

NEW!

# CONVERGE™ PRO | 880

## Professional Conferencing System

The successor to the industry-leading XAP 800. As the flagship product in ClearOne's next-generation Converge / Converge Pro professional audio conferencing line, the 880 is a complete solution that delivers rich functionality with improved audio performance, enhanced management, and simplified configuration for audio conferencing and sound reinforcement applications.

**ClearOne**



THE CLEAR  
CHOICE FOR  
PROFESSIONAL  
AUDIO  
CONFERRING

### CONVERGE™ PRO 880 APPLICATIONS

- Conference Rooms
- Boardrooms
- Courtrooms
- Distance Learning Facilities
- Convention Centers and Hotels
- Training Rooms
- Telemedicine Facilities
- Houses of Worship

### CONVERGE™ PRO 880 ADVANTAGES

#### Advanced Conferencing Feature Set

- + Next-generation Acoustical Echo Cancellation
  - > Full bandwidth (20Hz to 22Khz) echo cancellation
  - > Improved duplex performance
  - > Push-to-talk microphone compatibility
- + Next-generation Noise Cancellation
  - > Adaptive modeling to room ambient noise condition
- + Increased resolution on Microphone Preamp stage
  - > 0-56 dB in 7 dB increments
- + Pre-AEC routing for Sound Reinforcement Applications
  - > Maximum of 4 millisecond processing delay
- + Management Improvements
  - > Integrated Ethernet and USB connections
  - > SNMP and HTML remote management agents
  - > Event scheduler
  - > Diagnostic console
- + Simplified Configuration Software
  - > Drag & drop A/V and channel objects
  - > Selectable views—unit, matrix, channel
- + Expanded Serial Command List

#### Superior Audio Performance

- + Next-generation Distributed Echo Cancellation® on every mic input
- + First-mic priority delivers clear audio to the far end
- + 20 Hz-22 kHz bandwidth for full-range audio response
- + ALC & AGC keep participants' audio balanced and consistent

#### Configuration Flexibility

- + Scalable – link multiple Converge Pro units (880, 840T, 81, TH20) for extensive microphone coverage and up to 16 phone lines
- + Enhanced expansion bus, featuring 12 mix-minus audio buses for routing between units
- + Eight mic gating groups (four internal & four global) allow separation of mics into individual mixer gating groups for greater configuration flexibility
- + 32 presets can be executed on-the-fly without disturbing other ongoing preset operations
- + 255 Macros for customized audio control/configuration with single command execution

HDConference™

> CONVERGE PRO 880 BACK PANEL



> SPECIFICATIONS



**Audio Performance**

Conditions: Unless otherwise specified, all measurements are performed with a 20 Hz to 22 kHz BW limit (no weighting)  
 Frequency Response: 20 Hz to 22 kHz ±1dB  
 Noise (EIN): -126 dBu, 20 kHz BW, max gain, Rs=150 Ω  
 THD+N: <0.02%  
 Dynamic Range: 100 dB (non A-weighted)  
 Crosstalk <-91 dB re 20 dBu @ 20 kHz channel to channel

**Auto Mixer Parameters**

Number of Open Microphones (NOM)  
 PA Adaptive Mode  
 First Mic Priority Mode  
 Last Mic Mode  
 Maximum # of Mics Mode  
 Ambient Level  
 Gate Threshold Adjust  
 Off Attenuation Adjust  
 Hold Time  
 Decay Rate

**Matrix Mixing Parameters**

36x36 matrix  
 12 analog in/out  
 12 expansion bus in/out  
 8 assignable processing blocks in/out  
 4 assignable fader blocks in/out

**Assignable Processing Blocks**

Filters:  
 All pass  
 Low pass  
 High pass  
 Low shelving  
 High shelving  
 Parametric EQ  
 Notch  
 CD Horn  
 Crossovers:  
 Bessel  
 Butterworth  
 Linkwitz-Riley  
 Compressor  
 Delay; adjustable up to 250 ms

**Assignable Fader Blocks**  
 Gain/Mute

**Microphone Input Configuration**

Input Gain Adjust  
 Mic or Line Level  
 Phantom Power on/off  
 Echo Cancellation on/off  
 Noise Cancellation on/off  
 Filters:  
 All Pass  
 Low Pass  
 High Pass  
 Notch  
 PEQ  
 Mute on/off  
 Chairman Override on/off  
 AGC on/off  
 Automatic Level Control on/off  
 Auto Gate/Manual gate  
 Adaptive Ambient on/off  
 Pre AEC channel



**Mic/Line Inputs 1-8**

Push-on mini-terminal block, balanced, bridging  
 Impedance: < 5 KΩ  
 Nominal Level: adjustable -56 dBu to 0 dBu (7 dB step coarse gain adjustment)  
 Maximum Level: -65 dBu to +20 dBu  
 Echo Cancellation: 130 ms tail time (works with 12 dB of room gain)  
 Noise Cancellation: 6-15 dB attenuation  
 Phantom Power: 24 V, selectable

**Line Inputs 9-12**

Push-on mini-terminal block, balanced, bridging  
 Impedance: < 5 KΩ  
 Nominal Level: 0 dBu  
 Maximum Level: 20 dBu

**Outputs 1-12**

Push-on mini-terminal block, balanced  
 Impedance: < 50 Ω  
 Nominal Level: 0 dBu  
 Maximum Level: 20 dBu

**Expansion Bus In/Out**

Proprietary Network  
 RJ-45 (2), 1.9 Mbps  
 Category 5 twisted-pair cable, 200' maximum cable length between any two Converge Pro devices

**Ethernet**

Autoswitching with Quality of Connection (QoC)  
 10/100 Mbps Ethernet Network Port  
 10/100 Mbps Ethernet PC Port  
 RJ-45 Connectors

**RS-232**

Serial Command Protocol Only (Console software not supported on RS-232 port)  
 DB-9 female  
 9,600/19,200/38,400/57,600/115,200 baud rate; 8 bits, 1 stop bit, no parity  
 Hardware flow control on (default)/off

**USB**

Version 2.0 Compatible  
 Type: B-connector

**Control/Status Ports**

DB-25 female A/B (2)  
 Inputs A/B: active low (pull to ground)  
 Outputs A/B: open collector, 40 VDC max, 40 mA each  
 +3.3 VDC pins (2) (300 mA over-current protected)



**Configuration & Administration Software**  
 Converge™ Console

**Power Input Range**

Auto-Adjusting  
 100-240 VAC; 50/60 Hz

**Power Consumption**

30 W Typical

**Dimensions (L x D x H)**

17.25" x 10.25" x 1.75"  
 43.8 x 26 x 4.5 cm

**Weight**

7.5 lbs/3.3375 kg unit weight  
 12 lbs/5.4kg shipping weight

**Operating Temperature**

14° F/-10 °C to 122° F/50° C ambient unit temperature

**Approvals & Compliance**

AES48-2005: AES standard on interconnections — Grounding and EMC practices — Shields of connectors in audio equipment containing active circuitry (self certified)  
 U.S.A. & Canada  
 CSA safety listed  
 EU Countries  
 RoHS compliant  
 WEEE compliant  
 See product manual for additional details

**Optional Accessories**



Converge Pro 880  
 Converge Pro 880T  
 Converge Pro 840T  
 Converge Pro 8i  
 Converge Pro TH20  
 Converge SR 1212  
 Tabletop Controller  
 Button Microphone – Omni-Directional  
 Button Microphone – Uni-Directional  
 Delta Microphone  
 Tabletop Microphone – Uni-Directional  
 JBL Wall-Mount Speakers

**Part Number**

910-151-880 Converge Pro 880 – 8-channel AEC Microphone Mixer

> CLEARONE LOCATIONS

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