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1RU Solid State / USB Audio Recorder

DN-F650R

Denon Professional, a name synonymous in broadcast, is proud to introduce its next generation solid state audio recorder.

Housed in a compact 1U-rackspace enclosure, the DN-F650R offers contractors and system integrators a versatile solid-state audio recorder / player at an extremely cost-effective price point. The DN-F650R has RS-232c and USB keyboard control, making it perfect for integrated sound systems. Additionally, a full host of inputs and outputs from AES/EBU to Balanced XLR in and out allow for its in-





clusion into nearly every application. Its playback features also include +20% / -40% pitch control, likewise ideal for dance and aerobics/fitness. Additionally, the optional RC-F400 Remote Controller features a large LCD display and enhances the DN-F650's capability by providing an ergonomically designed, intuitive control unit for instant playback of audio or audio elements (sound effects) via its hot-buttons, making it ideal for live events, radio, television, etc.

Key Features

- 1 RU Rackmount size for easy installation
- Records and plays back from stable, industry-standard SD/SDHC flash media and USB drives (Thumb / HDD)
- Records WAV (.wav) at 44.1 / 48 / 96 kHz
- Records MP3 (.mp3) at 32-320 kbps
- Balanced (XLR) and unbalanced (RCA) analog inputs and outputs
- S/PDIF and AES/EBU digital input and output
- +20% / -40% Pitch Control with tempo lock
- Power on auto-play
- Various playback modes (single / continuous, repeat, random)
- Audible guick search
- Skip back playback
- Marking and mark search
- Large, easy-to-read OLED display
- Front-panel mounted USB for connecting to a computer
- Front-panel mounted USB keyboard input for file naming and control
- Serial (RS-232c) and parallel remote inputs
- · Headphone output with level control

Overview

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 analog audio and AES/EBU digital I/Os are featured, as well as unbalanced analog and S/PDIF connectivity. Serial, parallel and contact closure remote control

are supported, and the unit can be operated with Denon Professional's latest RC-F400S 'Hot Start' serial remote controller.

Advanced Usability

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.

Recording and Formats

Stereo and mono audio channels are simultaneously available and both WAV and MP3 file formats are supported, with selectable sample rates of 96, 48 and 44.1 kHz, 24 and 16 bit resolution, and MP3 bit rates between 32 and 320 kbps. Cascade recording and file management capabilities between the SD / SDHC card and connected USB drive, and USB connectivity to PC enables file transfer.



*RC-F400S compatibility available 10/2010

PLEASE NOTE: Specifications are based on measurement conditions and proper care for the machine, and are subject to change without notice.

D&M Professional

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DN-F650R





Specifications

System

Media: SD / SDHC. USB drives WAV / MP3 (MPEG-1 Layer III) File Format: FAT / FAT32 Media Format: MP3 Bit Rate: 32 - 320 kbps / stereo Sampling Frequency: 96 / 48 / 44.1 kHz Quantization: 24 / 16 bit

Audio Section

2 (Stereo) / 1 (Mono) Audio Channels: Frequency Response: 20 Hz \sim 40 kHz \pm 1.0 dB S/N Ratio: 96 dB (1 kHz, 0 dB playback, A filter) 86 dB (1 kHz, 0 dB playback) Channel Separation: Total Harmonic Distortion: 0.01% (1 kHz, 0 dB playback) Dynamic Range: 96 dB Variable Pitch Control: +20% / -40% (0.1% step)

Inputs

Balanced Input: Type XLR (1:GND, 2:Hot, 3:Cold) Input Sensitivity: +24 / +18 / +12 / 0 dBu 24 kohms Input Impedance: Unbalanced Input: Type RCA Input Sensitivity: 500 mVrms Input Impedance: 22 kohms Digital Input (AES/EBU): XLR Digital Input (S/PDIF): **RCA**

Outputs

Type XLR (1:GND, 2:Hot, 3:Cold) Balanced Output: Level: +24 / +18 / +12 / 0 dBu Unbalanced Output: Type RCA 2 Vrms Level: Digital Output (AES/EBU): XI R Digital Output (S/PDIF): **RCA** Headphone Output: Type TRS 1/4" 20 mW / 32 ohms Level:

General

Power Supply: 100V to 230V, 50/60Hz Power Consumption: 22 W Dimensions (W x H x D): 483 x 44 x 325 mm Weight: 3.7 kg

Environmental Conditions

Operating temperature: +5°C to +35°C Operating humidity: 25% to 85%, no condensation -20°C to +60°C Storage temperature: Storage humidity: 25% to 85%, no condensation

Included Accessories

Stereo Audio Cable: USB Cable: AC Cord: SD door screw: 2 Retainer: 1 Operating Instructions: CD-ROM for multi-language DFUs & DMP Mark Editor software: 1

Optional Accessories

RC-F400S* RC600PMD

Other Information

Carton Size (W x H x D): 593 x 198 x 464 mm Carton Weight: 6.0 kg Country of Origin: Japan

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*Updated firmware will be released in Oct. 2010.

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