

NEW!

**CONVERGE™ | SR 1212A**

Digital Matrix Mixer with Four Channel Power Amplifier

The Converge SR 1212A is a highly advanced 12X12 automatic digital mixer with four power amplifiers. The Converge SR 1212A delivers enhanced management features, simplified configuration tools and industry-leading expandability for use in virtually any venue and application.

**ClearOne®**

THE ULTIMATE  
IN AUDIO  
PROCESSING  
AND DIGITAL  
MATRIX MIXING

**APPLICATIONS**

Boardrooms  
Training Centers  
Municipal Rooms  
Courtrooms  
Houses of Worship  
Telemedicine  
Presentation Systems  
Zoned Paging  
Masking Systems

**ADVANTAGES****Advanced 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**

- + DARE™ (Dynamic Automatic Resonance Elimination) for control of feedback
- + 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
- + Advanced Digital Processing on each amplifier channel

**Configuration Flexibility**

- + Four built-in 35 Watt amplifiers, 8Ω or 70V/100V
- + Up to 96 microphones
- + Link multiple Converge/Converge Pro units (Converge Pro 880, 880T, 880TA, 840T, 8i, TH20, Converge SR 1212 and SR 1212A) 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
- + No space required between rack mounted units

HDCConference™

> **CONVERGE PRO SR 1212A BACK PANEL**



> **SPECIFICATIONS**

**Audio Performance**

Conditions: Unless otherwise specified, all measurements are performed from 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 = 150Ω  
 THD+ Noise: <0.02%  
 Dynamic Range: >105 dB (non A weighted)  
 Crosstalk: <-91 dB re 20 dBu full band.

**Mic/Line Inputs 1-8**

Push-on mini-terminal block, balanced, bridging  
 Impedance: > 5 KΩ  
 Nominal Level: adjustable -56 dBu to 0 dBu (7dB step coarse gain adjustment)  
 Maximum Level: -65 to +20 dBu  
 Phantom Power: 24V, selectable

**Line Inputs 9-12**

Push-on mini-terminal block, balanced, bridging  
 Impedance: > 5 KΩ  
 Nominal Level: 0 dBu  
 Maximum Level: 20 dBu

**Output 1-8**

Push-on mini-terminal block, balanced, bridging  
 Impedance: < 50Ω  
 Nominal Level: 0 dBu  
 Maximum Level: 20 dBu

**Auto Mixer Parameters**

Number of Open Microphones (NOM)  
 PA Adaptive Mode  
 First Mic Priority Mode  
 Maximum # of Mics  
 Ambient Level  
 Gate Threshold Adjust  
 Off Attenuation Adjust  
 Hold Time  
 Decay Rate  
 Chairman Override  
 96 Total Microphones per site  
 6- Global Gating Groups  
 4- Internal Gating Groups

**Matrix Mixing Parameters**

8- Microphone Analog Inputs  
 4- Analog Line Inputs  
 8- Analog Line Outputs  
 4- Power Amplifier Outputs  
 18- Expansion Bus in/out  
 8- Assignable Processing Blocks in/out

**Assignable Processing Blocks**

Filters  
 All Pass  
 Low Pass  
 High Pass  
 Low shelving  
 High shelving  
 PEQ  
 Notch  
 Crossovers  
 CD Horn  
 Compressor  
 Delay: adjustable up to 250 ms

**Power Amplifier Output Processing**

FeedBack Elimination w/ring cancellation  
 10-band EQ filter  
 4-node filter bank for Crossover  
 Delay Block  
 Compressor/Limiter  
 Noise Gate for Hiss Control  
 Sound Masking Generator per channel  
 Adaptive Volume Control  
 Multi Channel Control

**Microphone Processing**

4-node filter bank  
 AGC/ALC

**Power Amplifiers**

Channels: 4  
 Amplifier Output: 4x35 Watts into 8Ω  
 Impedance: Selectable 8Ω, 70V, 100V  
 THD + Noise: <0.2% (1/3 Power)  
 Crosstalk: <-68 dB

**Expansion Bus**

Connection: CAT 5, RJ45  
 Mix Minus Structure  
 18 Audio Buses  
 6 Gating Buses  
 8 Reference Buses

10/100 Auto Switching (PC and Network Port)  
 HTTP Server  
 Telnet Client  
 SNMP Agent  
 SMTP Client  
 DNS  
 DHCP

**RS-232**

DB-9  
 9.6k – 115k baud  
 8/1/0  
 Hardware Flow Control

**USB**

Version 2.0 compatible  
 Type: B-connector

**GPIO**

DB 25 female (A/B)  
 Inputs: Active Low  
 Outputs: Open Collector, 40Vdc, 40 mA

**Power**

100-240VAC; 50/60 Hz,  
 300 Watts (maximum)  
 Idle: 139 BTU/hr  
 Full Load: 779 BTU/hr  
 Efficiency: >80%

**Humidity**

15 to 80%

**Mechanical**

Dimensions: 2RU  
 3.5" H x 17.25" W x 15.92" D  
 Weight: < 30 lbs.

**Environmental**

Operating temperature:  
 32-122 degrees F

**Compliance**

FCC  
 Industry Canada  
 CE  
 RoHS  
 Class 2 Wiring Required

**Part Number**

910-151-901 Converge SR 1212A

**Network**

> **CLEARONE LOCATIONS**

**Headquarters:**  
**Salt Lake City, UT USA**  
 5225 Wiley Post Way  
 Suite 500  
 Salt Lake City, UT 84116  
**Tel:** 801-975-7200  
 Toll Free: 800-945-7730  
**Fax:** 801-977-0087  
 sales@clearone.com

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

**EMEA**  
**Tel:** 44 (0) 1189 036 053  
 global@clearone.com

**APAC**  
**Tel:** 801-303-3388  
 global@clearone.com