

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

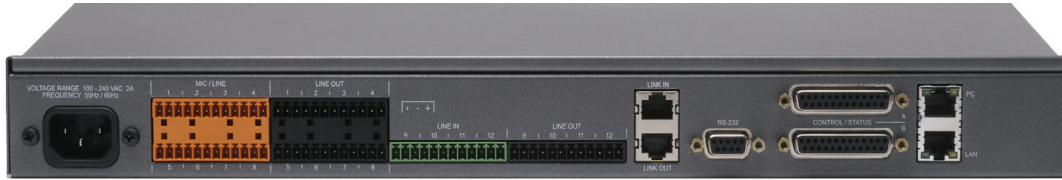
### Superior Audio Performance

- + 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/3.375 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 880T  
Converge Pro TH20  
Tabletop Controller

## ClearOne Contacts

**North America**  
Tel: 801-975-7200  
Toll Free: 800-945-7730  
Sales: 800-707-6994  
Fax: 801.303.5711  
sales@clearone.com

**Europe**  
Tel: +44.1454.616.977

**Asia Pacific**  
Tel: +86.138.23287825

**Middle East**  
Tel: +91.9930782195

**Other Regions**  
Tel: +1.801.975.7200