DN-700R Network SD/USB Audio Recorder

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)
- 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
- Independent switchable XLR Mic/Line inputs with +48V Phantom Power
- Timer recording/playback (30 schedules available)
- IP, RS-232c, GPIO, USB keyboard remote control
- Front panel USB keyboard connection
- NTP supported (Network Time Protocol)
- 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)
- Compatible with Denon Professional Product Manager software
- 100-230V switching power supply
- Removable rack kit

Overview:

Taking its place as Denon Professional's flagship recording product, the DN-700R 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-700R allows 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-700R offers recording to both reliable SD card (two slots) 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-700R features versatile connectivity including balanced XLR analogue audio and AES/EBU digital I/O, as well as unbalanced analog connections and SPDIF. A remote mic head amp is also available.

For integration into complex installation scenarios, the DN-700R allows network connection via DLNA/UPnP, alongside powerful Web/IP control and direct FTP access. Archiving via network can be performed automatically or at pre-programmed times. Scheduling is also supported, as is NTP (Network Timer Protocol).

The DN-700R can be controlled using a variety of remote control interfaces including Parallel GPIO, RS-232c and even a network using its built-in Web Remote. This web-based interface allows a user full control of the DN-700R from setup menus to transport control and hot start playback– even from mobile browsers. This provides complete access to the

Specifications:

- File Format Specifications
  - 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
- Audio Specifications
  - Number of channels: 2 (stereo), 1 (mono)
  - Audio frequency characteristics: 20 Hz – 20 kHz (+0.5 dB / –1 dB)
  - S/N ratio: More than 89 dB (A-Weighted)
  - 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)
  - Input level: +4 dBu
  - Maximum input level: +24 dBu/+20 dBu/+18 dBu
  - Input impedance: 20 kΩ
- INPUT - 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
- INPUT - Unbalanced Digital IN
  - Type: RCA terminal
  - Input impedance: 75 Ω
  - Standard input level: 0.5 Vp-p
  - Format IEC-60958(COAXIAL)
- INPUT - 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)
- OUTPUT - Balanced Analog 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 dBu
- OUTPUT - Unbalanced Analog L/R
  - Type: RCA terminal
  - Load impedance: Over 10 kΩ
  - Output level: –10 dBV
  - Maximum output level: +10 dBV/+6 dBV/+4 dBV
- OUTPUT - Balanced Digital
  - Type: XLR (1:GND, 2:Hot, 3:Cold)
  - Output impedance: 110 Ω

recorder located in remote areas and when the installation is not always easily accessible.

For direct control, the front panel is designed for ease of use with a bright OLED display and large function buttons offering fast, simple front panel operation. A USB Keyboard input allows file name editing.

The DN-700R also offers programmable timer operation for both recording and playback functions.

Denon Professional's Product Manager Software is included with the DN-700R for single point control of multiple players from a PC/Mac over the network. Complete with full access to the Web Remote as well as unique power on/off capabilities that allow power on and power off sequences to be programmed remotely for single units or multiple units in groups.

- o Standard output level: 3.0 Vp-p
- o Format: IEC-60958(AES/EBU)
- OUTPUT - Unbalanced Digital
  - o Type: RCA terminal
  - o Output impedance: 75 Ω
  - o Standard output level: 0.5 Vp-p
  - o Format: IEC-60958(COAXIAL)
- OUTPUT - Headphone Out
  - o 20 mW/32 Ω
- Other
  - o Maximum storage capacity: Up to 2 TB
  - o Maximum file size: 2 GB
  - o Maximum number of files: 2000 files (for 1 folder)
  - o Maximum number of folders: 1000 folders
  - o Maximum number of folder hierarchies: 8 (under the root directory)
- Environmental
  - o Operating temperature: 5 – 35 ℃
  - o Operating humidity: 25 – 85 %, no condensation
  - o Storage temperature: –20 – 60 ℃
- General
  - o Power supply (U.S.A and Canada models): AC 120 V, 60 Hz
  - o Power Supply (European, U.K and Asia/Pacific models): AC 230 V, 50/60 Hz
  - o Power consumption: 30W (typical), 0.4W (standby)
  - o Dimensions (L x W x H): 19" x 13" x 1.74" (483 x 330 x 44 mm)
  - o Weight: 7 lbs 14.99 oz (3.6 kg)