

# 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  $\Omega$   
 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 $\Omega$   
 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 $\Omega$   
 Nominal Level: 0 dBu  
 Maximum Level: 20 dBu

**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  
 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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