

MP3

SD

USB

## DN-F650R Solid State/ USB Recorder



The Denon DN-F650R is a highly versatile professional solid state recorder offering recording to and between SD/SDHC flash card and USB external drives. Designed to fulfill the most demanding playback and recording applications in AV installation, audio production, live sound, theatre and broadcast, the DN-F650R is a professionally specified up to date replacement for cassette, DAT, MD, CDR and commodity PC based systems currently fulfilling such roles.

Balanced XLR analogue audio and AES/EBU digital I/Os are featured, as well as unbalanced analogue and SPDIP connectivity. Serial, parallel and contact closure remote control are supported, and the unit can be operated with DENON's latest RC-F400S 'Hot Start' serial remote controller.

The OLED display and easy file search jog wheel enable simple front panel operation. A USB Keyboard input allows for simple file name editing. A variety of playback modes includes single, repeat, random, continuous and skip back play. Pitch control (between +20 and -40%), tempo lock, and a headphone out with volume control are also included. Cascade recording and file management capabilities between the SD / SDHC card and connected USB drive, and USB connectivity to PC enables file transfer.

### Features

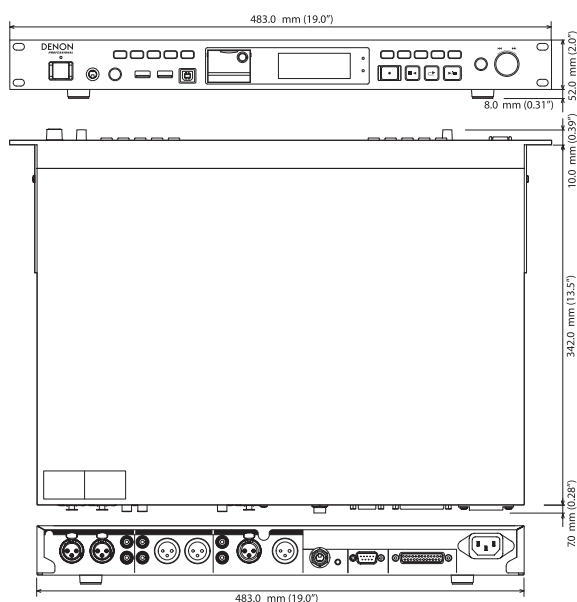
- Recording to SD(HC) cards or various USB devices
- OLED display
- Balanced and unbalanced audio input / output
- Digital audio input / output as SPDIF and AES/EBU
- Serial (RS232) / Parallel Remote
- USB keyboard input for easy track naming
- $\pm 20\%$  Pitch Control, Tempo Lock
- 19 inch rack mountable, 1U size
- Supports WAV (PCM) and MP3 format
- Connecting to PC via USB
- Contact closure remote control
- Audio Marking during record & Mark search playback
- Skip Back Playback
- Audible Quick Search
- Various playback modes (Single/Continuous, Repeat, Random)
- Power On Auto Play
- Easy file search with Jog Wheel
- Headphones with Level Control



Rear panel

# DN-F650R Specifications

<b>DIGITAL AUDIO SYSTEM</b>		<b>DIGITAL AUDIO SYSTEM</b>	
Compatible recording media	SD/SDHC card, USB flash memory, external USB recording media	Balanced out L/R Type	XLR (1:GND, 2:Hot, 3:Cold)
Recording format MP3 compression	MPEG1 Layer III audio	Maximum level	+24 dBu / 600 Ω (0dBFS Reference)
WAV	16/24-bit linear PCM	Unbalanced line out L/R Type	RCA terminal
Recording MP3 bitrate (selectable)		Standard level	2 Vrms / 10 kΩ
MONO	160, 128, 96, 64, 32 kbps	Balanced digital out Type	XLR (1:GND, 2:Hot, 3:Cold)
STEREO	320, 256, 192, 128, 64 kbps	Output impedance	110 Ω
Sampling frequency	96 kHz, (PCM recording only),	Standard input level	3.5 Vp-p
Number of channels	2 (STEREO)1 (MONO)	Format	IEC-60958 (AES/EBU)
Audio frequency characteristics	20 – 40,000 Hz ± 1.0 dB (Fs=96kHz)	Unbalanced digital out Type	RCA terminal
S/N ratio, IEC-A filter	96 dB(0dBFS During playback at 1 kHz) (AES-17 20kHz filter)	Output impedance	75 Ω
Total harmonic distortion (at 0 VU (PCM))		Output impedance	0.5 Vp-p
Dynamic range	96 dB	Format	IEC-60958 (SPDIF)
Variable pitch width	-40% – +20%	Headphone out	20 mW/32 Ω
<b>INPUT</b>		<b>OTHERS</b>	
Balanced in L/R Type	XLR (1:GND, 2:Hot, 3:Cold)	Maximum capacity of recording media	Theoretically, no limit up to 2TB.
Input sensitivity	+24 dBu,+20 dBu,+18 dBu,0 dBu / 24 kΩ (0dBFS Reference)	Maximum file size	4GB
Line in L/R Type	RCA terminal	Maximum number of files	999 files per folder
Input sensitivity	500 mVrms/22 kΩ	Maximum number of folders	32 folders
Unbalanced digital in Type	RCA terminal	Maximum number of layers (number of hierarchical levels)	1 (immediately under the root folder)
Input impedance	75 Ω	Maximum number of marks	30 marks
Standard input level	0.5 Vp-p	Maximum number of characters for a file name	255 characters
Format	IEC-60958 (SPDIF)	Maximum number of characters for a folder name	255 character
Balanced digital in Type	XLR (1:GND, 2:Hot, 3:Cold)	Maximum number of characters for preset names	8 characters
Input impedance	110 Ω	Maximum number of characters for a machine ID	8 characters
Standard input level	3.5 Vp-p		
Format	IEC-60958 (AES/EBU)		



**Note**

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

<b>GENERAL</b>	
Power supply	AC 120 V, 60 Hz
U.S.A. and Canada models:	
European, U.K. and Asia/Pacific models:	AC 230 V, 50 Hz
Power consumption	22 W
Environmental conditions	
Operating temperature	5 – 35 °C
Operating humidity	25 – 85%, No condensation
Storage temperature	-20 – 60°C
<b>DIMENSIONS (INCLUDING PROTRUDING PARTS)</b>	
Power supply	AC 120 V, 60 Hz
Width	483 mm / 19.0"
Height	52 mm / 2.0"
Depth	342 mm / 13.5"
Weight	3.7 kg