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
### 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 ±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**
  - All Pass
  - Low Pass
  - High Pass
  - Notch
  - PEQ
  - Gain/Mute
  - Chairman Override on/off
  - AGC on/off
  - Auto Gate/Manual gate
  - Auto Gate/Manual gate
  - Pre AEC channel

#### Mic/Line Inputs 1-8
- **Push-on mini-terminal block, balanced, bridging**
- **Impedance:** 50 Ω
- **Maximum Level:** +4 dBu

#### Line Inputs 9-12
- **Push-on mini-terminal block, balanced, bridging**
- **Impedance:** 50 Ω
- **Maximum Level:** +4 dBu

#### Outputs 1-12
- **Push-on mini-terminal block, balanced, bridging**
- **Impedance:** 50 Ω
- **Maximum Level:** +4 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
- **Auto Switching 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)**
- **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

#### 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/3.375 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)**
- **USA & Canada:** CSA safety listed
- **EU Countries:** RoHS compliant
- **WEEE compliant**

#### 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**

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