ClearOne.

CONVERGE[™]PRO 880

The successor to the industry-leading XAP 800. As the flagship product in professional audio conferencing product line, the 880 is a complete audio system audio performance, enhanced management, conferencing and sound reinforcement





Applications



Conference Rooms

Boardrooms

Courtrooms

Distance Learning Facilities

Convention Centers and Hotels

Training Rooms

Telemedicine Facilities

Houses of Worships



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 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 ±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

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: < 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

Line Inputs 9-12

Push-on mini-terminal block, balanced, bridging Impedance: < 10 KΩ Nominal Level: 0 dBu Maximum Level: 20 dBu

Phantom Power: 24 V. selectable

Outputs 1-12

Push-on mini-terminal block, balanced Impedance: $< 50 \Omega$ 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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