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.

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

**Features**
- 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

CONVERGE™ PRO | 880
CONVERGE™ PRO 880 BACK PANEL

Functional 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: ±1 dB
Noise (EIN): -126 dBu, 20 kHz BW, max gain, Rs = 150 Ω
THD+N: <0.02%

Compressor Linkwitz-Riley
Butterworth
Bessel
Crossovers:
CD Horn
Notch
Parametric EQ
High shelving
Low shelving
High pass
Low pass
All pass
Filters:
Assignable Processing Blocks
Matrix Mixing Parameters
Auto Mixer Parameters
Number of Open Microphones (NOM)
First Mic Priority Mode
Last Mic Mode
Maximum # of Mics Mode
Ambient Level
Maximum Level: 20 dBu
Nominal Level: 0 dBu
Impedance: < 50 Ω
Push-on mini-terminal block, balanced

Mic/Line Inputs 1-8
Phantom Power: 24 V selectable
Noise Cancellation: 6–15 dB attenuation (with 12 dB of room gain)
Maximum Level: -65 dBu to +20 dBu (7 dB step coarse gain adjustment)
Nominal Level: adjustable -56 dBu to 0 dBu
Impedance: < 10 KΩ bridging
Push-on mini-terminal block, balanced,
Line Inputs 9-12
Phantom Power on/off
Gain/Mute
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
Ethernet Autoswitching with Quality of Connection (QoC)
10/100 Mbps Ethernet Network Port
10/100 Mbps Ethernet PC Port
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
Power Consumption 30 W Typical

Dimensions (L x D x H)
17.25" x 10.25" x 1.75"

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

Power Input Range Auto-Adjusting
100-240 VAC, 50/60 Hz

Configuration & Administration Software
Converge™ Console

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

Approvals & Compliance
UL/CUL listed
CSA safety listed
Europese conformity (CE Marking)
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 840T A
Converge Pro TH20
Converge Pro 880TA
Converge SR 1212A
Converge SR 1212
Tabletop Controller

Assignable Fader Blocks
Gain/Mute

Mic/Line Level
Phantom Power on/off
Echo Cancellation on/off
Noise Cancellation on/off
Filters:
All Pass
Low Pass
High Pass
Notch
Input Gain Adjust
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

Line Inputs 9-12
Phantom Power: 24 V selectable

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

North America
Tel: 801-975-7200
Toll Free: 800-945-7730
Sales: 801-707-6994
Fax: 801-977-0087
sales@clearone.com

Europe & Oceania
Tel: +44 (0) 1189 038 053
global@clearone.com

Asia Pacific
Tel: +852 3590 4526
global@clearone.com

Latin America
Tel: 801-974-3621
global@clearone.com

Middle East
Tel: +971 4 3621
global@clearone.com

12 lbs/5.4kg shipping weight
30 W Typical
USB Version 2.0 Compatible
Type: B-connector

Control/Status Ports
DB-25 female A/B (2)
Inputs A/B: open collector, 40 VDC max, 40 mA each
+3.3 VDC pins (2) (300 mA over-current protected)

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

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Assignables 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

Converge™ Console

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
UL/CUL listed
CSA safety listed
Europese conformity (CE Marking)
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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Assignables 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

Line Inputs 9-12
Push-on mini-terminal block, balanced, bridging
Impedance: < 10 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

Assignables Processing Blocks
Filters:
All pass
Low pass
High pass
Low shelving
High shelving
Parameteric EQ
Notch
CD Horn
Crossovers:
Bessel
Butterworth
Linkwitz-Riley
Compressor
Decay: adjustable up to 250 ms

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
Parameteric EQ
Notch
CD Horn
Crossovers:
Bessel
Butterworth
Linkwitz-Riley
Compressor
Decay: adjustable up to 250 ms