


www.denonpro.com

PHONE: [401] 658.3131 January 31, 2023



DN-900R

Network SD/USB Audio Recorder with Dante 2 x 2 Interface

Key Features:

- Records to SD/SDHC and USB media in MP3 and WAV (up to 24-bit/96kHz)
- Dual Record feature (records to two media options simultaneously for primary and backup recording)
- Dante™ 2 x 2 network interface for recording and playback
- Relay Record feature (continues recording to backup media when primary media is full)
- File Archiving via FTP (automatic or timed) with 24/7 record feature
- Web Remote for setup and control with password protection

Overview:

Taking its place as Denon Professional's flagship recording product, the DN-900R Dante/Network SD/USB Recorder is designed to meet the needs of the most demanding installations, combining high-quality audio recording with extensive network capabilities. With a powerful feature set and using the most reliable solid-state recording media, the DN-900R enables AV installation professionals to replace traditional recording devices with superior solid-state hardware in the widest range of applications.

Housed in a compact 1U rack-mountable chassis, the DN-900R offers Dante 2-in/2-out network compatibility as well as recording to both reliable SD card (two slots, 32GB ea.) and USB storage media. The unit can be configured for

Specifications:

- Inputs
 - Mic/Line In (2 XLR connectors)
 - Line In (2 RCA connectors)
 - Digital In (1 AES/EBU, 1 S/PDIF)
 - Dante Digital In (RJ-45 Connector)
- Balanced Analog In L/R
 - Type:
 - XLR (1: GND, 2: HOT, 3: COLD)
 - Line Setting Input Level:
 - +4dBu
 - Maximum Input Level:
 - +24 dBu/+20 dBu/+18 dBu
 - Input Impedance:
 - 20 kΩ
 - Mic Setting Input Level:
 - -60 to 16 dBu
 - Input Impedance:
 - 5 kΩ
 - EIN:
 - Less than -127 dBu (Rs = 150Ω)
 - CMRR:
 - < 80 dB
- Unbalanced Analog In L/R
 - Type:
 - RCA terminal
 - Input Level:
 - -10 dBV
 - Maximum Input Level:
 - +10 dBV/+6 dBV/4 dBV

'dual' simultaneous recording to both formats or 'relay/cascade' recording where longer recording times are desirable.

Designed for professional environments, the DN-900R features versatile connectivity including balanced XLR analog audio and AES/EBU digital I/O, as well as unbalanced analog connections and SPDIF.

DN-900R

- Input Impedance:
 - 10 k Ω
- Unbalanced Digital In
 - Type:
 - RCA terminal
 - Input Impedance:
 - 75 Ω
 - 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
 - Standard Input Level:
 - 3.5 Vp - p
 - Format:
 - IEC-60958 (AES/EBU)
- Dante Digital In
 - Type:
 - 10/100 Ethernet RJ-45 connector
 - Format:
 - 24 bit; 96, 48, 44.1 kHz sampling rates, uncompressed
- Outputs
 - Balanced Analog Out L/R
 - (XLR)
 - Unbalanced Out L/R
 - (RCA)
 - Balanced Digital Out
 - (AES/EBU)
 - Unbalanced Digital Out
 - (S/PDIF)
 - Headphone Output
 - (1/4" / 6.35mm)
 - Dante Digital Out
 - (RJ-45 connector)
- Balanced Analog Out L/R
 - Type:
 - XLR (1: GND, 2: HOT, 3: COLD)
 - Load Impedance:
 - over 600 Ω
 - Output Level:
 - +4 dBu at 600 Ω load
 - Maximum Output Level:
 - +24 dBu/ +20 dBu/ +18 dBV
- Unbalanced Analog Out
 - Type:
 - RCA terminal
 - Load Impedance:
 - Over 10 k Ω
 - 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
 - Standard Output Level:
 - 3.0 Vp - p
 - Format:
 - IEC-60958 (AES/EBU)
- Unbalanced Digital Out

- Type:
 - **RCA terminal**
- Output Impedance:
 - **75 Ω**
- Standard Output Level:
 - **0.5 Vp - p**
- Format:
 - **IEC-60958 (Coaxial)**
- Dante Digital Out
 - Type:
 - **10/100 Ethernet RJ-45 connector**
 - Format:
 - **24 bit; 96, 48, 44.1 kHz sampling rates, uncompressed**
- Dante Network Audio
 - Latency:
 - **Less than 1 ms (excluding auxiliary signal paths)**
 - Sample Rate:
 - **DN-900R uses SRC on its output to Dante to convert recorder sample rates to Dante Network sample rates**
 - Sample Bit Depth:
 - **24 bit**
- Compatible Media:
 - **SD/USB memory/USB HDD**
- Headphone Out:
 - **¼" (6.35mm) 20 mW/32 Ω**
- Storage
 - 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)**
- File System:
 - **FAT16, FAT32, HFS+**
- File Format Specifications
 - Compatible Media:
 - **SD, SDHC, USB memory, USB HDD**
 - Extension:
 - **WAV, AIFF, AIF**
 - Resolution:
 - **16 bit, 24 bit**
 - Sampling Frequency:
 - **44.1k, 48k, 96k**
- Playable MP3 Format
 - Extension:
 - **MP3**
 - Bit Rate:
 - **32 - 320 kbps, VBR**
 - Sampling Frequency:
 - **44.1k, 48k**
- Playable AAC Format
 - Extension:
 - **M4A**
 - Compression Method:
 - **AAC-LC**
 - Bit Rate:
 - **64 - 320 kbps, VBR**
 - Sampling Frequency:
 - **44.1k, 48k**
- Number of Channels:
 - **2 (stereo), 1 (mono)**
- Audio Frequency Characteristics:

- Line / Mic (-16 dBu) (+0.5 dB / -1 dB)
- S/N Ratio:
 - < 89 dB (A-weighted)
- Total Harmonic Distortion:
 - Less than 0.01 %
- Dynamic Range:
 - <106 dB (for 24 bit WAV playback)
- Channel Separation:
 - > -90 dB
- Variable Pitch Width:
 - -16 % to + 16 %
- Variable Trim Adjustment Width:
 - ± 2.0 db
- Power
 - Connection:
 - Standard IEC (switching power supply)
 - Input Voltage:
 - 120V AC, 60Hz (US and Canada models) 230V AC 50/60 Hz (EU, UK, Asia/Pacific models)
 - Power Consumption:
 - 30 W, 0.4 W (standby), 3.4W (network standby)
- Environmental Conditions
 - Operating Temperature:
 - 41 - 95 °F
 - Operating Humidity:
 - 25 - 85 %, non-condensing
 - Storage Temperature:
 - -4 to 140 °F
- Dimensions (width x depth x height):
 - 16.92" x 9.48" x 1.68" (430 x 241 x 43mm)
- Weight:
 - 5.7 lbs (2.6 kg)