

## CONVERGE® Pro 2 012



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.

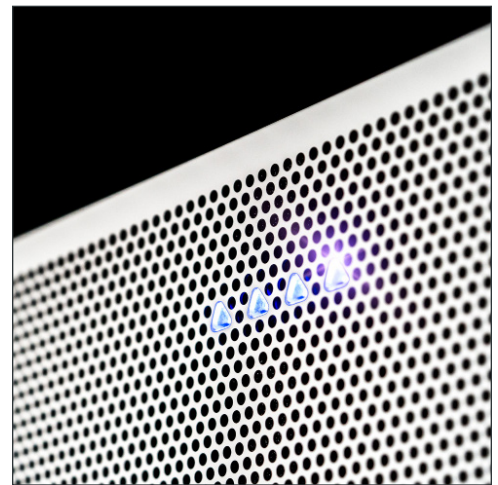
- > Built-in Native Camera Tracking for ClearOne Unite cameras and many 3rd party cameras using RS-232 and Ethernet VISCA over IP.
- > 12 mic/line outputs.
- > Increased Mic/Line outputs for other CP2 units.
- > Outputs-only DSP mixer.
- > Built-in USB for PC-based conferencing.
- > Configure and manage 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.
- > "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 for better audio.

*It's All About the Architecture!®*



### Everything you need

The 012 model mixer has 12 outputs, 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 Conferencing

### WORKSPACES

- Conference rooms
- Training rooms
- Lecture halls
- Courtrooms
- Telemedicine theaters
- Houses of Worship

# CONVERGE<sup>®</sup> Pro 2 012

- PART NUMBER** ..... • 910-3200-007
- 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** ..... • Outputs: Balanced audio outputs, 3.81 mm Black color Phoenix/Euroblock type male header, Push-on mini-terminal block  
• Frequency Response: 20 Hz – 22 kHz @ +4 dBu, +/- 0.5 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  
• Output Impedance: Balanced (line to ground), 95 Ω, 1 %  
• Output Level: 0 dBu (Nominal), 20 dBu (Max), -40 dBu (Selectable)
- 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 DIALOG 20 Wireless Receiver 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

# CONVERGE<sup>®</sup> Pro 2 012

- 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
- 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)

# CONVERGE® Pro 2 012

- PACKAGE** .....
- Power Cord: 6' (1.8 m), Grounded, Qty 1
  - Output Connectors: Terminal Block Connector, 3 Position (Black), Qty 12
  - 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