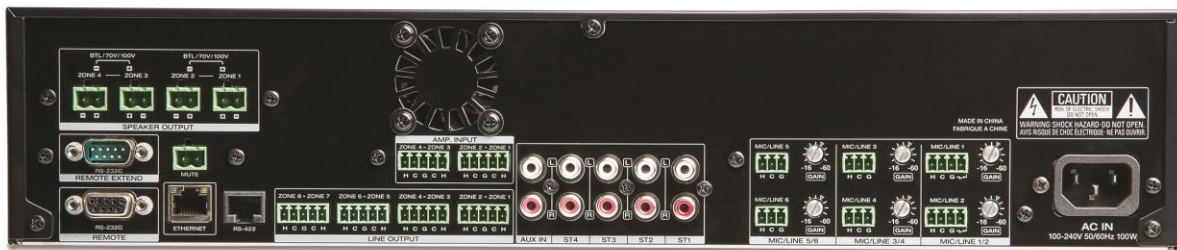# DN-508MXA

8 Zone Mixer with 4 Zone Amplifier

Recognizing a crucial, unfulfilled need in the professional market for a unit that can command and manage a wide variety of audio sources through a single unit, the DN-508MXA Zone Mixer is a refreshingly uncomplicated, high-performance solution for controlling and routing up to eight audio sources in multi-room venues. Special attention has been paid to the design of the front panel interface to make it intuitive and easy to operate, which makes the "learning curve" very short. The 508MXA has on-board zone amplification for added flexibility when configuring a specific system with different requirements.

Typical applications include restaurants, hotels, museums, nightclubs, sports bars and large corporate offices. The mixer has remote controllability via RS-232C and IP for commercial installations.

The DN-508MXA has several features dedicated for professional use such as a professional grade head-amp, MIC/LINE PAD, full BTL balanced outputs, 3-band EQ for inputs, 5-band EQ for outputs, Priority, Delay, Dynamics, system control application (Web remote), and scheduling function to operate automatically for optimum energy efficiency.

A Web-based GUI makes it simple to control every function of the unit, from whatever device is most convenient for the user.

Specifications:

- Frequency Response: 20 Hz – 20 kHz (+0.5 dB)
- Dynamic Range: > 109 dB (A-weighted)
- Signal-to-Noise Ratio: > 89 dB (A-weighted)
- Headroom: > 20 dB
- Mic Input EIN: < -127 dBu (Rs = 150 Ω, DIN)
- Mic Input CMRR: > 80 dB
- Maximum Gain: 88 dB (Mic Input to Master Output)
- Channel Separation: < -100 dB
- THD
    o Mic/Line Inputs: < 0.05%
    o ST Inputs: < 0.01%

- Analog Inputs
    o Mic Inputs
        ▪ Maximum: -40 to -20 dBu (+4 dBu)
        ▪ Unity: -60 to -40 dBu (-16 dBu)
    o Line Inputs
        ▪ Maximum: -20 to 0 dBu (+24 dBu)
        ▪ Unity: -40 to -20 dBu (+4 dBu)
    o ST Inputs
        ▪ Maximum: +18 dBV
        ▪ Unity: 0 dBV
    o Aux Inputs
        ▪ Maximum: +18 dBV
        ▪ Unity: 0 dBV
    o Amp Inputs (Line)
        ▪ Maximum: +24 dBu
        ▪ Unity: +4 dBu

- Analog Outputs
    o Zone 1-8 Outputs
        ▪ Maximum: +24 dBu
        ▪ Unity: +4 dBu
    o Speaker (Amp) Output
        ▪ Low Impedance: 60W @ 8 Ohm / 4 Ohm
        ▪ Low Impedance BTL: 120W @ 8 Ohm / 4 Ohm, 2 Zone BTL

- High Impedance: 70V/120W, 100V/120W, 2 Zone BTL

- Effects
  o Equalization (3-Band, Inputs)
    - SHH: 100 Hz – 20 kHz (+18 dB)

    - PEQ: 100 Hz – 20 kHz (+18 dB), Q: 0.1–63.0
    - SHL: 20 Hz – 20 kHz (+18 dB)
  o Equalization (5-Band, Outputs)
    - High PEQ: 100 Hz – 20 kHz (+18 dB), Q: 0.1–63.0
    - Mid-High PEQ: 100 Hz – 20 kHz (+18 dB), Q: 0.1–63.0
    - Mid PEQ: 100 Hz – 20 kHz (+18 dB), Q: 0.1–63.0
    - Mid-Low PEQ: 100 Hz – 20 kHz (+18 dB), Q: 0.1–63.0
    - Low PEQ: 20 Hz – 20 kHz (+18 dB), Q: 0.1–63.0
  o Delay
    - Attenuation: 0–1000 ms
  o 8 Automatic Gain Control (AGC)
    - Compensation: 1–5
    - Response Time: 100–500 ms
    - Noise Gate: < -80 dBFS
  o Priority Attenuation (1st & 2nd priorities)
    - Threshold: -74 to -20 dBFS
    - Attenuation: -∞ to 0 dB
    - Attack Time: 0–300 ms
    - Hold Time: 1–1960 ms
    - Release Time: 3–4270 ms
  o Dynamics (Compressor/Limiter)
    - Threshold: -92 to -20 dBFS
    - Ratio: 1.0:1 – 20.0:1, ∞:1
    - Attack Time: 0–120 ms
    - Release Time: 3–4270 ms
    - Gain: 0 to +20 dB
    - Knee: Hard, 1–5
  o Auto Fade Out/In for Source Selector
    - Attenuation -30 dB
    - Attack Time 100 ms
    - Hold Time & Mixing 100 ms
    - Release Time 100 ms

- Communication

- o RS-232C
  - Connectors: 9-pin D-Sub female connector (Remote input), 9-pin D-Sub male connector (Remote Extend output)
  - Speed: 9600/38400 bps
  - Power: +5 V via D-Sub connection
- o RS-422
  - Connector: RJ-45
  - Speed: 38400 bps
  - Terminal: 110 Ω on/off

  - Power: +5 V via RJ-45 connection
- o Ethernet
  - Connector: LAN port
  - Standards: Ethernet 10/100 Base

- Other/General
  - o Level Indicators
    - Mic/Line: 1 LED (green-amber-red) per mic/line input
    - Source: 1 LED (green-amber-red) per ST input
    - Output: 1 LED (green-amber-red) per zone
    - Protection: 1 LED (red) per Speaker Output zone
    - Peak Indication: -1 dB to 0 dB
  - o Connections
    - (2) 5-pin Euroblock inputs (2 hot, 2 cold, 1 ground)
    - (2) 4-pin Euroblock inputs (1 hot, 1 cold, 1 ground, 1 page switch)
    - (4) 3-pin Euroblock inputs (1 hot, 1 cold, 1 ground)
    - (1) stereo RCA auxiliary input
    - (1) stereo 1/8" (3.5 mm) auxiliary input
    - (4) stereo RCA ST inputs
    - (4) 5-pin Euroblock outputs (2 hot, 2 cold, 1 ground)
    - (5) 2-pin Euroblock outputs (1 positive, 1 negative)
    - (1) LAN port
    - (1) RJ11/RJ14 port, RS-422
    - (1) 9-pin
    - (1) 9-pin D-Sub male connector, RS-232C
    - (1) IEC power input
  - o Operation Conditions
    - Temperature: 41–95F / 5–35C
    - Humidity: 25–85%, non-condensing
  - o Power

- Connection: IEC
- Requirement: 100–240V AC, 50/60 Hz
- Consumption: 130 W @ 1/8 of output power
  o Dimensions (width x depth x height, with rack ears)
  - 19.0" x 16.3" x 3.5"
  - 483 mm x 415 mm x 88 mm
  o Weight
  - 23.6 lbs
  - 10.7 kg