

NEW!

CONVERGE™ | SR 1212

Digital Matrix Mixer

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.



THE ULTIMATE
IN AUDIO
PROCESSING
AND DIGITAL
MATRIX MIXING

CONVERGE SR 1212 APPLICATIONS

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

CONVERGE SR 1212 ADVANTAGES

- 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



> 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 \pm 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: < 5 K Ω
 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: < 5 K Ω
 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



Part Number

910-151-900 Converge SR 1212
 12x12 Digital Matrix Mixer

> CLEARONE LOCATIONS

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