

Specifications VoiceLift Pro System Kit

Overall system

Operating range.....	40' x 40' minimum coverage
Reception area.....	1600 square feet (148.6 square meters) minimum
Radio frequency.....	1900 MHz
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
EMI/EMC.....	CE, FCC Class B
Environmental.....	Complies with the appropriate requirements of RoHS and WEEE
Warranty	
Product	3 years parts and labor
Microphone battery	90 days

VLP 302 Pendant Microphone

User controls	Power, volume, and function
Audio input	
Number/signal type	1 mono, via integrated MEMS microphones 1 mono, unbalanced, via auxiliary mic input jack
Connector	(1) 3.5 mm mini audio jack (tip = audio signal/bias voltage, sleeve = GND)
Batteries	
Number/type	1 AA size NiMH or alkaline battery
Operating life	Rechargeable 2400 mAh NiMH batteries: min. 8 hours, continuous use Alkaline batteries: min. 8 hours, continuous use
Recharging time	~5 hours for a 2400 mAh NiMH battery
Enclosure dimensions	3.0" H x 1.47" W x 1.2" D* (7.6 cm H x 3.7 cm W x 3.0 cm D*) *Depth includes clip. Depth without clip = 0.9", 2.3 cm
Product weight	1.2 oz (34 g) without battery 2.2 oz (62 g) with battery
Regulatory compliance.....	CE, FCC Class B, UL, c-UL
Accessibility.....	Section 508 of the Rehabilitation Act (29 U.S.C. 794d)

VLH 302 Handheld Microphone

User controls	Power, volume, and link
Audio input	
Number/signal type	1 mono, via integrated MEMS microphones 1 stereo, unbalanced, via auxiliary line level input jack
Connectors	(1) 3.5 mm mini audio jack (tip = left channel audio, ring= right channel audio, sleeve = GND)
Batteries	
Number/type	1 AA size NiMH or alkaline battery
Operating life	Rechargeable 2400 mAh NiMH batteries: min. 8 hours, continuous use Alkaline batteries: min. 8 hours, continuous use
Recharging time	~5 hours for a 2400 mAh NiMH battery
Enclosure dimensions	8.0" H x 1.8" (max) diameter (20.2 cm H x 4.6 cm [max] diameter)
Product weight	4.0 oz (113 g) without battery 5.0 oz (142 g) with battery
Regulatory compliance.....	CE, FCC Class B, UL, c-UL
Accessibility.....	Section 508 of the Rehabilitation Act (29 U.S.C. 794d)

Specifications • VoiceLift Pro System Kit (Continued)

VLR 302 Receiver

User controls	2 normally open relays 1 RS-232 port (38400 baud, 8 data bits, 1 stop bit, no parity) via RJ-45 1 USB
Mounting	Rack, ceiling, or wall mountable
Power input requirements	12 VDC, 0.2 A
Enclosure dimensions	1.66" H* x 2.15" W x 4.50" D (4.2 cm H x 5.5 cm W x 11.4 cm D)
	*Height is measured out from the mounting surface.
Product weight	0.25 lbs (0.11 kg)
Regulatory compliance.....	CE, FCC Class B, UL, c-UL

VLC 302 Charging Station

External power supply.....	110 VAC to 130 VAC, 50-60 Hz, external; to 5 VDC, 2.6 A, regulated USB Micro B
Power input requirements	5 VDC, 0.5 A
Enclosure dimensions	1.5" H x 4.4" W x 3.4" D (3.9 cm H x 11.3 cm W x 8.6 cm D)
Product weight	0.66 lbs (0.3 kg)
Regulatory compliance.....	CE, UL, c-UL
Environmental.....	Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified power supply, efficiency level VI).

PVCA 452

Software and control options

Configuration Software.....	Extron Global Configurator® Plus and Professional for Windows®
Control Options.....	Extron Control for iPad, Android, and web TouchLink® Pro touchpanels, Network Button Panels

Audio System

Volume control range	0 dB to -61 dB
Crosstalk	<-85 dB @ 1 kHz
Stereo channel separation.....	>80 dB @ 1 kHz

Audio input VoiceLift receiver

Number/signal type.....	1 mono, balanced (mic)
Connectors	1 female RJ-45
Impedance.....	>10k ohms unbalanced/balanced, DC coupled
Nominal level.....	-10 dBV (316 mVrms)
Input gain/volume adjustment	-18 dB to +12 dB (default = 0 dB), adjustable independently from all other audio gain and volume controls via PCS

Audio input – Line

Number/signal type.....	1 stereo, unbalanced or balanced
Connectors	1 female 3.5 mm captive screw connector, 5 pole
Impedance.....	>10k ohms unbalanced/balanced, DC coupled
Nominal level.....	-10 dBV (316 mVrms)
Input gain/volume adjustment	-18 dB to +24 dB (default = 0 dB), adjustable independently from all other audio gain and volume controls via PCS

Audio input – Aux

Number/signal type.....	1 mono, unbalanced or balanced
Connectors	1 female 3.5 mm captive screw connector, 3 pole
Impedance.....	>10k ohms unbalanced/balanced, DC coupled
Nominal level.....	-10 dBV (316 mVrms)
Input gain/volume adjustment	-18 dB to +12 dB (default = 0 dB), adjustable independently from all other audio gain and volume controls via PCS

Audio input – Digital

Number/signal type.....	1 S/PDIF (optical) 1 HDMI ARC
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Specifications • VoiceLift Pro System Kit (Continued)

Connectors	1 female TOSLINK fiber optic connector 1 female HDMI
Source formats	PCM 32 kHz, 44.1 kHz, 48 kHz, 96 kHz and 192 kHz sample rates, up to 24-bit.
Listening modes	Stereo
Input gain/volume adjustment	-18 dB to +12 dB (default = 0 dB), adjustable independently from all other audio gain and volume controls via PCS

Audio output – line level

Number/signal type	1 stereo/mono, balanced/unbalanced, fixed/variable
Connector	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.8 dB channel to channel
Maximum level	+15 dBu, balanced, at <0.1% THD+N

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

Audio output – power amplifier

Number/signal type	1 stereo/dual mono
Connector	(1) 5.0 mm captive screw connector, 4 pole
Load impedance	4/8 ohms, single channel or stereo
Amplifier type	Class D
Frequency response	20 Hz to 20 kHz, +1 dB/-3dB @ 1 watt output, 8 ohm load
THD + Noise	0.1%, 1 kHz, 3 dB below clipping
S/N	>90 dB, 20 Hz to 20 kHz at maximum output (unweighted), 8 ohms
Output power	25 watts per channel, 4/8 ohms, 1kHz, 1% THD
Damping factor	>75 @ 8 ohm

Communication – configuration port

USB control port	1 front panel female USB type-C
USB standard	USB 2.0, high speed
Paging sensor connector	(1) 3.5 mm captive screw connector, 3 pole

Serial control

Quantity/type	1 bidirectional RS-232
Connector	(1) 3.5 mm direct insertion captive screw connector, 3 pole
Baud rate and protocol	300 to 115200 baud (9600 baud = default); 8 data bits; 1 (default) or 2 stop bits; no parity (default), even, or odd parity
Pin configurations	
Serial, 3 pole captive screw	
RS-232 (default)	Pin 1 = Tx, 2 = Rx, 3 = Gnd

IR/serial control

Quantity/type	1 programmable: unidirectional RS-232 (± 5 V), or TTL level (0 to 5 V) infrared (carrier and non-carrier) up to 300 kHz
Connector	(1) 3.5 mm direct insertion captive screw connector, 2-pole
Baud rate and protocol	300 to 115200 baud (9600 baud = default); 8 data bits; 1 (default) or 2 stop bits; no parity (default), even, odd, mark, or space parity
Pin configurations	For each port, pin 1 = signal, 2 = Gnd
IR output carrier frequency	30 kHz to 300 kHz

Digital input/outputs

Quantity/type	2 digital inputs (configurable) referenced to ground
Connector	(1) 3.5 mm captive screw connector, 3 pole
Digital inputs	
Input voltage range	0 to 24 VDC, clamped at +30 VDC
Input impedance	>10k ohms
Programmable pullup	1k ohms to +5 VDC
Threshold low to high	>2.8 VDC
Threshold high to low	<2.0 VDC

Specifications • VoiceLift Pro System Kit (Continued)

Digital outputs..... 250 mA sink from 24 VDC max.

eBUS control

eBUS control ports (1) 3.5 mm captive screw connector, 4 pole

eBUS pin configuration +V = +12 VDC; +S = + signal; -S = - signal; G = ground

Recommended cable type Extron STP20-2/1000 or STP20-2P/1000 cable

Maximum system cable length 1000 feet (305 meters) sum total for the eBUS system, regardless of topology.
Power injection may be required depending on system cabling topology and primary power supply wattage. See the PVCA 452 User Guide for details.

eBUS power output 3 watts

Ethernet control

Network interface controllers

(NICs)..... 1

Connector..... 1 female RJ-45 connector

Data rate..... 10/100/1000Base-T, half/full duplex with autodetect

Protocols DHCP, DNS, HTTP, HTTPS, ICMP, NTP, SFTP, SMTP, SNMP, SSH, TCP/IP, UDP/IP

Default settings Link speed and duplex level = autodetected

IP address = 192.168.254.250

Subnet mask = 255.255.255.0

Gateway = 0.0.0.0

DHCP = off

DNS: 127.0.0.1

General

Power supply External

Power input requirements Input: 100-240 VAC, 50-60 Hz

Output: 12 VDC, 4.2 A, 50 watts

Power consumption

Device 18.16 watts

Device and power supply 20.55 watts

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

Thermal dissipation

Device 18.86 BTU/hr

Device and power supply 27.01 BTU/hr

Mounting

Furniture mount Yes, with optional ZipClip mounting kit

Wall mount Yes, with optional wall mounting kit

Ceiling mount Yes, with optional ceiling mount kit

Enclosure type Metal

Enclosure dimensions 1.00" H x 13.1" W x 3.5" D
(2.5 cm H x 33.3 cm W x 8.9 cm D)
(Depth excludes connectors)

Product weight 1.20 lbs (0.5 kg)

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

Regulatory compliance

Safety CE, c-UL, UL

UL Listed for use in plenum air handling spaces: meets UL 2043 for heat and smoke release

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

Complies with the appropriate requirements of RoHS, WEEE

FF 120 Flat Field® Speakers

Power capacity 16 W (rms) continuous pink noise

32 W (rms) continuous program

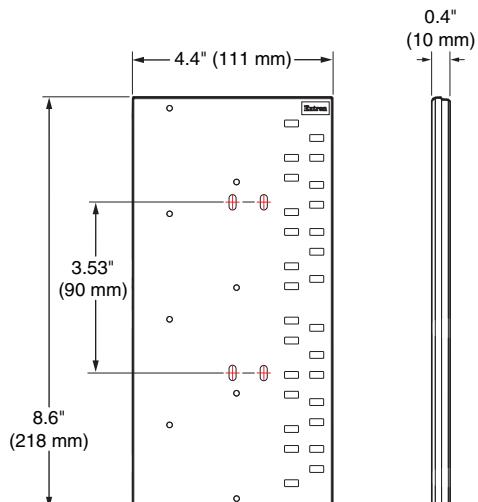
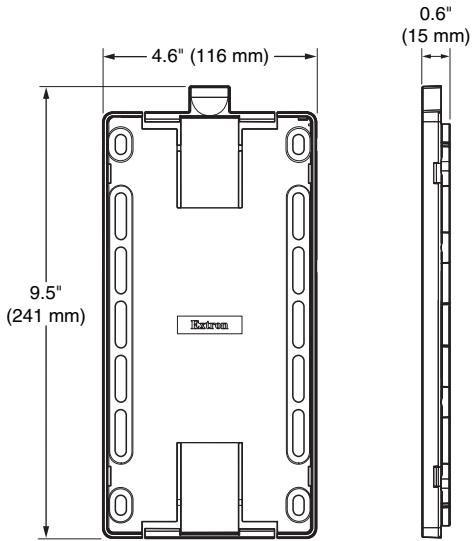
Nominal coverage angle..... 170° conical coverage

Specifications • VoiceLift Pro System Kit (Continued)

Nominal impedance	8 ohms per speaker
Mounting	Drops into a 2' x 2' (610 mm x 610 mm) or 2' x 4' (610 mm x 1220 mm) suspended tile
Enclosure outer dimensions	3.25" H x 23.75" W x 11.75" D (83 mm H x 603 mm W x 299 mm D)
Product weight	Single: 4.7 lbs (2.1 kg)
Regulatory compliance	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.

ZipClip 400 and ZipCaddy 400 (VLS 3001, VLS 3002 and VLS 3002H) Mounting

Rack rail mount	Yes, with required hardware
Furniture mount	Yes, with included hardware
Enclosure dimensions	
ZipClip 400	9.5" H x 4.6" W x 0.6" D (241 mm H x 116 mm W x 15 mm D)
ZipCaddy 400	8.6" H x 4.4" W x 0.4" D (218 mm H x 111 mm W x 10 mm D)



Specifications • VoiceLift Pro System Kit (Continued)

Load bearing

Vertical mounting	9.5 lbs (4.3 kg)
Horizontal mounting	5.0 lbs (2.27 kg)

NOTE: Supports eighth-rack, quarter-rack, and half-rack width products.

Enclosure material	High impact plastic
Product weight	0.3 lbs (0.1 kg) per each clip and plate pair 2.8 lbs (1.3 kg) per 10-pack

WMK 160 Wall Mount Kit (VLS 3001W, VLS 3002W, VLS 3002HW)

Mounting

Wall mount	Yes, with included hardware
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Maximum load capacity	15.0 lbs (6.8 kg)
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Material.....	Steel base plate, aluminum cover
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Dimensions

Base plate	17.1" H x 16.4" W x 1.5" D (43.5 cm H x 41.6 cm W x 3.8 cm D)
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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)
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Product weight	5.5 lbs (2.5 kg)
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Vibration	ISTA 1A in carton (International Safe Transit Association)
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Regulatory compliance.....	c-UL, UL, OSHPD anchorage pre-approval
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PVM 220 (VLS 3001P, VLS 3002P and VLS 3002HP)

Mounting	Drop ceiling mountable (installs on drop ceiling within air-handling space)
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Maximum load capacity	15 lbs (6.8 kg) on door
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Enclosure material.....	Composite
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Door frame and mounting plate	Aluminum
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Dimensions	6.3" H x 23.8" W x 23.8" D (160 mm H x 605 mm W x 605 mm D)
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Product weight	16.0 lbs (7.3 kg)
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Regulatory compliance.....	CE, c-UL, UL as an accessory for use with a UL listed mount and projector.
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UL listed for use in plenum airspaces: meets UL 2043 for heat and smoke release.
OSHPD anchorage pre-approval.

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.