# CONVERGE™ PRO | 880

## Professional Conferencing System

The successor to the industry-leading XAP 800. As the flagship product in ClearOne's next-generation Converge™ Pro professional audio conferencing product line, the 880 is a complete audio system 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 CONFERENCING

### APPLICATIONS

Conference Rooms

Boardrooms

Courtrooms

Distance Learning Facilities

Convention Centers and Hotels

Training Rooms

Telemedicine Facilities

Houses of Worships

### ADVANTAGES

Advanced Conferencing Feature Set
+ Next-generation Acoustical 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 for extensive microphone coverage and up to 16 phone lines
+ Enhanced expansion bus, featuring 18 mix-minus audio buses for routing between units
+ Ten mic gating groups (four internal & six 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

Conferencing Capability
+ Link with multiple Converge Pro TH20s for up to 16-line capability
+ Also link to Converge Pro system components for more inputs and outputs

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
12 analog in/out
18 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 Pro 880TA
Converge SR 1212A
Converge SR 1212
Tabletop Controller

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

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