

Specifications

WallVault Digital Systems

(WVS 200D, WVS 210D, WVS 400D, and WVS 410D)

Overall system

STP transmission	Up to 150' (46 m)
	Standard included cable length is 35' (11 m)
Shipping weight	
WVS 200D System.....	71 lbs (32 kg)
WVS 400D System.....	73 lbs (33 kg)
WVS 210D System.....	48 lbs (22 kg)
WVS 410D System.....	50 lbs (23 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Warranty	3 years parts and labor

PVS 405D switcher/power amplifier

Video — digital

Maximum data rate	6.75 Gbps (2.2 Gbps per color)
Maximum pixel clock	165 MHz
Resolution range	Up to 2048x1080 or 1080p @ 60Hz
Formats.....	RGB and YCbCr digital video
Standards.....	DVI 1.0, HDMI, HDCP 1.1

NOTE: Appropriate HDMI to DVI-D cables or adapters are required for DVI signal input/output.

Video input

Number/signal type	Inputs 1 - 4: HDMI (or DVI) digital video
Connectors	2 female RJ-45 (See the user guide for pin configurations.)

Video output

Number/signal type	1 single link HDMI (or DVI-D)
Connectors	1 female HDMI type A

Audio input (see the PVT series wallplates audio specifications)

Number/signal type	2 proprietary signals from Extron PVT Series wallplates and transmitters
	1 stereo, balanced/unbalanced (input 5)
Connectors	2 female RJ-45
	1 female 3.5 mm captive screw connector, 5 pole (input 5)
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.....	3 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	
Pole mount.....	Yes, with optional pole 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

PVT SW HDMI RGB D and PVT SW HDMI D wallplates

NOTE: These transmitters are compatible only with an Extron PoleVault® Digital Switcher (PVS 405D). 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 2048x1080 or 1080p @ 60Hz, 8/10/12 bit color depth
Formats.....	RGB and YCbCr digital video
Standards.....	DVI 1.0, HDMI, HDCP 1.1

Video input and loop-through

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

Connectors

PVT SW HDMI RGB D	2 female 15-pin HD (1 for input, 1 for loop-through) 1 female HDMI type A
PVT SW HDMI D.....	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 SW HDMI RGB D	2 analog stereo, unbalanced or 1 digital audio, embedded on the HDMI signal 1 analog pass-through
PVT SW HDMI D.....	2 analog stereo, unbalanced, or 2 digital audio embedded on the HDMI signal

Connectors	
PVT SW HDMI RGB D	(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
PVT SW HDMI D.....	(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 SW HDMI RGB D 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
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.

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.....	2048x1080 or 1080p @ 60Hz, 8/10/12 bit color depth 720p/1080i or 1024x768 @ 60Hz Up to 150' (45.7 m) using Extron XTP DTP 24 cable

NOTE: Extron shielded twisted pair cable is strongly recommended for optimal performance.

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 (±5 V)
Switcher control port	(1) 3.5 mm direct insertion captive screw connector, 3 pole, for bidirectional RS-232 control (±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
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 405D 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 210D and WVS 410D 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	4.5 lbs (2.0 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	c-UL, UL, OSHPD anchorage pre-approval

USFM 100 (WVS 200D and WVS 400D 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 200D and WVS 400D 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	25 lbs (11.3 kg)
Enclosure type	Steel
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.

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