



DN-500R SD/USB Audio Recorder



Adding to the already successful 500-series – the new line of workhorse and affordable A/V products for installation by Denon Professional, enters the DN-500R SD/USB Audio Recorder. Conveniently tooled in the familiar 1 RU chassis, the DN-500R further emphasizes Denon Pro's commitment to providing professional, feature-rich installation products at affordable prices to the contracting industry. With a bright, highly-visible OLED display, SD/SDHC and USB media recording and playback, the 500R lends itself to a myriad of applications like houses of worship, education and lecture recording, and more.

The DN-500R is an ideal choice for audio recording installations no matter the environment. Based on twenty-five historic years of audio performance and rock solid reliability, the DN-500R acquires important audio with ease – every time. With analog balanced XLR and unbalanced RCA inputs as well as broadcast-grade AES/EBU digital inputs, the 500R is poised to capture audio in industry standard formats in any environment. And our new switching power supply allows for easy-integration into applications and environments that find themselves outside the realm of 110V AC power.

Not only can audio be captured to an SD/SDHC card up to 24-bit/96kHz, but the front-panel mounted USB port allows for the acquisition of audio as well. And the two record mediums can be used simultaneously with the new Dual Record feature, ideal for conferences that need to have the audio immediately or in applications where proper capture must be ensured. Additionally,

the Relay Record feature can extend record times by switching to the other media when the primary memory is full. A front panel USB keyboard port allows for naming of files while a recording is happening as well as control of the device. Full control can also be achieved by the on-board RS-232c serial connection for integrated systems by AMX or Crestron and the GPIO port allows instant triggerable access to many features, including the DN-500R's 20 assignable hot start playback files.

Recordings can be edited directly on the device or marked with EDLs for later review. When imported to the included DMP Mark Editor Software (Windows only), those marks come with the file, ensuring instant access to points of interest.

And not only is the DN-500R the perfect standalone audio recorder, but it is a rock-solid audio playback device making it an affordable and appropriate solution for just about any audio installation.

Features

- Records to SD/SDHC and USB media in MP3 and WAV (up to 24-bit/96kHz)
- Dual Record feature (records to both media options simultaneously for primary and backup recording)
- Relay Record feature (continues recording to backup media when primary media is full)
- XLR and RCA audio connections (analog and digital)
- Timer recording/playback (30 schedules available for each)
- MP3, WAV, AIFF, AAC playback
- RS-232c, GPIO, USB keyboard remote control
- Front panel USB keyboard connection
- EDL marking & file edit functions (Move, Copy, Combine and Divide)
- Record Monitor (listen the recorded signal while recording)
- Large, bright OLED display
- DMP Mark Editor software included (Windows only)
- 100-230V switching power supply
- Removable rack ears



Rear panel

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Experience 25 years of innovation,
reliability and audio quality.



Specifications and features subject to change

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DN-500R Specifications

System	SD/USB Recorder
Compatible media	SD/USB memory/USB HDD
Playable formats, file systems	SD, USB: FAT16/FAT32/HFS+
Playable WAV Format	
Extension	WAV, AIFF, AIF
Resolution	16 bit, 24 bit
Sampling frequency	96, 48, 44.1 kHz
Playable MP3 Format	
Extension	MP3
Bit rate	32 – 320 kbps and VBR
Sampling frequency	48, 44.1 kHz
Playable AAC Format	
Extension	M4A
Compression method	AAC-LC
Bit rate	64 – 320 kbps and VBR
Sampling frequency	48, 44.1 kHz
Number of channels	2 (stereo), 1 (mono)
Audio frequency characteristics	20 Hz – 20 kHz (+0.5 dB / -1 dB)
S/N ratio (A-Weighted)	More than 89 dB
Total harmonic distortion	Less than 0.01 %
Dynamic range	More than 106 dB (for 24 bit WAV playback)
Channel separation	Less than -90 dB
Variable pitch width	-16 % – +16 %
Variable trim adjustment width	±2.0 dB

Input	
BALANCED ANALOG IN L/R	
Type	XLR(1:GND, 2:Hot, 3:Cold)
Line setting	
Input level	+4 dBu
Maximum input level	+24 dBu/+20 dBu/+18 dBu
Input impedance	20kΩ/kohms
UNBALANCED ANALOG IN L/R	
Type	RCA terminal
Input level	-10 dBV
Maximum input level	+10 dBV/+6 dBV/4 dBV
Input impedance	10 kΩ/kohms
UNBALANCED DIGITAL IN	
Type	RCA terminal
Input impedance	75 Ω/ohms
Standard input level	0.5 Vp-p
Format	IEC-60958 (COAXIAL)
BALANCED DIGITAL IN	
Type	XLR (1:GND, 2:Hot, 3:Cold)
Input impedance	110 Ω/ohms
Standard input level	3.5 Vp-p
Format	IEC-60958 (AES/EBU)

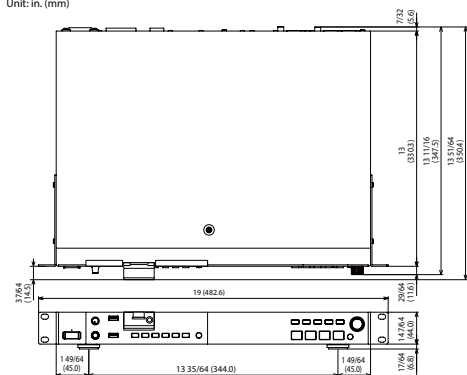
For purposes of improvement, specifications and design are subject to change without notice.

Output	0dBu=0.775 Vrms 0dBV=1.0 Vrms
BALANCED ANALOG OUT L/R	
Type	XLR (1:GND, 2:Hot, 3:Cold)
Load impedance	Over 600 Ω/ohms
Output level	+4 dBu at 600 Ω/ohms load
Maximum Output level	+24 dBu/+20 dBu/+18 dBu
UNBALANCED ANALOG OUT L/R	
Type	RCA terminal
Load impedance	Over 10 kΩ/kohms
Output level	-10 dBV
Maximum Output level	+10 dBV/+6 dBV/+4 dBV
BALANCED DIGITAL OUT	
Type	XLR (1:GND, 2:Hot, 3:Cold)
Output impedance	110 Ω/ohms
Standard output level	3.0 Vp-p
Format	IEC-60958 (AES/EBU)
UNBALANCED DIGITAL OUT	
Type	RCA terminal
Output impedance	75 Ω/ohms
Standard output level	0.5 Vp-p
Format	IEC-60958 (COAXIAL)
HEADPHONE OUT	20 mW/32 Ω/ohms

Others	
Maximum storage capacity	Up to 2 TB
Maximum file size	2 GB
Maximum number of files	2000 files (for 1 folder)
Maximum number of folders	1000 folders
Maximum number of folder hierarchies	8 (under the root directory)

General	
Power supply	AC 120 V, 60 Hz (U.S.A and Canada models) AC 230 V, 50/60 Hz (European, U.K and Asia/Pacific models)
Power consumption	30 W 0.4 W (standby)
Environmental conditions	
Operating temperature	5 – 35 °C
Operating humidity	25 – 85 %, no condensation
Storage Temperature	-20 – 60 °C

Unit: in. (mm)



Weight: 7 lbs 14.99 oz (3.6 kg)