



# 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

### 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

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 '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.

- Input Impedance:
  - 5 k $\Omega$
- EIN:
  - Less than -127 dBu ( $R_s = 150\Omega$ )
- CMRR:
  - < 80 dB
- Unbalanced Analog In L/R
  - Type:
    - RCA terminal
  - Input Level:
    - -10 dBV
  - Maximum Input Level:
    - +10 dBV/ +6 dBV/ 4 dBV
  - Input Impedance:
    - 10 k $\Omega$
- Unbalanced Digital In
  - Type:
    - RCA terminal
  - Input Impedance:
    - 75  $\Omega$
  - Standard Input Level:
    - 0.5 V<sub>p</sub> - p
  - Format:
    - IEC-60958 (Coaxial)
- Balanced Digital In
  - Type:
    - XLR (1: GND, 2: HOT, 3: COLD)
  - Input Impedance:
    - 110  $\Omega$
  - Standard Input Level:
    - 3.5 V<sub>p</sub> - 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  $\Omega$
  - Output Level:
    - +4 dBu at 600  $\Omega$  load
  - Maximum Output Level:
    - +24 dBu/ +20 dBu/ +18 dBV
- Unbalanced Analog Out
  - Type:
    - RCA terminal
  - Load Impedance:
    - Over 10 k $\Omega$
  - 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  $\Omega$
  - Standard Output Level:
    - 3.0 Vp - p
  - Format:
    - IEC-60958 (AES/EBU)
- Unbalanced Digital Out
  - Type:
    - RCA terminal
  - Output Impedance:
    - 75  $\Omega$
  - 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)

