SD/SDHC	USB	WAV/MP3	24/96	RS-232c	GPIO	NET

DUAL·RECORDING·

24/7 Recording

DN-700R
Network SD/USB Audio Recorder

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 analog audio and AES/EBU digital I/O, as well as unbalanced analog and digital connections. The balanced inputs can also be set to accept MIC level signals and offer +48V phantom power.

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) for minute accurate scheduling.

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 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 and device control.

The DN-700R also offers programmable timers 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 sequences to be programmed remotely for single units or multiple units in groups.

Denon Pro Product Manager Software (included)

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**

D&M Professional's DMP Mark Editor software included

Specifications and features subject to change

Rear panel

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DN-700R Specifications

System	Network SD/USB Recorder
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
Number of channels	2 (stereo), 1 (mono)
Audio frequency characteristics	LINE / MIC(–16 dBu)20 Hz – 20 kHz(+0.5 dB / –1 dB)
S/N ratio (A-Weighted)	More than 89 dB
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)
Line setting	
Input level	+4 dBu
Maximum input level	+24 dBu/+20 dBu/+18 dBu
Input impedance	20kΩ/kohms
MIC setting	
Input level	–60 – 16dBu
Input impedance	5 kΩ/kohms
EIN	Less than–127 dBu(Rs=150 Ω/ohms)
CMRR	More than 80dB
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/kohms
UNBALANCED DIGITAL IN	s
Type	RCA terminal
Input impedance	75 Ω/ohms
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/ohms
Standard input level	3.5 Vp-p
Format	IEC-60958 (AES/EBU)

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

Others	
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)

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

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

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