

High performance DVD player featuring HDMI digital audio/video output, with 1080p video output via HDMI for the highest possible picture quality, as well many other outstanding functions.



## 1 High Picture Quality

- HDMI (Ver. 1.1) output including 1080p video out
- Noise Shaped Video
- Faroudja DC Di processing
- Progressive Scan (NTSC/PAL)
- 216MHz/12-bit video DAC
- Numerous Video Picture modes

## 2 High Sound Quality

- DVD-Audio and Super Audio CD playback
- 192kHz/24-bit audio DAC
- Audio Direct mode

## 3 Advanced Facilities

- MP3, JPEG, DivX<sup>®</sup> and WMA playback
- Bass Management
- RS-232C interface for a touch-panel controller
- Wide screen mode selection

### Main Specifications

Disc Compatibility	DVD-Audio/Video, Super Audio CD, SVCD, VCD, Audio CD, Picture CD, MP3, JPEG, DivX and WMA
Disc Compatibility	DVD+RW/+R, DVD-R/-RW, and CD-R/RW

### VIDEO PERFORMANCE

Video D/A Converter	216 MHz/12-bit
S-Video Output	Y 1 Vp-p/75 ohms C 0.3 Vp-p/75 ohms
Component Video Output	Y 1 Vp-p/75 ohms Pb 0.7 Vp-p/75 ohms Pr 0.7 Vp-p/75 ohms

### AUDIO PERFORMANCE

Audio D/A Converter	192 kHz/24-bit
Signal-to-Noise Ratio	115 dB
Dynamic Range	105 dB
Frequency Response	DVD (96 kHz sampling) 2 Hz–44,000 kHz DVD (48 kHz sampling) 2 Hz–22,000 kHz SVCD (48 kHz sampling) 2 Hz–22,000 kHz SVCD (44.1 kHz sampling) 2 Hz–20,000 kHz CD/VCD (44.1 kHz sampling) 2 Hz–20,000 kHz
Harmonic Distortion + Noise	0.002%

Dimensions (W x H x D)	435 x 87 x 285 mm 17-1/8" x 3-7/16" x 11-3/16"
Weight	3.3 kg; 7.3 lbs.

**d-cinema** "d-cinema" is the slogan of Yamaha A/V products and technology, reflecting our focus on digital technology and our leadership in creating and refining digital home theater.

**High Picture Quality**

**HDMI Output (Ver 1.1) with 1080p**

HDMI (High Definition Multimedia Interface) output allows the DVD player to transfer digital video and audio signals directly to an HDMI equipped monitor or projector, instead of having to convert them to analog. 1080p video signals can be output, providing the most detailed high definition picture quality currently available, as well as 480p, 576p, 720p and 1080i video signals.



**Noise Shaped Video™ and DCDi Progressive Scanning**

This technology, from Analog Devices, uses oversampling and advanced techniques such as multi-bit sigma-delta processing and bit-shuffling to improve converter performance by moving converter noise to an area of the spectrum where it can be removed by an analog filter. This improves the accuracy of signal representation, allowing images to be displayed at much higher resolutions.



Other advanced technologies used to maximize image quality are Faroudja DCDi Processing, Motion Adaptive Noise Reduction, Cross Color Suppression, Aspect Ratio Conversion and TrueLife Enhancer.



**Progressive Scanning (NTSC/PAL)**

Progressive scanning provides maximum resolution for a smoother, filmlike image when viewed on a high definition TV or large screen. This player offers progressive scanning of both NTSC and PAL signals.

**216 MHz/12-Bit Video DAC**

This new high performance video DAC ensures superior image quality with all video sources.

**High Sound Quality**

**DVD-Audio/Super Audio CD Playback**

This player is compatible with both DVD-Audio and Super Audio CD. These multi-channel music formats provide a surround sound music experience that is much more natural and lifelike than normal stereo.

**Exceptionally Good Sound Quality**

This model delivers sound quality that is superior even to some more expensive players. It uses a high performance 192kHz/24-bit audio DACs.

**Audio Direct Mode**

Selecting the Audio Direct mode cuts the video circuitry out of the signal path, so there is no chance of it affecting the sound quality. The front panel illumination is also turned off to prevent noise interference from the LCD.

**Advanced Facilities**

**MP3, JPEG, DivX® and WMA Playback**

This player will play discs recorded in the MP3 (audio), JPEG (images), DivX® (video) and WMA (audio) formats.

**Bass Management**

This player provides Bass Management processing and a subwoofer/bass management output terminal. Bass management is important for DVD-Audio and Super Audio CD multichannel playback, as it properly routes the bass frequencies for best performance from a multi-speaker home

theater system. With normal 2-channel (stereo) CDs, the bass frequencies are routed to the subwoofer, so you can enjoy "2.1" channel sound with more powerful bass.

**RS-232C Interface**

An RS-232C interface is provided so this player can be controlled via computer in a custom installation.

**On-Screen Display with GUI (Graphical User Interface)**

This model makes operation extremely simple by displaying a variety of clearly understandable GUI menus right on the TV or monitor screen. It's easy to select and adjust any desired function with the remote control.

**Wide Screen Mode Selection**

Two modes can be selected for optimum viewing on widescreen monitors via HDMI and component video outputs: Non-Linear Stretch and Pillar Box. Non-Linear Stretch helps minimize distortion of a 4:3 picture by trimming the top and bottom to make it closer to a 16:9 picture.

**Other Notable Features**

- Gold-plated terminals for all pin jacks
- Video picture mode: Brightness, Contrast, Hue, Sharpness, DNR, Gamma, Chroma Level, Chroma Delay and True Life
- Picture CD playback
- 3-step dimmer modes
- NTSC/PAL complete conversion
- Multiple repeat play
- Program play
- Screen saver
- Aluminum front panel
- Discrete remote control commands

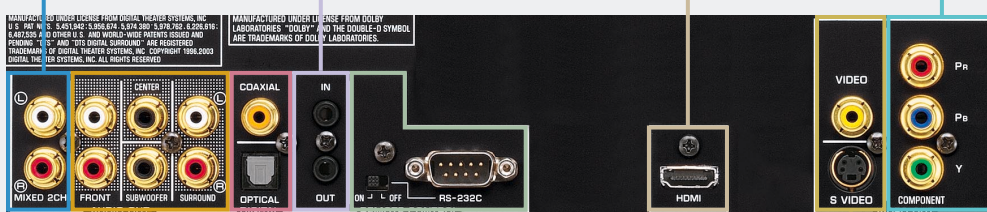
**Extensive Connections**

Mixed 2-Channel Audio Output Terminals

Remote Control In/Out

HDMI Output

Component Video Output Terminals (Progressive/Interface)



5.1-Channel Audio Output Terminals

Optical and Coaxial Digital Audio Output Terminals

RS-232C Interface

S-Video and Composite Video Output Terminals

\* Only compatible with discs that have been finalized when recording is completed. Some discs may not play due to disc characteristics or recording conditions.  
\*\* Includes recorded in VR format.

• HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC • "DCDi" is a trademark of Faroudja, a division of Genesis Microchip Inc. • NSV is a trademark of Analog Devices Inc. • DivX and associated logos are trademarks of DivX, Inc. and are used under license. • Product designs and specifications are subject to change without notice.