

AUDIO CONFERENCING

CONVERGE® Pro 2 120



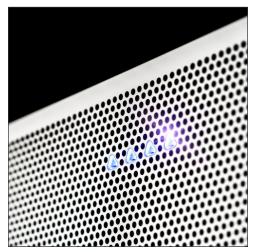
CONVERGE Pro 2 is the industry's most advanced professional audio DSP platform for conferencing and sound reinforcement applications. It outperforms in any size room, audio environment, and application.

- > NEW Built-in Native Camera Tracking for ClearOne Unite cameras and many 3rd party cameras using RS-232 and Ethernet VISCA over IP.
- > 12 mic/line inputs with AEC.
- > Increased Mic/Line outputs for other CP2 units.
- > Inputs-only DSP mixer.
- > Built-in USB for PC-based conferencing.
- > Configure and manage entire system with New CONSOLE® software, Auto-discovery of devices, MatrixViewTM for entire system, FlowViewTM for visualized audio signal paths and System monitoring and troubleshooting.
- > DARE[™] feedback elimination.
- > Standalone and daisy-chained system.
- > Expansion bus "C-Link" with 150 channels.
- > Stack up units up to 144 Mic/Line inputs.
- > Distributed Echo Cancellation® on every mic input.
- > Next-gen Acoustic Echo Cancellation processing
- > "P-Link" bus to connect peripheral devices
- > Flexible control options include Touch-Panel Controller with tabletop and wall mount options, Dialer app for Windows, Mac, iOS, Android, and 3rd party control modules.
- > Reduced footprint and power consumption.
- > Acoustic Intelligence with faster convergence.
- > Advanced microphone gating.
- > Noise Cancellation with Adaptive-Ambience.

It's All About the Architecture!"



Everything you need: The 120 model mixer has 12 inputs with AEC, USB audio; GPIO, RS-232, IP control interfaces; and P-Link and C-Link expansion buses.



Easy Integration

Daisy-chain the CONVERGE Pro 2 with the BMA 360, DIALOG[®] 20 2-Channel Wireless Microphone System, and other peripheral devices through P-Link.

APPLICATIONS

- PC-based Conferencing
- Unified Communications
- Sound Reinforcement
- Video codec-based
- Courtrooms Conferencing
 - Telemedicine theaters Auditoriums
 - Board rooms
 - Huddle rooms

WORKSPACES

Training rooms

Lecture halls

Conference rooms



DSP MIXERS

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PART NUMBER	• 910-3200-004
NEW - CAMERA TRACKING	 Supported Cameras: Unite 150, Unite 200, Unite 160, Unite 260 (One Camera per DSP) Communication Protocol: VISCA Communication options: Serial (RS-232) or Ethernet (VISCA over IP)
MIC/LINE INPUTS & OUTPUTS	 Inputs: Balanced audio inputs, 3.81 mm Orange color Phoenix/Euroblock type male header, Push-on miniterminal block Frequency Response: 20 Hz – 22 kHz @ +4 dBu, +/- 0.5 dBu EIN (Equivalent Input Noise): 20 kHz BW, max gain, Rs = 150 Ω, -126 dBu THD + N (Total Harmonic Distortion + Noise): 20 Hz – 22 kHz @ +4 dBu, line level, 0.006% 20 Hz – 22 kHz @ -56 dBu, mic level, < 0.04% Dynamic Range: 20 Hz – 20 kHz @ 0 dB, >105 dB Crosstalk (Mic/Line): Channel to Channel, stimulus at 20 dBu to receptor at -56 dBu, 1 kHz, < -98 dB Input Impedance: Balanced (line to ground), 2.2 kΩ, 1% Nominal Input Level: Adjustable -56 dB to 0 dB, 7 dB step coarse gain Maximum Input Level: -65 dBu to 20 dBu Phantom Power: 48 V, Impedance 6.81 kΩ
USB AUDIO	 Port Type: USB-B connector Audio: Digital Audio, 2 x 2 bidirectional channels Sample Rate: 48 kHz Sample Bit Depth: 24-Bit Compatible: USB 2.0, USB 3.0
ETHERNET	 Port Type: RJ-45, 10/100 Mbps Ethernet Network, Auto Negotiation IP address: IPv4 (IPv6 upgradeable through future s/w, f/w upgrade)
C-LINK EXPANSION BUS	 Ports Type: RJ-45 (Cat 5e or Cat 6) C-Link In & Out: Proprietary Expansion Bus Audio: 150 Expansion channels Cable: Solid core, factory terminated Cat 5e or 6 cable Distance: Up to 80' (24 M)
P-LINK PERIPHERAL BUS	 Ports Type: RJ-45 (Cat 5e or Cat 6) P-Link In & Out: Proprietary Peripheral Bus PoE In: P-Link In Port PoE 802.3 af Mode B, Midspan Power on "spare pairs" 4, 5 and 7, 8 Input voltage range: 48 V to 56 V Audio: Up to 3 Beamforming Microphone Array 2 units + up to 3 DIALOG 20 Wireless Receiver units + Up to 3 USB Expander units + Up to 3 GPIO Expander units Cable: Solid core, factory terminated Cat 5e or 6 cable Distance: Up to 200' (60 M)
RS-232	 Port Type: DB9 Female Settings: 9600/19200/38400/57600/115200 Baud; Serial Echo; Flow Control Support: Serial commands



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GPIO	 Port Type: 5.08 mm Green color Phoenix/Euroblock type male header Support: Control, Status, Variable Voltage Control Power Pin: 5 VDC @ 350 mA Power Source Pin 1 to 4: Open Collector Outputs: 40 VDC @ 250 mA Active Outputs (Source/Sink): 5 VDC @ 25 mA Logic Inputs: 40.2 kΩ pull up Variable Voltage Control Inputs: 5 VDC max Ground Pin: GND
USB CONTROL	 Port Type: USB-B connector Location: Front Panel Compatible: USB 2.0, USB 3.0
LEDs	 Location: Front Panel Status LED: Off: Unit still initializing Blue - Fast Blinking: Stack Syncing in progress Blue - Slow Blinking: Unit not configured Blue - Solid: Configured unit Red - Fast Blinking: Stack Sync error Locate LED: Blue - Blinking: Unit "Locate" command received Power LED: Blue - Solid: Unit is powered on
TOUCH SENSOR	Sensor Type: Capacitive Touch ButtonLocation: Front Panel
POWER & THERMAL	 Port Type: AC Inlet Mains Voltage: 100-240 VAC, 50/60 Hz Power Consumption: 50 Watts Typical Thermal: 170 BTU/Hr Typical Operating Temperature: 14 °F (-10 °C) to 104 °F (40 °C) Ambient Temperature
DIMENSION & WEIGHT	 RU size: 1 RU Width x Depth x Height: Without rack-ears: 17 x 10.7 x 1.7 " (431 x 273 x 44 mm) With rack-ears: 19 x 10.7 x 1.7 " (483 x 273 x 44 mm)) Unit Weight: 9.3 lbs (4.2 Kg) (Approximately) Shipping Weight: 13.8 lbs (6.3 Kg) (Approximately)





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• Power Cord: 6' (1.8 M), Grounded, Qty 1

- Input Connectors: Terminal Block Connector, 4 Position (Orange), Qty 12
- Output Connectors: Terminal Block Connector, 3 Position (Black), Qty 8
 - GPIO Connector: Terminal Block Connector, 6 Position (Green), Qty 1
- C-Link Cable: RJ-45 To RJ-45 Cable, 18" (45.7 cm), Qty 1
- USB Cable: USB Type A to Type B, 6 ' (1.8 M), Qty 1
- Rack Ears: Pre-installed, Qty 2
- Screw/Washer Kit: Rack Decor, Qty 4

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