

DENON
PROFESSIONAL

Denon Professional
Professional Playback Technology



Solid State Media Players



Professional Blu-Ray & DVD Players



CD Players/Changers

DENON
PROFESSIONAL

www.dm-pro.eu

Design and specifications are subject to change without notice. ©2009 D&M Professional. All rights reserved.



Drawing on our trusted 25-year heritage in industry-leading playback technology, the latest Denon Professional equipment enable contractors and consultants to replace traditional media devices with high-quality media playback products that offer superior reliability and maintenance-free operation under the most challenging conditions.

Contents

Audio Recording & Playback	
DN-F650R Solid State/ USB Recorder	5
DN-F450R Professional Network CD Player	6
DN-F400 Solid State Audio Player	7
DN-F300 Solid State Audio Player	8
DN-C640 Professional Network CD Player	9
DN-C635 Professional CD/MP3 Player	10
DN-C620 Rack mount Professional CD Player	11
DN-C615 Professional CD/MP3 Player	12
DN-C200P Five-disc carousel model with CD and CDR, MP3 and WMA	13
DN-C110P Installation CD Player	14
DN-U100P Installation FM & AM band Tuner	15
Video Playback	
DN-V500BD Blu-ray/DVD/CD Player	17
DN-V210-V310 Professional DVD Player	18
DN-V110 DVD Player	19
Amplifiers	
DN-A7100 AV Surround Preamp	21
DN-A300M Integrated Mic Mixing Amplifier	22
DN-A100P Installation Stereo Integrated Amplifier	23

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 SPDIF 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
- ±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

Audio Recording & Playback

USB SD RS232



DN-F450R | Solid State Recorder

The DN-F450R offers a simplified, cost competitive solid state recording and playback capability. Derived from the DN-F650R, the half rack size unit provides for recording and playback to and from SD and SDHC flash memory cards, with USB connectivity to PC for file management and transfer. Balanced analogue inputs on XLR are featured alongside unbalanced I/O. Stereo and mono audio channels are simultaneously available, and PCM WAV and MP3 file formats are supported, with the same sample rate and bit rate selectivity as the DN-F650R. Serial and contact closure remote control are supported, and a headphone out with volume control is included. Selectable playback modes, power on auto play, marking and mark search, audible quick search, and easy file search with the front panel jog wheel are all featured.



Rear panel

Features

- Recording to a SD/SDHC card
- Supports WAV (PCM) and MP3 format
- Half of 19 inch rack mountable, 1U size
- OLED display
- Balanced and unbalanced audio input
- Serial Remote (RS232)
- Contact closure remote control (Foot Pedal Remote)
- Connecting to PC via USB
- Marking and Mark search
- Audible Quick Search • Various playback modes (Single/Continuous, Repeat, Random)
- Power On Auto Play
- Easy file search with Jog Wheel
- Headphones with Level Control

MP3 SD RS232



DN-F400 | Solid State Audio Player

Elevated from a standard audio playback device, the DN-F400 is a 1U/HE, half-racksize unit designed for background music, message on hold, repetitive messaging, crisis management, or any application requiring audio to be running continuously or triggered at a moments notice. The DN-F400 features balanced/unbalanced outputs and is also controllable via RS-232C and GPIO (General Purpose Input/Output), making it perfect for amusement parks, retail outlets, police stations, public transportation, hospitals, hotels, restaurants, airports, museums, art galleries or anywhere a repeated audio announcement is needed.

RC-F400S | Remote Controller

The optional RC-F400 Remote Controller features a large LCD display and enhances the DN-F400'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 productions like sporting / performance events, radio, television and theatres.



Adding the RC-F400 to any DNF400 makes it a simple, cost-effective alternative to expensive radio and theater Sound FX systems.



Rear panel

Features

- Compact 1/2 rack 1U/HE chassis
- Plays uncompressed WAV (44.1 / 48 kHz) and MP3 files
- Media playback mediums include both SD/SDHC cards (up to 32GB)
- Simple play mode selection
- RS-232c and GPIO control
- Random, Repeat Dir., Repeat All play modes
- Power-on Play
- Program playback via .m3u file
- Next / Re-Cue finish modes
- Balanced (Phoenix-type) and unbalanced audio outputs
- HP jack with level control
- Securable SD card slot
- Bright OLED display
- Removable rack kit included

MP3 IR SD USB

NETWORK MP3 IR RS232



DN-F300 | Solid State Audio Player

This new player further emphasises our commitment to providing consultants and contractors with digitally-based, solid media products that feature no moving parts, with high reliability and maintenance-free operation under the most challenging conditions.

All of the advanced features that have made Denon Professional famous for broadcast CD playback have been implemented in the DN-F300 and because of the robust and reliable solidstate media format, the DN-F300 is ideal for audio playback in a myriad of demanding applications, including Background Music (BGM), Fitness and Aerobics, DJ and Broadcast.

Housed in a compact 1U-rackspace enclosure, the DN-F300 offers contractors and system integrators a versatile solid-state audio player at an extremely cost-effective price point. The DN-F300 also has IR control and a microphone input, making it perfect for fitness and dance applications as well as background music playback. Additionally, the mic input has music ducking, which helps for paging in BGM applications. It also features ±16% pitch control, likewise ideal for dance and aerobics/fitness.



Rear panel

Features

- Compact and space-saving 1U/1HE chassis
- Plays uncompressed WAV (44.1 kHz) and MP3 files
- Media playback mediums include both SD/SDHC cards (up to 32 GB) and USB (thumb drives or self-powered HDDs)
- ±16% pitch control
- Tempo adjust
- Microphone input with independent level control and music ducking
- Random, Repeat Dir., Repeat All play modes
- A-B Repeat
- Next track select function
- Easy front panel file and directory navigation
- HP jack with level control
- Master level control
- Removable rack ears



DN-C640 | Professional Network CD Player

Introducing the Denon DN-C640, a fully specified Network Audio/CD player for use in all broadcast, installation and professional audio environments. The DN-C640 is a 1U rack-mount unit featuring a slot-load CD/DVD drive, able to read CDA, MP3, WMA, MP2 and PCM .wav files from CD or DVD media. It is also equipped with an inbuilt LAN port offering complete access to network audio files and remote control via a web based GUI. With balanced, unbalanced, SP-DIF and AES outputs, an RS 232 port, an IR receiver and a parallel remote port, the DN-C640 fits into any and all pro audio environments requiring the playing of CD and the versatility of network audio selection, locally or remotely. Additionally the use of DVD media and compressed audio files can result in days of playback accommodating the most demanding of users. The product is completed with a high visibility, fully-featured fluorescent display and large backlit transport controls.



Rear panel

Features

- Network connectivity and web browser interface
- Supports CD-DA (.cda), WAVE (.wav), MPEG-1/2 Layer III (.mp3), MPEG-1 Layer II (.mpg), Windows Media Audio (.wma)
- Slot-in CD/DVD drive
- +/- 12% Pitch control
- Quick Replay feature
- End Monitor and User-selectable Finish Mode features
- Cue to Music (with dedicated button)
- Program playback
- Balanced Audio Output
- Reads CD-R/RW, DVD-R/RW, and DVD+R/RW discs
- 1U/1HE Rackmount Size

MP3 IR RS232



DN-C635 | Professional CD/MP3 Player

The durable DN-C635 CD player offers all the functionality of a high-end, installation-grade professional unit at a very affordable price. Professional outputs, MP3 compatibility, CD TEXT, and many other valuable features give users the audio quality and flexibility they need for virtually any application. A friendly user interface combined with RS-232, contact closure, and infrared remote control capabilities provide exceptional control and ease of use.



Rear panel

Features

- Shock-proof memory
- Pitch control
- Instant start
- Auto cue
- Play and finish modes
- CD-R/RW playback compatibility
- XLR outputs
- MP3 playback
- Fader start
- RS232
- GPI
- CD TEXT

MP3 IR RS232



DN-C620 | Rack mount Professional CD Player

The DN-C620 represents our latest generation of broadcast CD players.

Built on the success of the award-winning DN-C640, the new DN-C620 is, at the heart of it, a full-featured, rackmountable CD player. But note the word "Professional" in the name. With a combination of flexible file formats and comprehensive outputs, this machine takes the "CD player" concept to new heights.



Rear panel

Features

- IR, RS-232, GPIO and Front panel controllable
- Additional IR Flash input (back-panel mounted, 1/8" connector) allows basic wired control functions: Play, Pause, Cue, FWD, FF, Skipback, Track Jump +/-, and Stop
- Balanced (XLR - with Trim Control), Unbalanced RCA (Fixed and Variable level) analog outputs
- Coaxial (S/PDIF - RCA) or AES/EBU (XLR) digital outputs
- Can output ISRC and POS codes (from Commercial discs) as well as CDText and ID-3 tag information via RS-232 for stations broadcasting like information in HD-Radio or Satellite formats
- New SHIFT mode improves usability and front-panel navigation for easier, error free operation
- Slimline 1RU rack mountable chassis with slot-in disc mechanism

MP3 IR



DN-C615 | Professional CD/MP3 Player

The DN-C615 offers users all the benefits of a professional-quality single-tray CD player at a very economical price. With up to 99 tracks of program play, the DN-C615 offers a wide range of valuable features, including fitness/ dance studios, schools, small radio stations, and similar venues looking for a high-quality yet affordable CD/MP3 player.

Features

- CD-R/RW playback
- Instant start
- Direct track select buttons
- CD Text
- Auto cue
- Program play
- Pitch control
- MP3 playback
- 2U



Rear panel

MP3 IR



DN-C200P | Five-disc carousel model with CD and CDR, MP3 and WMA

The latest in a long line of industry standard CD changers, the DN-C200P is a five-disc carousel model with CD and CDR, MP3 and WMA compatibility, infrared control and random, program and repeat playback modes. Offering improved reliability over cartridge systems, the DN-C100P is ideal for long-term installation into retail and leisure environments.

Features

- CD/CDR playback
- Playback MP3 and WMA (Windows Media Audio) files from CD-ROM
- IR Control
- Optical & Coaxial Digital Outputs
- Program playback
- Random playback
- Repeat playback (one track, one disc, all discs)
- 3U/HE 19" Rackmount kit supplied



Rear panel

MP3 IR

IR



DN-C110P | Installation CD Player

The DN-C110P is the entry level CD player in the Denon Professional P Series. Designed specifically for use in commercial installations, from bars and clubs to education and the corporate sector, the Denon Professional DN-C110P replaces the popular DN-C100P model, with which it shares the large 3U rackmountable form, operational simplicity, assured reliability, and legendary Denon sound quality. The fascia maintains the same simple uncluttered control layout and large central display, for ease of operation and use in ambient lighting conditions.

A new feature of the DN-C110 is its ability to playback MP3 and WMA music files from CD/CDR/CDRW media.

Other features include IR remote control, program play, random play, and disc and track repeat modes.

Features

- CD/CDR playback
- IR Control
- Optical Digital Output
- Program Playback
- Random Playback
- Repeat Playback (track & disc)
- MP3/WMA file playback via CDROM
- 3U/HE 19" Rackmount kit supplied



Rear panel



DN-U100P | Installation FM & AM band Tuner

The DN-U100P builds on the success of Denon's long line of affordable easy to use tuners. Offering FM/AM bands, 100 presets and auto/manual tuning, the 2U rackmountable tuner is a simple and reliable solution for background music and radio monitoring applications.

Features

- FM & AM band tuner
- 100 presets – store up to 100 stations in banks of 10 (1-10, A-J)
- IR Control (supplied remote)
- Auto & Manual tuning
- RDS (radio data system) displays the station name etc
- RT (radio text) displays information such as track title if broadcast
- Last Function Memory: if power is lost when the DN-U100 is switched back on it will always return to the last tuned station
- 2U/HE Rackmount kit supplied



Rear panel



HDMI IR SD RS232



DN-V500BD | Blu-ray/DVD/CD Player

The new DN-V500BD is a Profile 2.0 BD player complete with an Ethernet port for BD-Live functionality and firmware updates. In addition to standard Blu-ray discs, the DN-V500BD is capable of playing back a myriad of formats including AVCHD and DivX HD video files which are native to many of today's camcorders.

At the heart of the DN-V500BD is Anchor Bay Technologies VRS processing which upscales standard DVDs to full 1080p / 24f output for far better standard definition video playback. Dolby Plus, Dolby TrueHD and DTS HD Master audio are all supported and can be output through the DN-V500BD's HDMI, digital audio, or unbalanced analogue audio outputs. Controlling the DN-V500BD can be accomplished using the included IR remote control or via its RS-232c serial interface.



Rear panel

Features

- **Compatible discs**
 - Blu-ray – BD-Video, BD-RE (ver.2.1 - recorded in BDMV), BD-R (ver.1.1/1.2/1.3 - recorded in BDMV)
 - DVD – DVD-Video, DVD-RW, DVD-R, DVD-R DL
 - CD – CD-DA, CD-RW, CD-R
 - Kodak Picture CD
 - DTS-CD (5.1 Music Disc)
- **Additional Formats**
 - AVCHD, DivX HD, MP3, WMA, JPEG
- **Front panel SD/SDHC card slot**
- **PIP Bonus View capable**
- **Chapter, Title, Track, Group, All, and A-B repeat modes**
- **Program playback (Audio and JPEG formats)**
- **Title / Chapter, Track, Time, and Marker searching**
- **Defeatable screen saver**
- **HDMI, Component, S-Video, and Composite video outputs**
- **IR, RS-232c controllable**
- **3U/HE removable rack kit included**



DN-V210-V310 | Professional DVD Player

The DN-V210/DN-V310 DVD Players are equipped with standard functions of most DVD Players and includes advanced functions required by professional applications, such as High Definition Multimedia Interface (HDMI), Hide OSD, Change Wallpaper, NTSC/PAL Conversion, Auto Play and various Repeat modes. These advanced DVD players are suited for Commercial, Educational or any Public Installation that requires a Professional DVD Player. The DN-V310 includes a RS-232C serial port for added control flexibility.

DENON Professional provides a wide range of control interface accessories for the DN-V310. Visit www.dm-pro.eu for further details.

HDMI IR RS232



Rear panel

Features

- DVD / DVD-R, CD, VCD Playback
- MP3, WMA, DivX Playback
- (HDMI) High Definition Multimedia Interface
- NTSC / PAL Conversion
- IR Control
- Optical / Coaxial Digital Output
- Hide OSD
- Change Wallpaper
- Auto Play
- High precision 96 kHz 24-bit D/A converter
- Key Lock
- RS232c Serial Remote Control (DN-V310 only)
- 2U/HE Rackmount kit supplied

Accessories

DVD-D9RC

Interface permits nine 'Normally Open' momentary action switches the control of a DN-V310 player

DVD-DSPRX

Interface connects to a DN-V310 player and controls the playback of inserted media

DVD-DWRC

Controller for DVD, CD Audio or VCD media on a DN-V310 player

DVD-DSYN6

Permits the PLAY synchronisation of 2-6 Denon V310 players using DVD media



DN-V110 | DVD Player

New to the DN-V110 is the 108MHz/12-bit video DAC with full 1080p video upscaling, providing for full HD specification output of standard definition DVD signals, with a resultant significant increase in picture quality when connected to HD Ready and Full HD displays. Upscaling is performed to 1080p, 1080i or 720p, as determined by the specification of the connected display. To match the picture quality, a 192kHz/24-bit Burr Brown audio DAC provides high resolution audio decoding; additionally coaxial (S/PDIF) and optical digital audio outputs enable decoding of surround sound audio formats when connected to an AVR with the relevant Dolby and DTS circuitry. High quality CD playback – whether for PCM, MP3 or AAC encoded audio – is also provided by the high spec digital / analogue audio circuitry.

Video connectivity is improved with the introduction of HDMI connectivity to HD specified displays, alongside RGB Scart, S-video, composite or component video outputs; the latter offering progressive scan. NTSC / PAL conversion is also included, as is 'squeeze mode' for displaying 4:3 picture ratio signals via HDMI. Discreet video circuitry and separate analogue and digital circuit boards ensure interference-free signal paths for video and audio.

HDMI IR



Rear panel

Features

- Video scaler to 480p, 720p, 1080i and now Full-HD 1080p
- Front panel HDMI select button
- 12-bit 108 MHz high-specification Video DACs for high picture quality
- 24-bit / 192kHz Burr Brown PCM1782 Audio DACs for dynamic range
- DivX ULTRA Certified (Version 3.11, 4, 5, 6. VOD video content)
- Detachable mains lead
- HDMI video output, with HDMI Black Level enhance and HDMI multi-channel audio transfer
- Reinforced chassis, transport base and top plate to minimise and absorb harmful vibration
- Separate analogue & digital circuit boards to reduce cross-interference, plus discrete Video Circuitry
- DTS, PCM and Dolby Digital data output.
- MP3 & MP3 VBR/WMA/JPEG Playback.
- Random Play and Program Play.
- 2U/HE 19" Rackmount kit supplied



HDMI IR RS232



DN-A7100 | AV Surround Preamp

The DN-A7100 AV pre-amplifier is compatible with most advanced surround sound formats, and because of its unique design, the DN-A7100 is ideal for any installation that requires high-quality, channel separated audio outputs - in particular those installations where adapting unbalanced RCA preamp outputs is completely unacceptable, or the extra weight of unused consumer power amps is not needed. Many installations now require surround sound decoding - from big installations with many multiple amps driving line array systems to small boardrooms and private theatres with active monitor systems, the Denon Professional DN-A7100 is the most affordable, professional option.



Rear panel

Features

- 7.1 Balanced Line Level XLR Outputs (+4dB/-10dB - switchable)
- Balanced XLR Auxiliary Audio Input (+4dB/-10dB - switchable)
- HDMI Video Switching (ver. 1.1) (2 sources)
- 192kHz/24 bit Crystal® DAC for all 8 Channels
- 32-bit Digital Surround Processing Chipsets
- Set-up menu via Video Outputs (Composite, S-Video, Component)
- Video Convert Feature (Composite/S-Video to Component)
- Dolby Digital EX, Dolby Digital, DTS ES (Discrete 6.1, Matrix 6.1, Neo:6) Decoding
- Dolby Pro Logic IIx (Movie, Music, Game)
- Circle Surround II (Movie, Music, Mono)
- HDCD Decoding
- RS-232C Terminal for System Control

MIC IR 110W



DN-A300M | Integrated Mic Mixing Amplifier

The Denon DN-A300M stereo installation amplifier replaces the renowned PMA-100M, a favourite with commercial installers. Like its predecessor, the DN-A300M offers a high quality solution for small installations, and provides increased amplifier power over the existing model range. The new model features mic input mix and Auto Gain Control, coupled with 110 watts per channel of power amplification. The mic level control enables manual mixing of a microphone signal with other audio input sources, while Mic Auto Gain Control and Music Auto Mute control enable preset level reduction or muting of music programme material when using a microphone. LED indicators show on/off status for the mic mix, Auto Gain Control and music mute functions. The input selector enables switching between AUX, TUNER CD, PHONO and TAPE 1 and 2 sources, from the extensive array of input connections on the rear panel. Selectable A/B speaker circuits are switchable from the front panel, with LED indicators showing which circuit is active. The DN-A300M provides classic Denon sound and build quality at an affordable price point, and is ideal for small commercial AV applications, in numerous types of venues and environments.



Rear panel

Features

- 2 x 110w Power Amplifiers
- A/B Speaker On/Off buttons
- 6 - unbalanced RCA audio inputs with grounded phono inlet
- 2 - unbalanced record outputs
- 1 - unbalanced Pre-out for connection to external amplification
- Front-panel mounted 1/4" MIC jack allows for paging and announcements
- 3 back-panel mounted AC inlets for powering additional equipment like a CD player / changer or AM / FM / Satellite Radio Tuner (1- unswitched, 2-switched)
- Multiple MIC mixing options including Auto Music Mute and MIC mix
- Fully Adjustable MIC level or automate the MIC level with the DNA300M's internal AGC MIC circuit
- Bass and Treble adjustments with Loudness switch
- Control all features of the product (and other Denon Pro products) with the included IR remote
- 3U Rackmount kit included

MIC IR 70W



DN-A100P | Installation Stereo Integrated Amplifier

The DN-A100P is the P Series' entry level amplifier for commercial installation. Uncomplicated layout and simple operation, along with 70w per channel power output make it an entirely suitable option for two channel amplification in pubs, bars, shops, gyms and other small- to medium-sized av environments..



Rear panel

Features

- 70w per channel (4ohms)
- 2 Speaker circuits with A/B switching
- IR Control (supplied RC1022 IR controller)
- 5 Line inputs – RCA/ Cinch (remote switching)
- 2 Tape circuits (in/out)
- Phono input (mm)
- Tone controls
- 3U/HE 19" Rackmount kit supplied