



Audio input (see the PVT series wallplates audio specifications)	
Number/signal type .....	2 proprietary signals from Extron PVT Series wallplate transmitters 1 stereo, balanced/unbalanced (input 7)
Connectors .....	2 female RJ-45 1 female 3.5 mm captive screw connector, 5 pole (input 7)
VoiceLift receiver input.....	1 female RJ-45, -10 dBV (316 mVrms) nominal level
Aux input .....	1 female 3.5 mm captive screw connector, 3 pole
Audio output	
Number/signal type .....	1 line output, stereo/mono, balanced/unbalanced, fixed/variable 1 power amplifier, stereo or dual mono (default), 2 channels total
Connectors .....	(1) 3.5 mm captive screw connector, 5 pole (1) 5.0 mm captive screw connector, 4 pole

**NOTE:** Unbalanced wired outputs produce 6 dB of attenuation. Balanced output has unity gain/attenuation.

Power amplifier	
Amplifier type.....	Class D
Impedance .....	4/8 ohms (single channel) 4/8 ohms (stereo)
Output power .....	25 watts (rms) per channel (1 watt tolerance) at 4/8 ohms, 20 Hz to 20 kHz, 1% THD
Ethernet control interface	
Switch type.....	Unmanaged
Ethernet ports.....	4 female RJ-45 with built-in link/speed and activity LEDs
Ethernet data rate.....	10/100Base-T (10/100 Mbps) with autodetect
General	
Power supply .....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 4 A, 48 watts
Power input requirements.....	12 VDC, 4 A
Mounting	
Wall mount .....	Yes, with included wall mounting kit
Enclosure dimensions.....	1.9" H x 13.5" W x 3.5" D (4.8 cm H x 34.3 cm W x 8.9 cm D)
Product weight .....	2.9 lbs (1.3 kg), including power supply (1.1 lbs [0.5 kg])
Regulatory compliance	
Safety .....	CE, c-UL, UL UL listed for use in plenum airspaces: meets UL 2043 for heat and smoke release, excluding the power supply; meets UL 60065 for safety.
EMI/EMC.....	CE, C-tick, FCC Class A, ICES, VCCI
Environmental.....	Complies with the appropriate requirements of RoHS, WEEE

### Interconnection between PVT wallplates and PVS switcher

Connector.....	1 female RJ-45 per wallplate
Termination standard.....	TIA/EIA T568A or T568B Included Extron cables are T568B
Signal transmission distance .....	Up to 4096x21060 @30 Hz, 3840x2160 @30 Hz, 4K/UHD @ 60 Hz with 4:2:0 Chroma subsampling. Up to 150' (46 m) for 2K rate, or up to 130' (40 m) for 4K/30 Hz, using Extron XTP DTP 24 cable. Standard included cable length is 35' (11 M).
Cable requirements.....	Solid conductor, 24 AWG or better 400 MHz bandwidth, STP (shielded twisted pair)

**NOTE:** Extron XTP DTP 24 shielded twisted pair cable is required for optimal performance.

## PVT HDMI RGB and PVT HDMI wallplates

**NOTE:** These wallplates are compatible only with an Extron PoleVault® PVS 407D Digital Switcher. They are not compatible with other models of twisted pair receivers.

### Video - digital

Maximum data rate .....	6.75 Gbps (2.2 Gbps per color)
Maximum pixel clock .....	165 MHz
Resolution range .....	Up to 4096x2160 @ 30 Hz, 3840x2160 @ 30 Hz, 4K/UHD @ 60 Hz with 4:2:0 Chroma subsampling
Formats.....	RGB and YCbCr digital video
Standards.....	DVI 1.0, HDMI 1.4, HDCP 1.4, CEA-861E

### Video input and loop-through

Number/signal type	
PVT HDMI RGB .....	1 single link HDMI (or DVI-D) 1 VGA-UXGA RGBHV, RGBS 1 buffered RGBHV, RGBS local monitor loop-through
PVT HDMI.....	2 single link HDMI (or DVI-D)

### Connectors

PVT HDMI RGB .....	1 female HDMI type A 2 female 15-pin HD (1 for input, 1 for loop-through)
PVT HDMI.....	2 female HDMI type A

### Video output

Number/signal type .....	1 digital proprietary signal
Connectors .....	1 female RJ-45

### Audio input

Number/signal type	
PVT HDMI RGB .....	2 analog stereo, unbalanced or 1 digital audio, embedded on the HDMI signal 1 analog pass-through
PVT HDMI.....	2 analog stereo, unbalanced, or 2 digital audio embedded on the HDMI signal

### Connectors

PVT HDMI RGB .....	(2) 3.5 mm stereo mini audio jacks (tip, ring, sleeve) 1 female HDMI type A (embedded on the HDMI signal) (1) 3-pole captive screw connector (pass-through)
PVT HDMI.....	(2) 3.5 mm stereo mini audio jacks (tip, ring, sleeve) 2 female HDMI type A (embedded on the HDMI signal)

### Audio output to a PoleVault switcher

Number/signal type .....	1 digital proprietary signal
Connector .....	1 female RJ-45

### Audio output, pass through — PVT HDMI RGB only

Number/signal type .....	1 stereo, unbalanced
Connector .....	(1) 3.5 mm mini audio jack (tip, ring, sleeve)

### General

Power.....	Supplied by the PoleVault Digital switcher
Power input requirements.....	12.0 VDC, 1.0 A

### Mounting

Furniture or wall mount .....	Yes, with the included decorator-style wallplate
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### Enclosure dimensions

Faceplate.....	2.6" H x 3.2" W x 0.2" D (6.6 cm H x 8.1 cm W x 0.6 cm D) (Fits the openings in a 2 gang decorator-style wallplate.)
Device .....	2.7" H* x 3.6" W x 2.0" D (6.9 cm H* x 9.1 cm W x 5.1 cm D) (Depth excludes connectors.) *Height excludes mounting tabs.

Product weight .....	0.6 lbs (0.3 kg)
Regulatory compliance	
Safety .....	CE, c-UL, UL
EMI/EMC .....	**CE, C-tick, **FCC Class A, ICES, VCCI

**NOTE:** \*\*CE and FCC testing is conducted with STP (shielded twisted pair) cable.

## MLC 104 IP Plus

### Control — host ports

Serial host port .....	1 bidirectional RS-232 front panel 2.5 mm mini stereo jack
Baud rate and protocol.....	38400, 8 data bits, 1 stop bit, no parity
Ethernet host port .....	1 RJ-45 female
Ethernet data rate.....	10/100Base-T, half/full duplex with autodetect
Ethernet protocol.....	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, SMTP, Telnet
Web server .....	Up to 200 simultaneous sessions 7.25 MB nonvolatile user memory
Secondary control panel (SCP)	(1) 3.5 mm 5-pole direct insertion captive screw connector

### Control — serial ports

Display control port .....	(1) 3.5 mm direct insertion captive screw connector, 3 pole, for bidirectional RS-232 control ( $\pm 5$ V)
Switcher control port .....	(1) 3.5 mm direct insertion captive screw connector, 3 pole, for bidirectional RS-232 control ( $\pm 5$ V)

### Control — IR port

IR control port .....	(1) 3.5 mm direct insertion captive screw connector, 2 pole TTL level (0 to 5 V) infrared control up to 1 MHz
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### Digital I/O control

Number/type .....	3 digital input/output (configurable)
Connector .....	(1) 3.5 mm direct insertion captive screw connector, 4 pole

### General

Power.....	Supplied by the PVS 407D twisted pair receiver/switcher
Power input requirements.....	12 VDC, 0.285 A (0.305 A if used with an optional IRCM-DV+)
Mounting .....	Wall and furniture mountable
Enclosure type.....	High-impact plastic faceplate, metal rear enclosure
Enclosure dimensions.....	Faceplate: 4.5" H x 4.6" W x 0.1" D (11.4 cm H x 11.7 cm W x 0.3 cm D) (2 gang) Device: 2.7" H x 3.4" W x 1.8" D (6.9 cm H x 8.6 cm W x 4.6 cm D) (Depth excludes knob and buttons. Fits some 2 gang boxes. Allow at least 1.9" [4.8 cm] depth in the wall or furniture.)
Product weight .....	0.6 lbs (0.3 kg)
Regulatory compliance	
Safety .....	CE, c-UL, UL
EMI/EMC .....	CE, C-tick, FCC Class A, ICES, KC mark, VCCI
Accessibility .....	Complies with the appropriate requirements of Section 508 of the Rehabilitation Act (29U.S.C.794d).

### **WMK 160 (WVS 211D and WVS 411D Systems only)**

Mounting	
Wall mount .....	Yes, with included hardware
Maximum load capacity .....	15 lbs (6.8 kg)
Material.....	Steel base plate, aluminum cover
Dimensions	
Base plate .....	17.1" H x 16.4" W x 1.5" D (43.4 cm H x 41.7 cm W x 3.8 cm D)
Cover .....	17.3" H x 16.5" W x 2.75" D (43.9 cm H x 41.9 cm W x 7.0 cm D)
Product weight .....	5.5 lbs (2.5 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	c-UL, UL, OSHPD anchorage pre-approval

### **USFM 100 (WVS 201D and WVS 401D Systems only)**

Mounting .....	Wall mount with included hardware
Maximum projector load capacity...	20 lbs (9.1 kg) projector weight (does not include the UPB 125)
Material.....	Steel (structural parts), plastic (covers), aluminum (boom arm covers)
Dimensions	
Base plate .....	11.1" H x 34.4" W x 2.2" D (28.2 cm H x 87.4 cm W x 5.6 cm D)
Base plate with covers .....	12.9" H x 36.3" W x 2.7" D (32.8 cm H x 92.2 cm W x 7.0 cm D)
Boom arm .....	12.5" H x 3.6" W x 21.7 - 31.8" D (31.8 cm H x 9.1 cm W x 55.1 - 80.8 cm D)
Boom extension range .....	17.5" (44.5 cm)
Product weight .....	17 lbs (7.7 kg)

**NOTE:** Weights exclude the UPB 125.

Regulatory compliance	
Safety.....	c-UL, UL, OSHPD anchorage pre-approval

### **UPB 125 (WVS 201D and WVS 401D Systems only)**

Adjustment ranges.....	The UPB 125 can be angled within the following ranges to level the projector: ±5° roll ±20° pitch 360° yaw
Maximum load capacity .....	15 lbs (6.8 kg)
Enclosure type .....	Metal
Projector bracket dimensions.....	3.2" H x 7.0" W x 7.0" D (8.1 cm H x 17.8 cm W x 17.8 cm D) (Dimensions exclude legs/feet.)
Product weight .....	2.7 lbs (1.2 kg)
Regulatory compliance	
Safety.....	CE, c-UL, UL

## FF 120 Flat Field® Speakers

Power capacity .....	16 W (rms) continuous pink noise 32 W (rms) continuous program
Nominal coverage angle.....	170° conical coverage
Nominal impedance .....	8 ohms per speaker
Mounting .....	Drops into a 2' x 2' (61 cm x 61 cm) or 2' x 4' (61 cm x 122 cm) suspended tile
Enclosure outer dimensions .....	3.25" H x 23.75" W x 11.75" D (8.3 cm H x 60.3 cm W x 29.9 cm D)
Product weight .....	Single: 4.7 lbs (2.1 kg)
Regulatory compliance	
Safety .....	CE, NFPA90A, NFPA70; UL listed for use in plenum airspaces: meets UL 2043 for heat and smoke release; meets UL 1480 - speakers for commercial and professional use.

**NOTE:** All nominal levels are at ±10%.

**NOTE:** Specifications are subject to change without notice.

**NOTE:** Shipping weights and dimensions are available at [www.extron.com](http://www.extron.com).

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