



# DENON DJ



Professional 19-inch Matrix Mixer  
with Rotary Option

## DN-X500



We listen, we understand, we build. The result is our all new DN-X500 rackmount mobile/club DJ mixer. Rock solid construction, superb audio fidelity, high quality parts, and of course reliability are the core ingredients of our design. The DN-X500's unique features provide Mobile and Club DJs tremendous flexibility and intuitive control. Eight-channel input matrix routing gives you the freedom to move any source to any channel or even the same source to multiple channels for remixing. Pre-fader level metering and gain control as well as Long 60 mm smooth channel faders are individually replaceable with our rotary knob option (ACD-46). Three-Band EQ with full output kill, booth output with channel select, two mic inputs with talkover sensitivity and effects send/return with cue, dry/wet knob and channel select should all make this new mixer the one you've been waiting for.

### Advanced Features

- **Matrix Input Assignment**  
No longer does your device need to be married to a particular Channel. Eight input sources are freely assignable to any channel or even multiple channels.
- **8 Line / 2 Phono Switchable**
- **4 Smooth 60mm VCA Channel Faders**
- **Responsive 45mm VCA Cross Fader w/Contour Adjust**
- **Independent Channel PFL Meters**  
All input levels can be pre-adjusted in advance to match the gain levels, insuring a smooth transition between fades.
- **Independent 3-Band EQ Kill (High-Mid-Low)**
- **Independent EQ On/Off Switch**
- **Booth Output Assign Selector**  
Pre-monitor any channel including Master through the booth output in the same manner as you would with your headphones, with volume control!
- **External Send/Return Control**
  - Multi Channel Assignable
  - Effect On/Off
  - Effect Cueing (Pre & Post)
  - Effect Dry/Wet Knob
- **Independent Channel A-B Post Switch (crossfader)**
- **Powerful Clean Headphone Output**
- **Fader Start (5V pulse)**  
Cross Fader and Channel Fader-Start Trigger is compatible with all Denon DJ CD/MP3 players.
- **Compact 4U Rack Space with Recessed Rear Terminals**
- **Independent 3-band Main and Aux Mic EQ**
- **Independent CUE System (all channels)**
- **Mic Talkover Function w/Sensitivity Adjustment**

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# DN-X500

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## Other Features

- Split /Cue Headphone Monitor w/PFL Metering
- Master Output -10dB Attenuation Switch
- Master Output Stereo/Mono Switch
- Record Out - RCA/Unbalanced
- Subwoofer/Lighting Output w/Freq Adjust  
Ideal for powered speakers, powered amp or even a signal feed for lighting systems.
- **Optional Rotary Knob Kit, Model: ACD-46**  
A DJ or club owner can easily swap out any Channel Fader (1 to 4) and replace them with our Optional ACD-46 Rotary Knob Kits, making the DN-X500 appealing to both Fader and Knob style DJs. With its powerful matrix routing option, it doesn't matter where they get installed (see fig.1)

Figure 1



## Specifications

### GENERAL

#### Dimensions

19.0 (W) x 4.4 (H) x 6.9 (D) inch  
482 (W) x 112.5 (H) x 177 (D) mm

#### Weight

5.8 kg, 13 lbs.

#### Power Supply

AC120 V  $\pm$ 10%, 60 Hz

#### Power Consumption

27 W

### AUDIO SECTION

#### Input Level and Impedance

8-Line-14 dBV (200 mV) 50 k $\Omega$ /kohms  
2-Phono -50 dBV (3.0 mV) 50 k $\Omega$ /kohms  
Effect (Return) -14 dBV (200 mV)

50 k $\Omega$ /kohms

Main Mic -54 dBV (2.0 mV) 10 k $\Omega$ /kohms

Aux Mic -60 dBV (1.0 mV) 10 k $\Omega$ /kohms

#### Output Level and Impedance

Balanced 4 dBm (1.23 V) 600  $\Omega$ /ohms

Unbalanced 0 dBV (1.0V) 1 k $\Omega$ /kohms

Booth (Balanced) 4 dBm (1.23 V)

600  $\Omega$ /ohms load

Rec (RCA) -10 dBV (316 mV) 1 k $\Omega$ /kohms

Effect (Send) -14 dBV (200 mV) 1 k $\Omega$ /kohms

Subwoofer/Lighting 2 dBm (975 mV)

600  $\Omega$ /ohms

Headphone 0 dBV (1.0 V) 32  $\Omega$ /ohms

#### Frequency Response

Line 20 to 20 kHz  $\pm$ 2 dB

Phono 20 to 20 kHz RIAA  $\pm$ 2 dB

Mic 20 to 20 kHz  $\pm$ 2 dB

#### Signal to Noise Ratio

Line 82 dB (0 dBm, 1 kHz, EQ flat)

Phono 75 dB (0 dBm, 1 kHz, EQ flat)

Main Mic 65 dB (0 dBm, 1 kHz, EQ flat)

#### Total Harmonic

#### Distortion Rate

Line Below 0.05%

Phono Below 0.05%

Cross talk Over 70 dB

#### Channel Equalizer

Hi +10 dB, -35 dB (16 kHz)

Mid +10 dB, -35 dB (1 kHz)

Low +6 dB, -35 dB (60 Hz)

#### Microphone Equalizer

Hi +12 dB, -12 dB (10 kHz)

Mid +12 dB, -12 dB (1 kHz)

Low +12 dB, -12 dB (100 Hz)

ACD-46 Option



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