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.

- Input Impedance:
  - 10 kΩ
- 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 kΩ
  - 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)