

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.

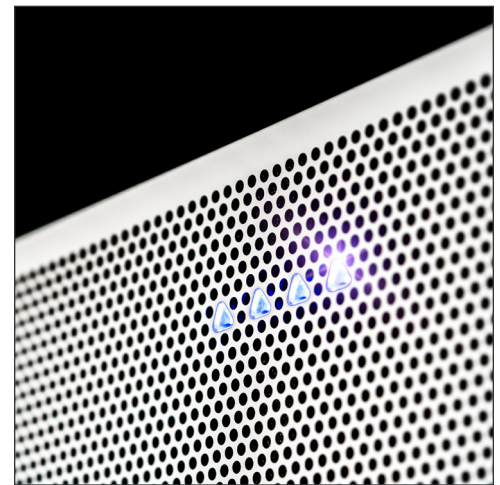
- > Built-in Native Camera Tracking for ClearOne Unite cameras and many 3rd party cameras using RS-232 and Ethernet VISCA over IP.
- > 12 mic/line inputs with AEC.
- > Increased Mic/Line outputs for other CP2 units.
- > Inputs-only DSP mixer.
- > Built-in USB for PC-based conferencing.
- > Configure and manage entire system with New CONSOLE® software, Auto-discovery of devices, MatrixView™ for entire system, FlowView™ 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 USB 2-Channel Wireless Microphone System, and other peripheral devices through P-Link.

APPLICATIONS

- PC-based Conferencing
- Unified Communications
- Sound Reinforcement
- Video codec-based Conferencing

WORKSPACES

- Conference rooms
- Training rooms
- Lecture halls
- Courtrooms
- Telemedicine theaters
- Auditoriums
- Board rooms
- Huddle rooms

CONVERGE® Pro 2 120

- PART NUMBER** • 910-3200-004
- 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, $R_s = 150 \Omega$, -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 k Ω , 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 k Ω
- 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 USB 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 Button
• Location: 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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- PACKAGE**
- 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

SALES AND INQUIRIES

Headquarters

5225 Wiley Post Way
Suite 500
Salt Lake City, UT 84116

US & Canada

Tel: +1.801.975.7200

International

Tel: +1.801.975.7200

Sales

Tel: +1.801.975.7200
sales@clearone.com

Tech Support

Tel: +1.801.974.3760
audiotechsupport@clearone.com