

PSR

PSR1212 Digital Matrix Mixer

ClearOne.

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.



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

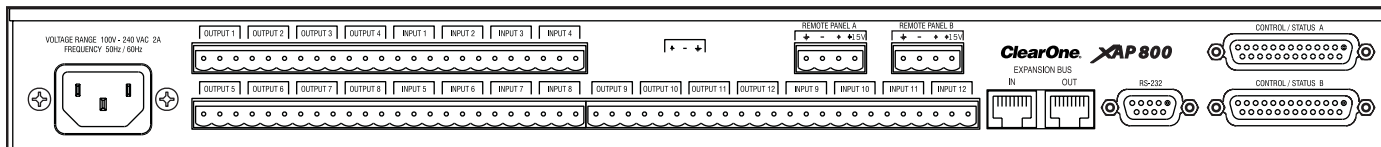
Configuration Flexibility

- + 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

> 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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