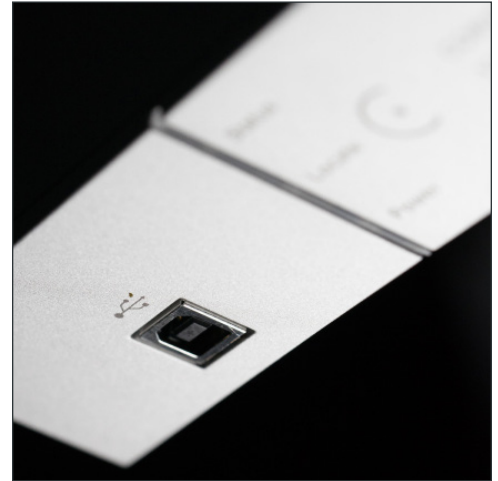


CONVERGE® Pro 2 128VTD



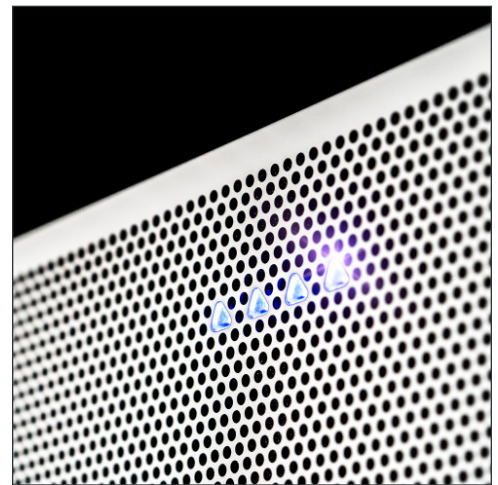
An advanced multi-channel microphone automixer with built-in support for Dante audio networking, VoIP conferencing, a Telco interface, and the latest audio DSP algorithms.

- > **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 and 8 mic/line outputs.
- > Support for SIP-based conferencing up to 5 lines and 5 calls based on line configuration.
- > 16 Dante inputs and 16 Dante outputs for audio networking.
- > Analog Telco interface.
- > Built-in USB audio.
- > Built-in DARE™ algorithm for dynamic feedback elimination.
- > Native Audio based VISCA camera control.
- > C-Link and P-Link enable easy addition of DSPs and peripherals.
- > Configure an entire system of C-linked DSPs with CONVERGE CONSOLE® AI software.
- > Flexible control options include Touch-Panel Controller, BYOD dialer apps or 3rd party control modules.
- > Reduced foot-print and power consumption.



Everything you need

Supports SIP, Dante®, 12 configurable mic/line audio inputs, 8 configurable mic/line audio outputs, built-in USB audio, and a Telco interface for POTS calls.



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

- VoIP Conferencing
- POTS Conferencing
- Audio Recording
- Pre-recorded Digital Audio
- Audio Networking over a LAN
- Web Conferencing
- UC Audio Conferencing
- Sound Reinforcement
- Bridge Web Conferences

WORKSPACES

- Conference Rooms
- Training Rooms
- Lecture Halls
- Courtrooms
- Telemedicine Theaters
- Houses of Worship

It's All About the Architecture!®

CONVERGE® Pro 2 128VTD

PART NUMBER	• 910-3200-009-D
NEW - CAMERA TRACKING.....	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Inputs: Balanced audio inputs, 3.81 mm Orange color Phoenix/Euroblock type male header, Push-on miniterminal block• 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• EIN (Equivalent Input Noise): 20 kHz BW, max gain, Rs = 150 Ω, -126 dBu• THD + N (Total Harmonic Distortion + Noise):<ul style="list-style-type: none">- 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• Output Impedance: Balanced (line to ground), 95 Ω, 1 %• Output Level: 0 dBu (Nominal), 20 dBu (Max), -40 dBu (Selectable)
USB AUDIO	<ul style="list-style-type: none">• 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
TELEPHONE	<ul style="list-style-type: none">• Port Type: RJ-11• Frequency Response:<ul style="list-style-type: none">• Mic/Line Input to Telephone Out: 250 Hz – 3.4 kHz, +/- 2 dB, 4 dBu• Telephone In to Mic/Line Out: 250 Hz – 3.4 kHz, +/- 2 dB, -15 dBu• THD + N:<ul style="list-style-type: none">- Mic/Line Input to Telephone Out: < 0.1 % @ 4 dBu- Telephone In to Mic/Line Out: < 0.3 % @ -15 dBu• Dynamic Range:<ul style="list-style-type: none">- Mic/Line Input to Telephone Out: > 67 dBu- Telephone In to Mic/Line Out: > 87 dBu- REN: Ringer Equivalent Number 0.2• Transhybrid Balance: 30 dB (1 kHz, all AC terminations)
VOIP	<ul style="list-style-type: none">• Port Type: RJ-45, 10/100 Mbps Ethernet Network, Auto Negotiation• Audio: 5 Lines• Codec: G.711 uLaw, G.711 ALaw, G.722
ETHERNET	<ul style="list-style-type: none">• Port Type: RJ-45, 10/100 Mbps Ethernet Network, Auto Negotiation• IP address: IPv4 (IPv6 upgradeable through future s/w, f/w upgrade)

CONVERGE® Pro 2 128VTD

DANTE™ and AES67 AUDIO	<ul style="list-style-type: none">• Port Type: RJ-45 Gigabit Ethernet connectors for Primary and Secondary Ports• Audio: Digital Audio, 16 x 16 bidirectional channels• Sample Rate: 48 kHz / 96 kHz• Sample Bit Depth: 24-Bit• AES67 Mode: Enabled through Dante controller software
C-LINK EXPANSION BUS	<ul style="list-style-type: none">• Ports Type: RJ-45 (Cat 5e or Cat 6)• C-Link In & Out: Proprietary Expansion Bus• Audio: 64 Expansion channels• Cable: Solid core, factory terminated Cat 5e or 6 cable• Distance: Up to 150 ft (45 m)
P-LINK PERIPHERAL BUS	<ul style="list-style-type: none">• Ports Type: RJ-45 (Cat 5e or Cat 6)• P-Link Out: Proprietary Peripheral Bus• PoE In:<ul style="list-style-type: none">- 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 BMA CT 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 ft (60 m)
RS-232	<ul style="list-style-type: none">• Port Type: DB9 Female• Settings: 9600/19200/38400/57600/115200 Baud;• Serial Echo; Flow Control• Support: Serial commands or VISCA camera control
GPIO	<ul style="list-style-type: none">• 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:<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">• Port Type: USB-B connector• Location: Front Panel• Compatible: USB 2.0, USB 3.0
LEDs	<ul style="list-style-type: none">• Location: Front Panel• Status LED:<ul style="list-style-type: none">- 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

CONVERGE® Pro 2 128VTD

LOCATE BUTTON	<ul style="list-style-type: none">• Sensor Type: Capacitive Touch Button• Location: Front Panel
POWER & THERMAL	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• RU size: 1 RU• Width x Depth x Height:<ul style="list-style-type: none">- 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)
PACKAGE	<ul style="list-style-type: none">• Power Cord: 6 ft (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 in (45.7 cm), Qty 1• VoIP Cable: RJ-45 To RJ-45, 7 ' (2 m), 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