

The Converge SR 1212 is a highly-advanced 12x12 automatic digital mixer with ClearOne's fourth-generation audio processing technologies. The Converge SR 1212 delivers enhanced management features, simplified configuration tools, and industry-leading expandability for virtually any venue or application.



Applications



- Convention Centers & Hotels
- Auditoriums
- Stadiums
- Conference Rooms
- Houses of Worship
- Theaters

Features



Advanced Conferencing Feature Set

- + 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 set

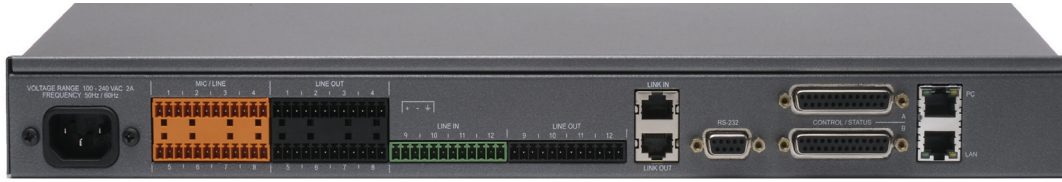
Superior Audio Performance

- + Unique automatic mixing process delivers optimum intelligibility
- + 20 Hz-22 kHz bandwidth for full-range audio response
- + ALC & AGC keep participants' audio balanced and consistent

Configuration Flexibility

- + Link multiple Converge/Converge Pro units (Converge Pro 880, 880T, 840T, 8i, TH20, and Converge SR 1212) 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

> CONVERGE SR 1212 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, 22 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 inputs/outputs
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

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

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

LINE INPUTS 9-12

Push-on mini-terminal block, balanced, bridging
Impedance: < 10 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
CAT-5 twisted-pair cable, 200' maximum cable length between units

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

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)

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

Operating Temperature

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

Approvals

See the Installation & Operation Manual for complete details
AES48-2005: AES standard on interconnections —
Grounding and EMC practices —
Shields of connectors in audio equipment containing active circuitry (self certified)

Optional Accessories

Converge Pro 880
Converge Pro 880T
Converge Pro 840T
Converge Pro 8i
Converge Pro TH20
Tabletop Controller

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