVT models are capable of transmitting signals to the PVS switcher if it is located not more than 125 feet away. The optimum distance is between 50 and 75 feet.

The PVT Decora and AAP models can be mounted in UL standard wall boxes with Decor style face plates or in AAP openings in wall or device face plates. The model types are as follows:

PVT CV D, PVT CV AAP — Transmit composite video and stereo audio.

PVT RGB D, PVT RGB D Plus, PVT RGB AAP — Transmit computer (RGB) video and stereo audio.

See the "About the PVT …" sections in this chapter for details.

About the PVT CV D

The PVT CV D is a wall or furniture mountable wall plate that fits any single opening Decora style wall plate. It can transmit composite video and stereo audio to any Pole Vault switcher.

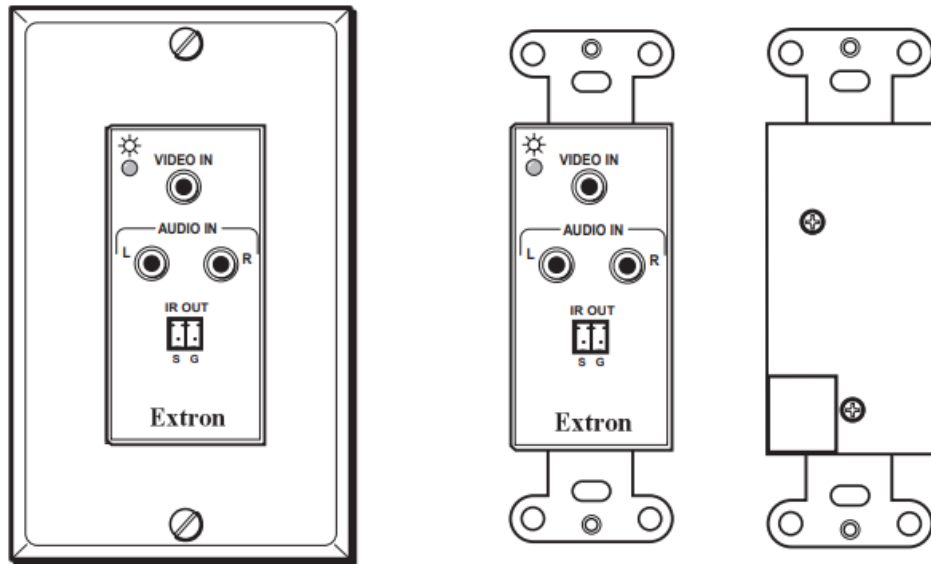In addition, a 2-pole IR pass-through provides control connection for IR devices.

Figure 1. PVT CV D face and rear panels

About the PVT CV AAP

The PVT CV AAP fits a standard double space AAP opening and can transmit composite video and stereo audio to the PVS switcher.
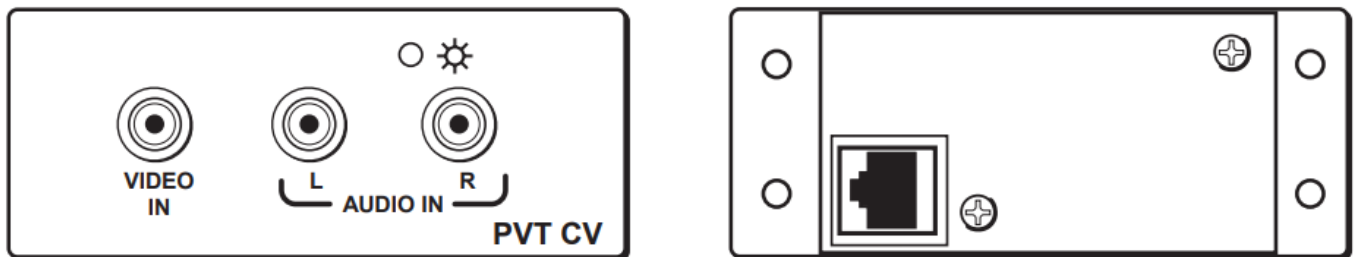

Figure 2. PVT CV AAP face and rear panels

About the PVT RGB D (EDID)

The PVT RGB D (EDID) is a wall or furniture mountable model that fits any single opening Decora style wall plate. It can transmit computer (RGB) video and stereo audio to the PVS switcher, and has an IR pass-though port to a provide control connection for DVD/VCR players, tuners, switchers, or other IR controllable devices.
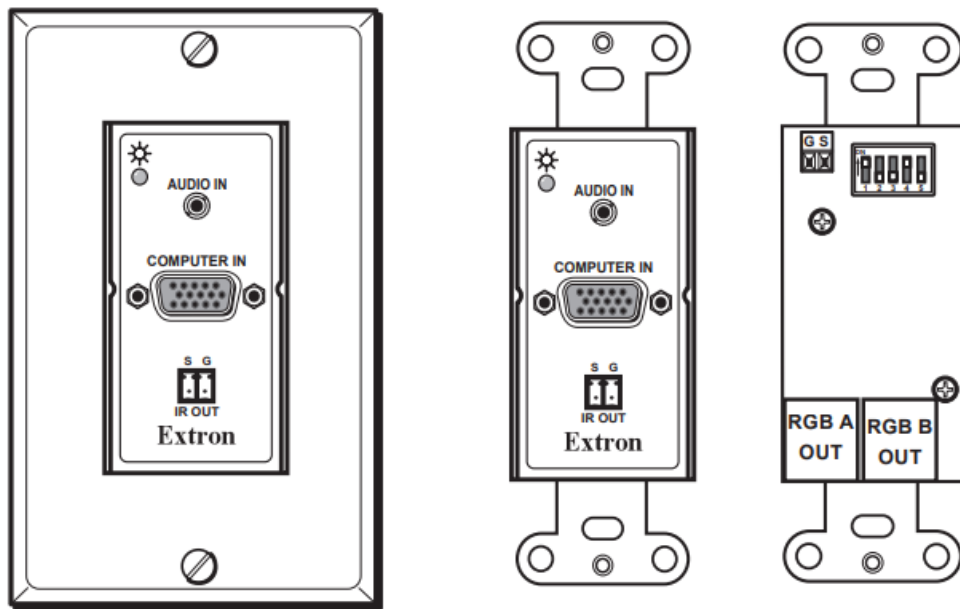
Figure 3. PVT RGB D (EDID) face and rear panels

NOTE: For all PVT RGB Decora and AAP models, two cable runs are required to carry the video and audio signals to the PVS switcher.

About the PVT RGB D Plus (EDID)

The PVT RGB D Plus (EDID) is a wall or furniture mountable model that fits any single opening Decora style wall plate. It can transmit computer (RGB) video and stereo audio to the switcher with a local monitor output and audio output. In addition, a 2-pole IR passthrough provides control connection for IR devices.
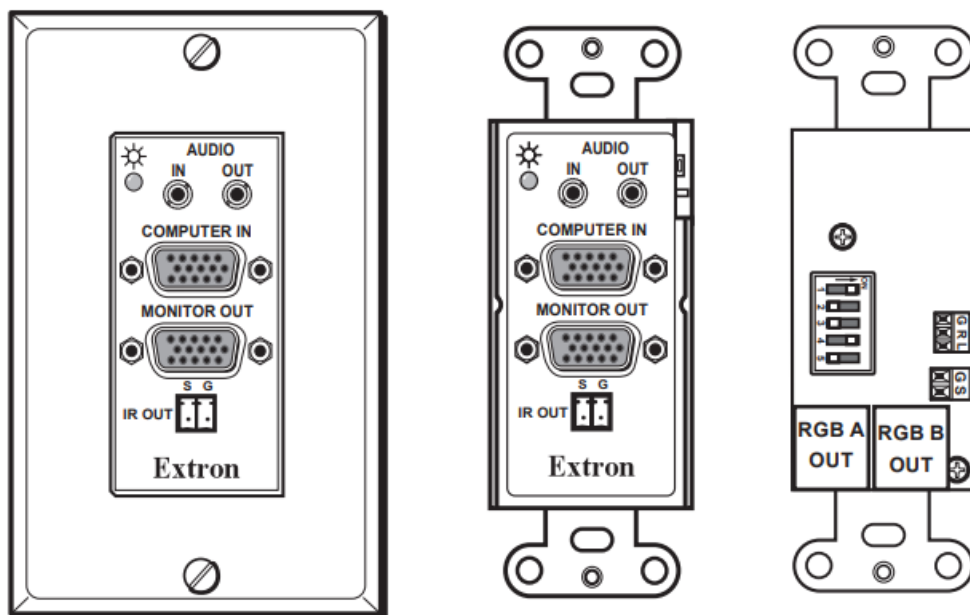

Figure 4. PVT RGB D Plus (EDID) face and rear panels

About the PVT RGB AAP (EDID)

The PVT RGB AAP fits a standard double height AAP opening in a wall plate or a device's front or secondary panel. It can transmit computer (RGB) video and stereo audio to the PVS switcher. In addition, a 2-pole IR pass-through provides control connection for IR devices.
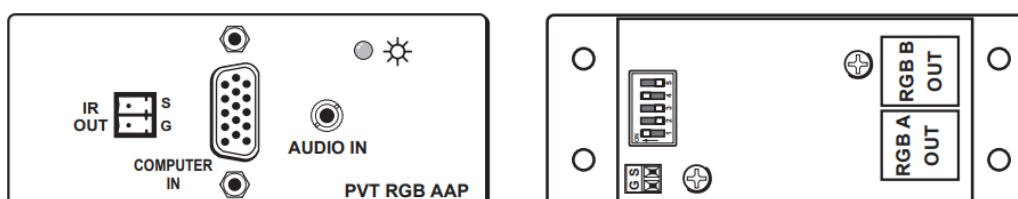

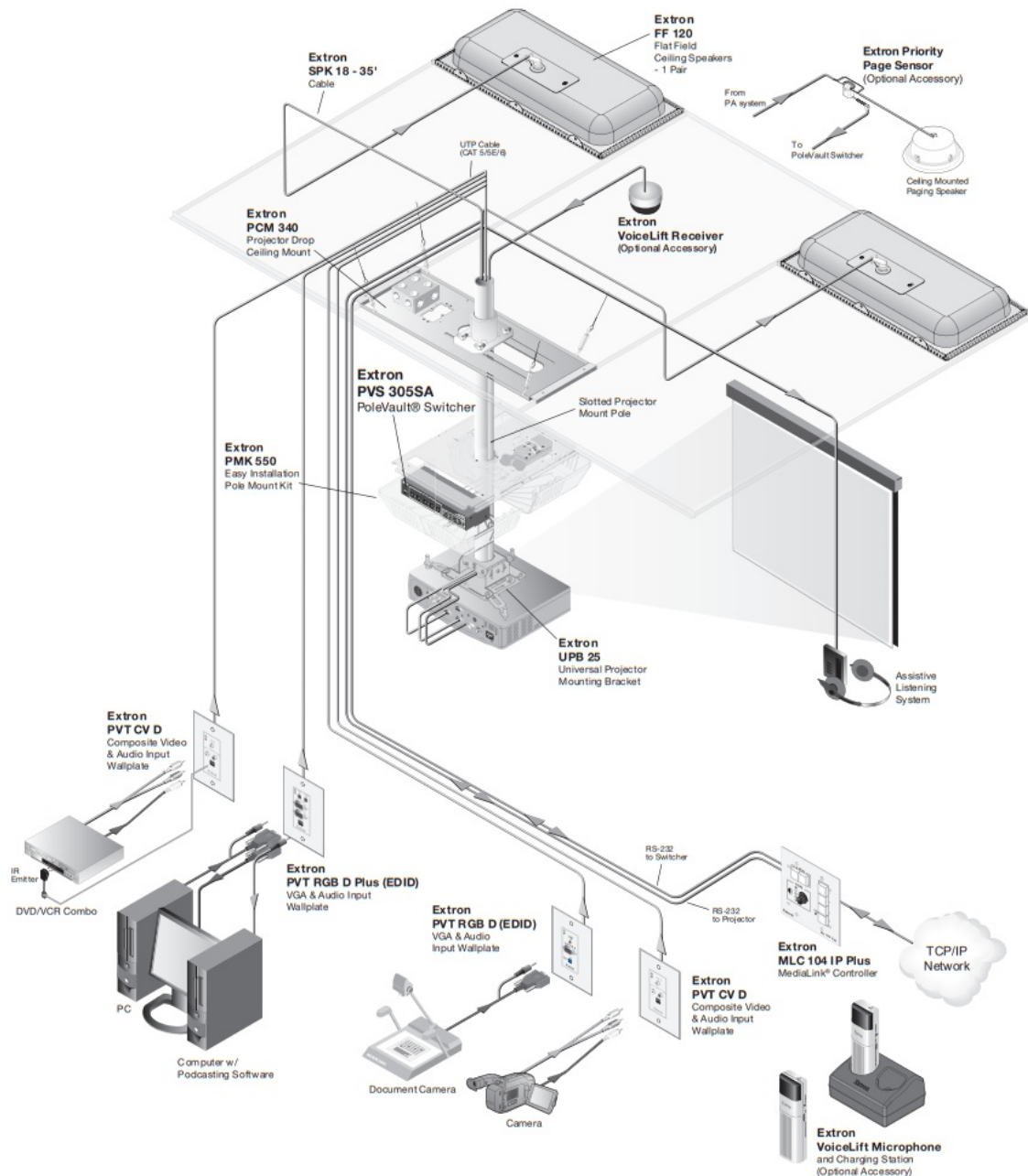Figure 5. PVT RGB AAP face and rear panels

Figure 6. Typical PVT series system application using PVT Decora and AAP transmitters with the PVS 305SA and other Extron device.

Installation

The section discusses the method of installation, cabling, and using EDID Minder of the PVT series Wallplates. This section covers the following:

UL Safety Requirements

The Underwriters Laboratories (UL) requirements listed below pertain to the safe installation and operation of these devices.

Important safety instructions

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with a dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturers instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments or accessories specified by the manufacturer.

12. Use only with the stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way. Examples of this could be if the power-supply cord or plug is damaged, or if liquid has been spilled onto, or objects have fallen into the apparatus. Also if the apparatus has been exposed to rain or moisture, or does not operate normally, or has been dropped.

Installing the PVT CV and PVT RGB Decora models
The PVT CV and PVT RGB Decora models can be installed into a wall using either the supplied mud ring or a UL approved one-gang electrical wall box, and finished with a Decora wall plate cover (supplied).
The installation must conform to national and local electrical codes and to the wall plate size requirements.
The following Underwriters Laboratories (UL) requirements pertain to the installation of the PVT input Wallplates into a wall or furniture.

1. These units are not to be connected to a centralized DC power source or used beyond their rated voltage range.

2. These units must be installed in UL listed junction boxes.

3. These units must be installed with conduit in accordance with National Electrical and Building Codes

To Install into a Mud-ring

1. Using the mud ring as a guide, mark the edges and cut out the material within the marked area.

2. Insert the mud ring into the opening, rotate the arms, and secure with the supplied screws.

3. Run the CAT 5 cables from the Pole Vault switcher location, going behind the wall and to the PVT location, then thread the cables through the mud ring.
   NOTE: Two cables (A and B) are needed for RGB signals. One cable is used with CV models.
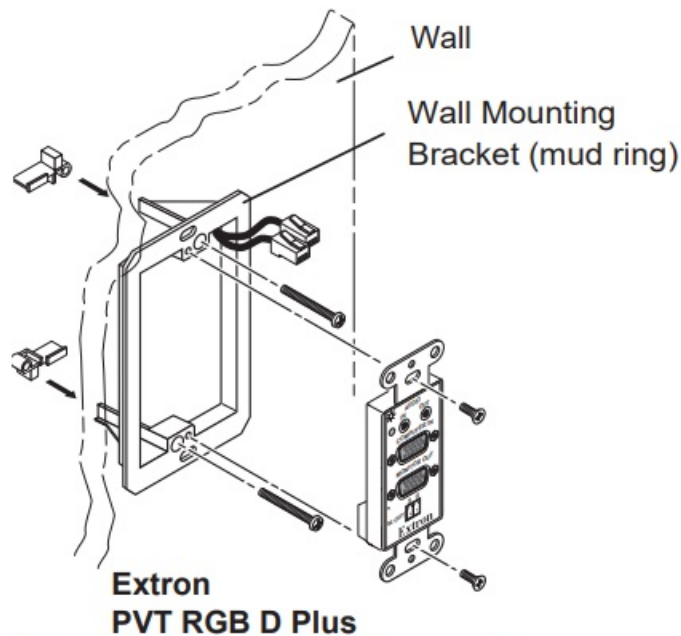
Figure 7. Installing the mud ring

4. Connect the switcher cables to the rear of the PVT wall plate. See "Rear Panel Features", page 11, for connector wiring details.

5. Connect input devices (see "Front Panel Features", page 9, for connector details), restore the power supply, and test the wall plate. Make any cabling adjustments before final installation, as the cables will be inaccessible afterwards.

To Install into a Wall Box

Choose a location that allows cable runs without interference. Allow enough depth for both the wall box and the cables. The box should be at least 2.5 inches (6.4 cm) deep to accommodate the connectors and cables. Install the cables into the wall, furniture, or conduits before installing the wall plate.
Follow the steps below

1. Feed cables for the output devices through the opening and through the wall box punch-out holes, securing them with cable clamps to provide strain relief.

2. Trim back and/or insulate exposed cable shields with heat shrink to reduce the chance of short circuits. To prevent short circuits, the outer foil shield can be cut back to the point where the cable exits the cable clamp. Both braided and foil shields should be connected to an equipment ground at the other end of the cable.

3. Connect the Pole Vault switcher cables to the rear of the PVT wall plate. See "Rear Panel Features" on page 11 for connector wiring details.

4. Connect input devices (see "Front Panel Features" on page 9 for connector details), restore the power supply, and test the wall plate. Make any cabling adjustments before final installation, as the cables are inaccessible afterwards.

Installing the PVT CV and PVT RGB AAP models

The PVT CV AAP and PVT RGB AAP must be attached to a device faceplate or AAP wall plate and cabled before the device or wall plate is tested and installed in a wall or furniture.

1. Before attaching any cables, insert the AAP standoffs through the holes in the faceplate or AAP wall plate.

2. Using the supplied #4-40 nuts and captive washers, secure the AAP to the faceplate or wall plate.
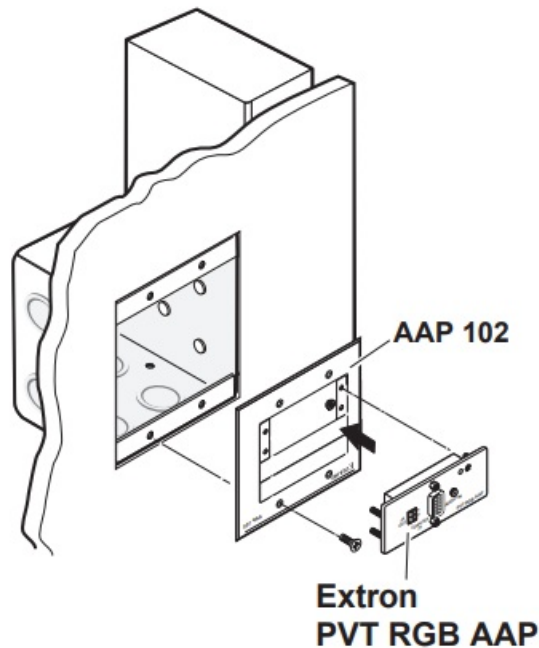
Figure 8. Mounting the PVT RGB AAP

3. Repeat steps **1** and **2** to mount any other AAPs. Cover any openings in the faceplate with blank plates (provided with the AAP faceplate).

4. Be sure to include the AAP connectors as part of the installation pretest before final installation of the faceplate.

5.   For more detailed installation information, refer to the installation guide shipped with the device.

    NOTE: The PVT input wall plate should be cabled and tested before it is finally installed into the wall or device face plate. The rear panel connections will be inaccessible after installation. See Rear Panel – Features on page 11.

6. After testing and making any adjustments, turn off the power supply to the Pole-vault switcher, and carefully secure the faceplate on the wall box device.

7. Reconnect the cables and turn on the power supply to the switcher. This powers up the AAP plates.

Connections and Settings

The section discusses the method of cabling and using EDID Minder for the PVT series Wallplates.
This section covers the following:
CAUTION: Do not connect these devices to a computer data or telecommunications network.
Front Panel Features
The front panel features are the same within these groups:

- PVT CV D and PVT CV AAP, and
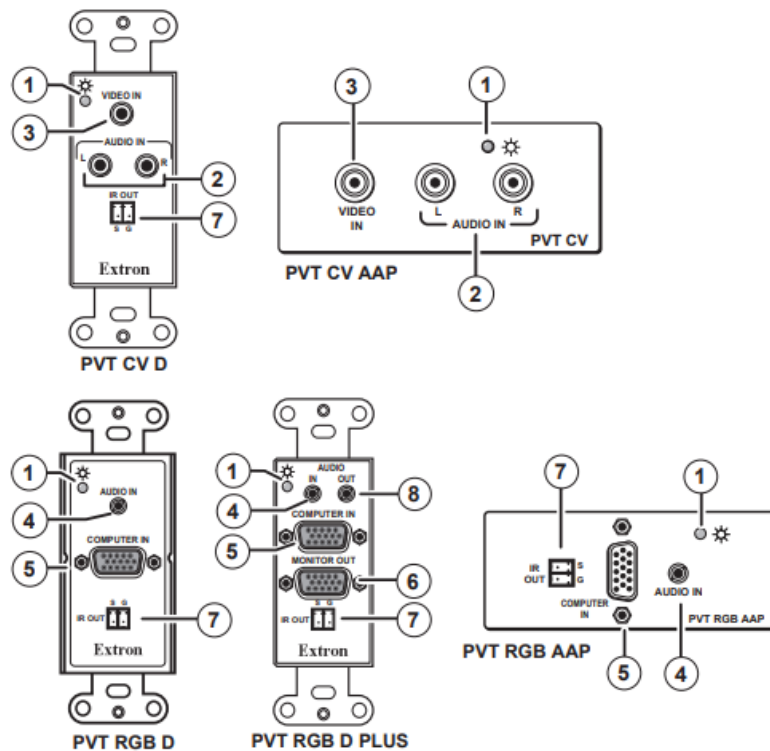- PVT RGB D, PVT RGB D Plus, and PVT RGB AAP:

Figure 9. PVT series front panel features

1. Dual color power LED (all models) — This LED lights red when power only (no signal) is applied to the PVT, and green when power and signal are both present. ☼⃝

2. Audio (left and right) input (CV D and CV AAP models) — For unbalanced left and right audio input, plug male RCA audio plugs into these two female RCA jacks (white = left, red = right). ◉
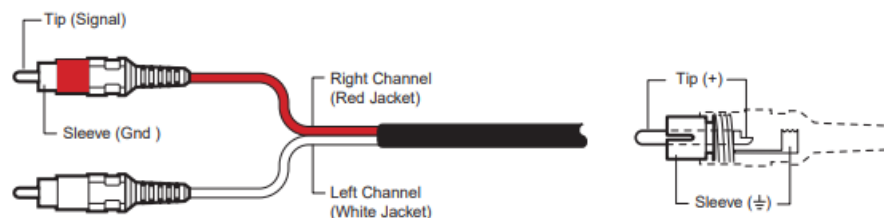

Figure 10. RCA audio connectors

3. **Composite video input (CV D and CV AAP models) —** To input a composite video signal from a suitable source, insert a male RCA plug into this yellow female RCA jack. ◉

4. **Audio input (RGB D and RGB AAP models) —** Plug a 3.5 mm stereo audio plug into this jack for unbalanced audio input. Wire the plug as shown in figure 13. ◉

Figure 11. 3.5 mm stereo audio plug

5. RGB video input (RGB D and RGB AAP models) — Connect a computer video source to this 15-pin HD connector for high resolution RGB video input. ◉▭◉

6. Local monitor output (RGB D Plus model) — Connect a monitor to this 15-pin HD to view the output locally.

MONITOR OUT

7. IR pass-through (All models except PVT CV AAP) — Connect to this 2-pole IR pass-through connector to

S G

provide control via IR devices

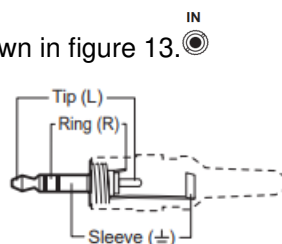8. Audio pass-through (RGB D Plus model) — Plug a local audio device into this 3.5 mm stereo jack for audio

OUT

pass-through. Wire the plug as shown in figure 13.

Rear Panel
Output cabling
The PVT cable termination method is specific for PVT input wall plates used with the Pole Vault switcher. The supplied cables are terminated to TIA/EIA T 568A standard.
NOTE: When terminating CAT 5e, CAT 6, and Skew-Free A/V UTP cables with RJ-45 connectors, it must comply with the TIA/EIA T 568A or T 568B wiring standards, with the same standard used at both ends. DO NOT connect to an MTP system.

Pins:
12345678

Side View

Insert Twisted
Pair Wires

RJ-45 Connector
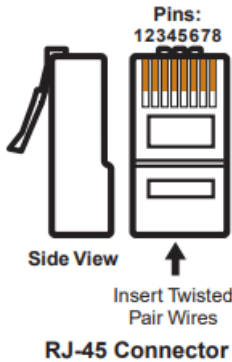
Pin	568A Wire Color	568B Wire Color
1	White-green	White-orange
2	Green	Orange
3	White-orange	White-green
4	Blue	Blue
5	White-blue	White-blue
6	Orange	Green
7	White-brown	White-brown
8	Brown	Brown

Rear Panel — Features
All models have the output connectors on the rear panel.
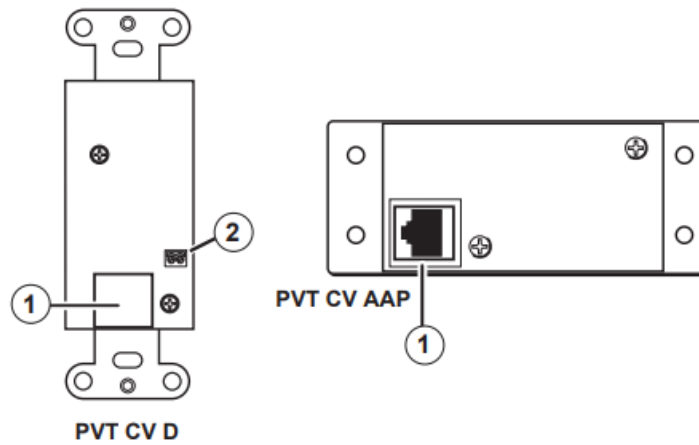
Figure 12. PVT CV models rear panel features

1. Composite video output (PVT CV models) — For composite video output, using CAT 5e or 6 UTP cable, connect this RJ-45 female video output port to one of the two composite video RJ-45 input connectors (labelled 3 and 4 video), on the rear panel of the Pole Vault switcher.
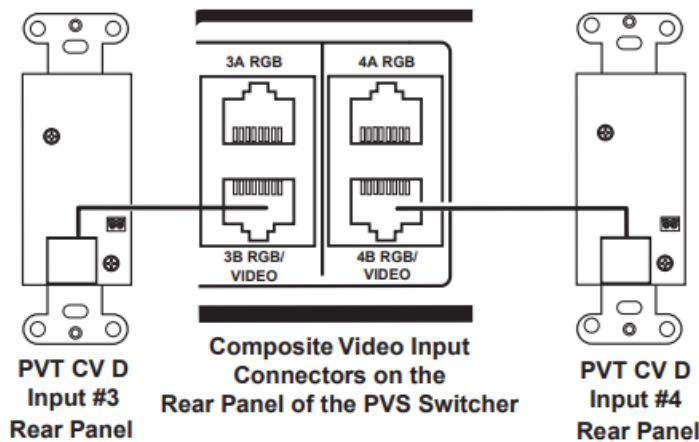
Figure 13. Connecting the PVT CV D to the PoleVault switcher

2. IR connector (2-pole) (PVT RGB D, PVT RGB AAP, PVT RGB D Plus models) — For IR pass-through control, wire this connector from the IR controller, with ground to "G" and signal to "S").
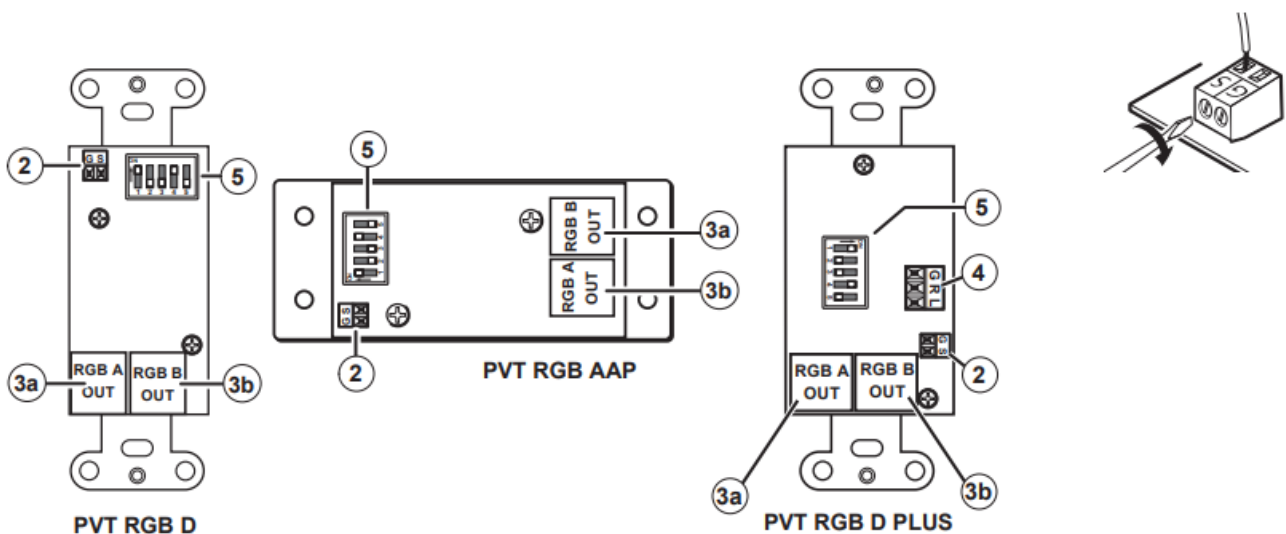
Figure 14. PVT RGB models rear panel features

3. **3a RGB A output (PVT RGB models)** — Using CAT 5e or 6 UT cable, connect this RJ-45 female output port labelled "RGB A out" to one of the input ports labelled A (for example, 2A) on the Pole-vault switcher.

3b RGB B output (PVT RGB models) — Using CAT 5e or 6 UTP cable, connect this RJ-45 female output port labelled "RGB A out" to one of the input ports labelled B (for example, 2B) on the Pole Vault switcher.

NOTE: Cable A carries horizontal sync information and the red, green, and blue signals. Cable B primarily carries the audio signal, the vertical sync information, and 5 VDC to power the PVT transmitter.
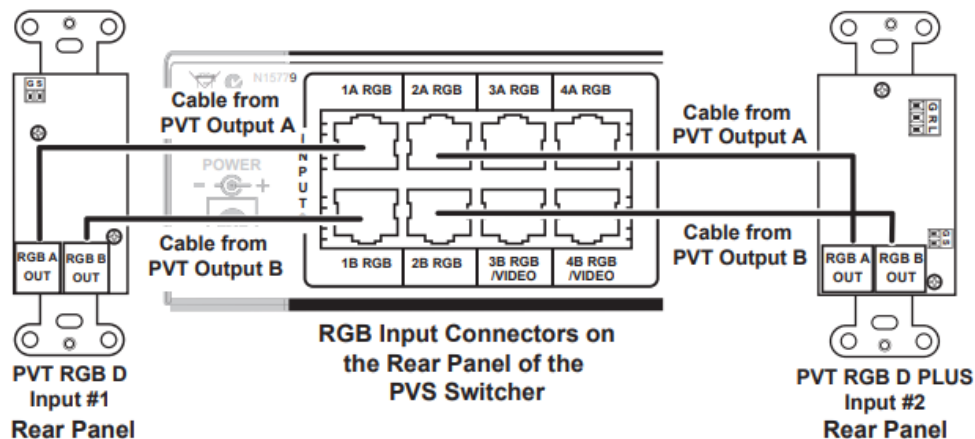
Figure 15. Connecting the PVT RGB D or PVT RGB D Plus to the PoleVault switcher

4. **Audio pass-through connector (PVT RGB D Plus models)** — Connect an audio source to this 3-pole connector for audio pass through output. Connect the ground to "G", right speaker to "R", and left speaker to "L".

5. **EDID Minder 5-pole DIP switch** — If the display refresh rate and resolution is known, set the EDID Minder 5-pole DIP switches according to the EDID table (see "EDID Minder" section, page 13 for details).

   Alternatively, if the EDID Minder is used in Learn mode, set all the DIP switches to off.

EDID Minder

The PVT RGB D (EDID), PVT RGB D Plus (EDID), and PVT RGB AAP (EDID) incorporates EDID Minder, which allows the transmitter to communicate the appropriate EDID information to the source, ensuring correct video output resolution.

The 5-pole EDID Minder settings DIP switch is located on the rear of the wall plate. Once installed, these switch settings are only accessible by removing the device from its installed location.

The factory EDID setting (default) is 1024×768@60 Hz (preset 2).
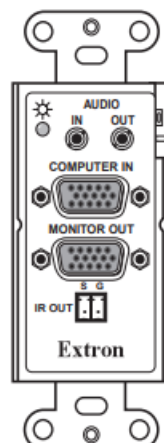
The EDID Minder has two modes; a Preset (Emulation) mode and a Learn mode.

• Preset Mode is available on all PVT RGB (EDID) models, and allows selection of pre-programed EDID rates, as

shown in the table below.

- Learn Mode is available only on the PVT RGB D Plus model, and enables the displays specific EDID information to be recorded and emulated by the input wall plate.

  To use the EDID Minder mode in Preset or Learn Mode, follow the instructions below

Using Preset mode

1. If already installed, disconnect any sources and displays from the front panel and remove the wall plate from the wall.
2. On the rear panel, set DIP switch 1 to 50 or 60 kHz as desired.
3. Set DIP switches 2 – 5 accordingly to match the desired EDID rate (see table below).

This setting is
for 1024x768@60 Hz,
preset 2 (factory default)
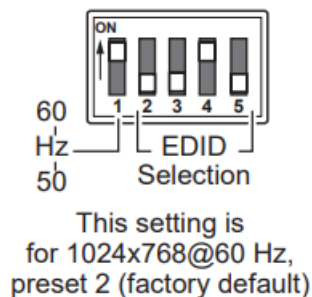
4. Connect the video source to the "Computer In" VGA connector and a local display device to the "Monitor Out" port.
5. Restart the video source and display devices. Verify the image, making any changes to the EDID settings as needed.
6. When the image is correct, re-install the wall plate. Re-connect and restart the source and display devices.

| Preset Number	Switch setting				Resolution
	2	3	4	5	
0	OFF	OFF	OFF	OFF	Learn Mode (PVT RGB D Plus only)
1	OFF	OFF	OFF	ON	800×600
2	OFF	OFF	ON	OFF	1024×768 (default)
3	OFF	OFF	ON	ON	1280×720
4	OFF	ON	OFF	OFF	1280×768
5	OFF	ON	OFF	ON	1280×800
6	OFF	ON	ON	OFF	1280×1024
7	OFF	ON	ON	ON	1360×768
8	ON	OFF	OFF	OFF	1366×768
9	ON	OFF	OFF	ON	1400×1050
A	ON	OFF	ON	OFF	1440×900
B	ON	OFF	ON	ON	1600×1200
C	ON	ON	OFF	OFF	1680×1050
D	ON	ON	OFF	ON	1920×1080
E	ON	ON	ON	OFF	1920×1200
F	ON	ON	ON	ON	N/A

Using Learn mode (available on PVT RGB D Plus only)

1. Disconnect any sources from the front panel and remove the wall plate from the wall.
2. On the rear panel, set all the DIP switches to off (down).
3. Temporarily connect the main display device (the projector) to the "Monitor Out" port.
4. On the front panel, the learn LED is lit solid green. Press and release the Learn button.
5. The LED flashes red when in "learning" mode, then returns to solid green when complete.
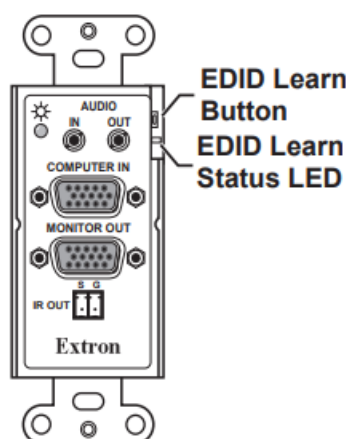
6. Re-install the wall plate and reconnect the source device. Connect a local display device to the "Monitor Out" port as needed.
7. Reconnect the projector to the Pole-vault switcher. Restart the source and display devices

Final installation

After testing and making any adjustments, do the following:

1. Turn off the power supply to the Pole Vault switcher.

    NOTE: The power to the transmitter is supplied by the Pole Vault switcher.

2. Mount the transmitter into the box or mud ring, and attach the supplied Decora faceplate to the transmitter, as shown below.
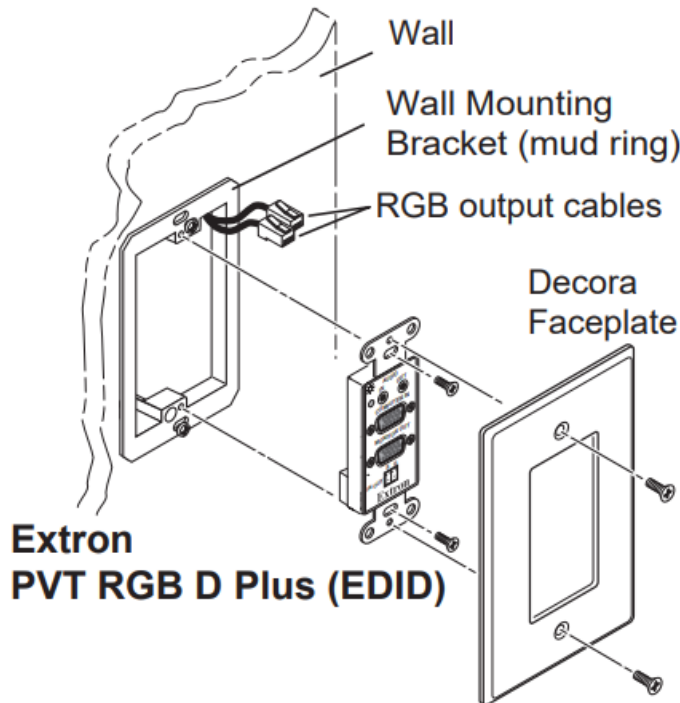
Figure 16. Mounting the PVT RGB D Plus (EDID)

3. Reconnect the cables and turn on the power supply to the switcher This powers up the wall plates.

Reference Material

This section provides information about:

Specifications
PVT Series
NOTE: These transmitters are compatible only with an Extron Pole Vault® Switcher (PVS). They are not compatible with other models of twisted pair receivers.

Video — RGB
Gain ……………………………………….. Unity
Video input and loop-through — RGB
Number/signal type
PVT RGB D Plus models ………… 1 VGA-UXGA RGBHV, RGBS
1 buffered RGBHV, RGBS local monitor loop-through
All other models …………………. 1 VGA-UXGA RGBHV, RGBS Connectors
PVT RGB D Plus …………………… 2 female 15-pin HD (1 for input, 1 for loop-through)
All other models ………………… 1 female 15-pin HD
Nominal level …………………………… 0.7 Vp-p for RGB
Minimum/maximum levels ………….. Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance ……………………………… 75 ohms
Horizontal frequency …………………. 15 kHz to 130 kHz
Vertical frequency ……………………… 30 Hz to 150 Hz

Return loss ………………………………… <-30 dB @ 5 MHz
DC offset (max. allowable) …………. 250 mV
Video output — RGB
Number/signal type …………………… 2 analog proprietary signals Connectors
All models ………………………….. 2 female RJ-45
Sync — RGB
Input type ………………………………….. RGBHV, RGBS
Input level …………………………………. 3.5 V to 5.5 Vp-p, unterminated
Input impedance ………………………. 510 ohms
Max. input voltage …………………….. 5.5 Vp-p
Video — composite video
Gain ……………………………………….. Unity
Differential phase error ……………… <1.0° at 3.58 MHz and 4.43 MHz
Differential gain error …………………. <1.0% at 3.58 MHz and 4.43 MHz
Video input — composite video
Number/signal type …………………… 1 composite video
Connectors …………………………………. 1 female RCA
Nominal level …………………………….. 1 Vp-p for composite video
Minimum/maximum levels ………….. Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance ……………………………….. 75 ohms
Return loss ……………………………….. <-30 dB @ 10 MHz
DC offset (max. allowable) …………. 100 mV
Video output — composite video
Number/signal type …………………… 1 analog proprietary signal
Connectors
All models …………………………….. 1 female RJ-45
Sync — composite video
Standards ……………………………………. NTSC 3.58, NTSC 4.43, PAL, SECAM
Audio input
Number/signal type
PVT RGB D Plus …………………….. 2 steer
eo, unbalanced: 1 input, 1 pass-through
All other models …………………….. 1 stereo, unbalanced
Connectors
All RGB models …………………… (1) 3.5 mm mini audio jack (tip, ring, sleeve)
All CV models …………………….. 1 pair female RCA
Impedance ……………………………….. >10k ohms unbalanced, AC coupled
Nominal level …………………………… -10 dBV (316 mars)
Maximum level ………………………….. +11 dBu, (unbalanced) at 1% THD+N
NOTE: 0 dBu = 0.775 Vims, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu
Audio output to a Pole Vault switcher (all models)
Number/signal type …………………… 1 analog proprietary signal
Connectors
All models …………………………. 1 female RJ-45
Audio output — pass-through, PVT RGB D Plus only
Number/signal type …………………… 1 stereo, unbalanced
Connector ……………………………….. (1) 3.5 mm mini audio jack (tip, ring, sleeve)
Control — IR port — PVT CV D, PVT RGB D Plus, PVT RGB D (EDID), PVT RGB AAP (EDID)
Number and connectors …………….. 1 female 3.5 mm captive screw connector, 2 pole, for IR pass-through
General
Power ………………………………………….. Supplied by a Pole Vault twisted pair receiver/switcher
Power input requirements
PVT RGB D, PVT RGB AAP, PVT RGB D Plus
5.5 VDC, 0.15 A
PVT CV AAP, PVT CV D ………… 5.5 VDC, 0.11 A
Temperature/humidity ……………….. Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling ………………………………………. Convection, no vents
Mounting

Rack mount

PVT CV AAP, PVT RGB AAP Yes, with optional faceplate

Furniture or wall mount

PVT CV D, PVT RGB D, PVT RGB D Plus

Yes, with the included Decora ® wall plate

PVT CV AAP, PVT RGB AAP Yes, with optional faceplates or AAP wall plates

Enclosure type

PVT CV D, PVT RGB D, PVT RGB D Plus

Plastic

All other models …………………. Metal

Enclosure dimensions

)PVT CV D, PVT RGB D and PVT RGB D Plus (including EDID models)

Faceplate ……………………… 2.6″ H x 1.3″ W x 0.2″ D

(6.6 cm H x 3.3 cm W x 0.6 cm D)

(Fits the openings in a 1 gang Decora® plate.)

Device ………………………….. 2.7″ H x 1.7″ W x 1.6″ D

(6.9 cm H x 4.3 cm W x 4.1 cm D)

(Depth excludes connectors, height excludes mounting tabs.)

PVT RGB AAP (EDID)

Faceplate ……………………… 1.4″ H x 3.5″ W x 0.1″ D

(3.5 cm H x 8.9 cm W x 0.3 cm D)

(double space AAP plate)

Device ………………………….. 1.4″ H x 2.7″ W x 1.6″ D

(3.6 cm H x 6.9 cm W x 4.1 cm D)

(Depth excludes connectors, height excludes mounting tabs.)

Product weight

All models …………………………. 0.2 lbs (0.1 kg)

Shipping weight ………………………... 2 lbs (1 kg)

Vibration …………………………………. ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety ……………………………….. CE, c-UL, UL

EMI/EMC ………………………… CE, C-tick, FCC Class A, ICES, VCCI

MTBF ………………………………………… 30,000 hours

Warranty ………………………………. 3 years parts and labor

NOTES: All nominal levels are at ±10%.

Specifications are subject to change without notice.

Part Numbers and Accessories

Pole Vault AV Input Plate Part Numbers

Description	Part Number
PVT CV D	60-819-33
PVT RGB D	60-1066-03
PVT RGB D PLUS	60-1065-03
PVT CV AAP, black, white	70-579-12,13
PVT RGB AAP, black, white	70-722-02,03

Included Parts

Items marked * are for PVT CV D, PVT RGB D, and PVT RGB D Plus models only.

Description	Quantity
Single gang Decora® wall plate*	1
Single gang mudding*	1
Captive screw connector, 2-pole	1
6-32, 7/8L, mounting screws*	2
Tie Wrap	1
Setup guide	1

Optional Accessories

Description	Part Number
CAT 5e cable, 35′, plenum	26-637-35
CAT 5e cable, 50′, plenum	26-637-50
CAT 5e cable, 75′, plenum	26-637-75
CAT 5e cable, 100′, plenum	26-637-100

AAP Optional Parts
These items can be ordered separately and for AAP models only:

Description	Part Number
AAP 100 panel, black, white	60-593-02, 03
AAP 102 panel, black, white	60-300-02, 03
AAP 104 panel, black, white	60-301-02, 03
AAP 201 panel, ½ rack width, 1U, black	60-302-02
AAP 301 panel, 1 rack width, 1U, black	60-632-02
AAP 302 panel, 1 rack width, 2U, black	60-633-02

Extron Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is
returned within the warranty period, with proof of purchase and description of malfunction to:

USA, Canada, South America, and Central America:	Japan:
Extron Electronics 1001 East Ball Road Anaheim, CA 92805 U.S.A.	Extron Electronics, Japan Kyodo Building, 16 Ichibancho Chiyoda-ku, Tokyo 102-0082 Japan
Europe and Africa:	**China**:
Extron Europe Hanzeboulevard 10 3825 PH Amersfoort The Netherlands	Extron China 686 Ronghua Road Songjiang District Shanghai 201611 China
Asia:	**Middle East:**
Extron Asia 135 Joon Seng Road, #04-01 PM Industrial Bldg. Singapore 368363 Singapore	Extron Middle East Dubai Airport Free Zone F12, PO Box 293666 United Arab Emirates, Dubai

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions, or if modifications were made to the product that were not authorized by Extron.

NOTE: If a product is defective, please call Extron and ask for an Application Engineer to receive an RA (Return Authorization) number. This will begin the repair process.

USA: 714.491.1500 or 800.633.9876

Asia: 65.6383.4400

Europe: 31.33.453.4040

Japan: 81.3.3511.7655

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct,

indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.

Extron Headquarters	Extron Europe	Extron Asia	Extron Japan	Extron China	Extron Middle East	Extron Korea	Extron India
+1.800.633.9876 (Inside USA/Canada Only) Extron USA – West Extron USA – East +1.714.491.1500 +1.919.850.1000 +1.714.491.1517 FAX +1.919.850.1001 FAX	+800.3987.6673 (Inside Europe Only) +31.33.453.4040 +31.33.453.4050 FAX	+800.7339.8766 (Inside Asia Only) +65.6383.4400+ 65.6383.4664 FAX	+81.3.3511.7655 +81.3.3511.7656 FAX	+4000.398766 Inside China Only +86.21.3760.1568 +86.21.3760.1566 FAX	+971.4.2991800 +971.4.2991880 FAX	+82.2.3444.1571 +82.2.3444.1575 FAX	1800.3070.3777 Inside India Only +91.80.3055.3777 +91.80.3055.3737 FAX

Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

Documents / Resources

	Extron PVT Series PoleVault Twisted Pair Input Wallplates [pdf] User Guide PVT CV D, PVT RGB D Plus, PVT RGB D PVT CV AAP, and PVT RGB AAP, PVT Series PoleVault Twisted Pair Input Wallplates, PVT Series, PoleVault Twisted Pair Input Wallplates, Twisted Pair Input Wallplates, Pair Input Wallplates, Input Wallplates, Wallplates

References

- E **Extron - The AV Technology Leader**
- Ⓜ **Manual-Hub.com - Free PDF manuals!**
- **User Manual**

Manuals+, **Privacy Policy**