



# 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

[www.d-mpro.com](http://www.d-mpro.com)  
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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

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

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

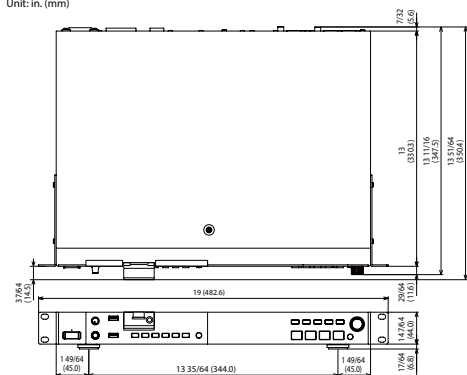
For purposes of improvement, specifications and design are subject to change without notice.

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

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

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

Unit: in. (mm)



Weight: 7 lbs 14.99 oz (3.6 kg)