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
   Connectors ....................... 1 stereo, balanced/unbalanced (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
   Connectors ....................... 1 power amplifier, stereo or dual mono (default), 2 channels total
   VoiceLift receiver output ...... 1 female 3.5 mm captive screw connector, 5 pole
   Aux output ....................... 1 female 3.5 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.