

PSR1212

Digital Matrix Mixer

A highly-advanced 12 x 12 digital matrix mixer featuring ClearOne's sophisticated audio processing technologies. The PSR1212 provides microphone mixing and routing, and is the ideal solution for sound reinforcement and room combining applications in a wide variety of venues.

ClearOne.



SOPHISTICATED AUDIO PROCESSING AND MIC MIXING POWER

APPLICATIONS

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

ADVANTAGES

Superior Audio Performance & Coverage

- + 12x12 matrix with level control at the cross points
- + Eight-channel automatic microphone mixer with four line inputs
- + Eight audio processing buses can be placed anywhere within the matrix mixer audio path; each bus has 15 filters
- + Eight input channels are programmable for input gain, configurable audio processing, muting and automatic mixer
- + Internal room-combining capabilities
- + Customizable microphone inputs – gate on and off as desired
- + Automatic level control

Configuration Flexibility

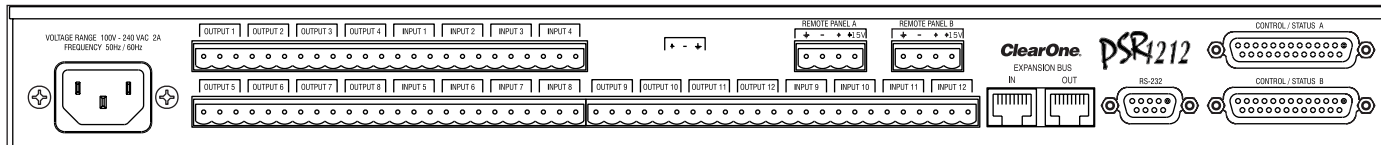
- + 32 programmable presets allow for instant configuration changes and quick adaptability to a variety of sound reinforcement and room-combining applications
- + Enables grouping of mics across four automatic mic mixers within a single PSR1212
- + Program, operate and diagnose with a connected PC or other serial remote control
- + Any combination of inputs can be routed to any combination of outputs

System Control

- + Digital audio and control bus allows up to eight PSR1212s to be connected and controlled as a single unit
- + All interconnected devices can be accessed, controlled and programmed via a single RS-232 connection
- + Basic operational functions can be controlled remotely with the optional ClearOne Select Control Panel or Volume Control Panel
- + Macro scripting language enables sophisticated control without the need for an expensive external control system

HDCConference

> PSR1212 BACK PANEL



> SPECIFICATIONS



Audio Performance

Conditions: Unless otherwise specified all measurements are performed with a 22 Hz to 22 kHz BW limit (no weighting).
 Frequency Response: 20 Hz to 20 kHz \pm 1dB
 Noise (EIN): -126 dBu, 20 kHz BW, max gain, $R_s=150 \Omega$
 THD+N: <0.02%
 SNR: 80 dB re 0 dBu, (A-weighted)
 Dynamic Range: 100 dB (A-weighted)
 Crosstalk <-91 dB re 20 dBu @ 20 kHz channel to channel

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 500ms

Matrix Mixing Parameters

- 32 x 32 matrix
- 12 analog in/out
- 12 expansion bus in/out
- 8 assignable processing blocks in/out

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

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
- Auto Gate/Manual Gate
- Adaptive Ambient on/off

Expansion Bus In/Out

- Proprietary Network
- RJ-45 (2), 115.2 kbps, 110 k Ω impedance
- Category five twisted-pair cable
- 80' (24 meters) maximum cable length between any two PSR1212s, XAP 800s or XAP 400s

RS-232

- DB-9 female
- 9,600 /19,200/38,400 (default)/57,600 baud rate; 8 bits, 1 stop, no parity
- Hardware flow control on (default)/off

Control / Status

- DB25 female A/B (2)
- Inputs A/B: active low (pull to ground)
- Outputs A/B: Open collector, 40 VDC max, 40 mA each
- +5 VDC pins (2) (300 mA over-current protected)

Remote Panels A/B

- 4-pin push-on terminal block
- RS-485 proprietary protocol
- Cat five twisted-pair cable
- 1 pair data, 1 pair power and ground
- +15 VDC (300 mA over-current protected)

Mic/Line inputs 1-8

- Push-on terminal block, balanced, bridging
- Impedance: 5 k Ω
- Nominal Level: adjustable -55 dBu, -25 dBu, 0 dBu
- Maximum Level: -35 dBu, -5 dBu, +20 dBu
- Phantom Power: 24 V, selectable

Line Inputs 9-12

- Push-on terminal block, balanced, bridging
- Impedance: >10 k Ω
- Nominal Level: 0 dBu
- Maximum Level: 20 dBu

Outputs 1-12

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

Approvals

- FCC, CSA, IC, CE, NOM, ACA, SABS, JATE

Set-up Software

- G-Ware™

Power Input Range

- Auto-adjusting
- 100-240 VAC; 50/60 Hz

Power Consumption

- 30 W typical

Operating Temperature

- 32-100° F/0-38° C

Humidity

- 15% to 80%, non-condensing

Dimensions (LxDxH)

- 17.25" x 10.25" x 1.25"
- 43.8 x 26 x 4.5 cm

Weight

- 7 lb/4.5 kg dry
- 12 lb/5.9 kg shipping

Optional Accessories

- Select Control Panel
- Volume Control Panel

Part Number

- 910-155-01 PSR1212 Digital Matrix Mixer

> CLEARONE LOCATIONS

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