ClearOne
You're Virtually There™

The CONVERGE® Pro 2 120 is an advanced multi-channel microphone auto mixer with the latest audio DSP algorithms, from ClearOne. This mixer adds Twelve (12) configurable mic/line audio inputs and built-in USB audio in an installation, and adds a powerful Digital Signal Processor.

Image shown above is for illustrative purposes only; actual product appearance may vary.

ClearOne 910-3200-004 Includes:

- (1) 6' Grounded Power Cord
- (12) Orange 3 Position Terminal Block Input Connectors
- (1) Green 6 Position Terminal Block GPIO Connector
- (1) 18" RJ-45 To RJ-45 C-Link Cable
- (1) 6' USB Type A to Type B Cable
- (2) Pre-installed Rack Ears
- Rack Decor Screw/Washer Kit

ClearOne 910-3200-004 Features:

- 12 mic/line inputs
- USB audio
- C-Link and P-Link enable addition of DSPs and peripherals
- Flexible control options include Touch Panel Controller, BYOD dialer apps or 3rd party control modules
- Configure an entire system of C-linked DSPs with CONSOLE AI software
- Built-in DARE™ algorithm for dynamic feedback elimination
- Connect via C-link to VoIP and Telco enabled DSPs for conferencing
- Reduced foot-print and power consumption

ClearOne 910-3200-004 Specifications:

- MIC/LINE INPUTS

  - Inputs:

    - Balanced audio inputs
    - 3.81mm Orange color Phoenix/Euroblock type male header
    - Push-on mini-terminal block

  - Frequency Response: 20Hz – 22kHz @ +4dBu, +/- 0.5dBu
  - EIN (Equivalent Input Noise): 20kHz BW, max gain, Rs = 150Ω, -126dBu
  - THD + N (Total Harmonic Distortion + Noise):

    - 20Hz – 22kHz @ +4dBu, line level, 0.006%
    - 20Hz – 22kHz @ -56dBu, mic level, < 0.04%

  - Dynamic Range: 20Hz – 20kHz @ 0dB, > 105dB
  - Crosstalk (Mic/Line): Channel to Channel, stimulus at 20dBu to receptor at -56dBu, 1kHz, < -98dB
  - Input Impedance: Balanced (line to ground), 2.2kΩ, 1%

- Maximum Input Level: -65dBu to 20dBu
- Phantom Power: 48V, Impedance 6.81kΩ

- USB AUDIO

  - Port Type: USB-B connector
  - Audio: Digital Audio, 2 x 2 bidirectional channels
  - Compatible:

    - USB 2.0
    - USB 3.0

  - Sample Rate: 48kHz
  - Sample Bit Depth: 24-Bit

- ETHERNET

  - Port Type: RJ-45, 10/100Mbps Ethernet Network, Auto Negotiation
  - IP address: IPv4 (IPv6 upgradeable through future s/w, f/w upgrade)

- C-LINK EXPANSION BUS

  - Ports Type: RJ-45 (Cat5e or Cat6)
  - 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' (45M)

- P-LINK PERIPHERAL BUS

  - Ports Type: RJ-45 (Cat5e or Cat6)
  - P-Link In & Out: Proprietary Peripheral Bus
  - PoE In:

    - P-Link In Port
    - PoE 802.3af Mode B, Midspan
    - Power on "spare pairs" 4,5 and 7,8

  - Input voltage range: 48V to 56V
  - 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' (60M)
  - Long Distance P-Link:
  - Increases P-Link distance from 200 Ft to 650 Ft
  - 650 Ft (200M) maximum cable distance between any two units
  - Cat6, 550 MHz, 23 AWG, solid conductor cable
  - Do not use Copper Clad Aluminum (CCA) cable
  - Available only for BFM2 peripheral units
  - 48V PoE Midspan Mode B power injector for 1 BFM2 unit

- 56V PoE Midspan Mode B power injector for 3 BFM2 units

- RS232

  - Port Type: DB9 Female
  - Settings: 9600/19200/38400/57600/115200 Baud; Serial Echo; Flow Control
  - Support: Serial commands

- GPIO

  - Port Type: 5.08mm Green color Phoenix/Euroblock type male header
  - Support: Control, Status, Variable Voltage Control
  - Power Pin: 5V DC @ 350mA Power Source
  - Pin 1 to 4:

    - Open Collector Outputs: 40VDC @ 250mA
    - Active Outputs (Source/Sink): 5VDC @25mA
    - Logic Inputs: 40.2kΩ pull up
    - Variable Voltage Control Inputs: 5VDC max

  - Ground Pin: GND

- USB CONTROL

  - Port Type: USB-B connector
  - Compatible:

    - USB 2.0
    - USB 3.0

  - Location: Front Panel

- 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: 100-240V AC, 50/60Hz
- Power Consumption: 50 Watts Typical
- Thermal: 170 BTU/Hr Typical
- Ambient Operating Temperature: 14°F to 104°F (-10°C to 40°C)

- DIMENSION & WEIGHT

  - RU size: 1 RU
  - Dimensions (WxDxH):

    - Without rack-ears: 17" x 10.73" x 1.72" (43.2 x 27.3 x 4.4 cm)
    - With rack-ears: 19" x 10.73" x 1.72" (48.3 x 27.3 x 4.4 cm)

  - Unit Weight (Approx.): 9.3 lbs (4.2 kg)
  - Shipping Weight (Approx.): 13.8 lbs (6.3 kg)