

# marantz®

## DVD PLAYER

### DV8400



Black available

### DV8400 THX Select DVD player

## NEW

Compatibility with virtually all of today's digital video and audio disc formats, makes the DV8400 universal disc player the ideal solution for upgrading your system for music and movies in stereo and multi-channel surround sound. It plays DVD-A, DVD-V, DVD-R/RW, SACD and CD-R/RW discs, including MP3 files. Inspiring video performance is guaranteed by full THX-Select certification and a fantastic NSV precision video 12-bit/108MHz digital-to-analog converter for video processing. Utilizing the available DVi-D with PAL Progressive Scan provides an unsurpassed superb picture quality via your HD compatible screen or projector. Audio excellence is assured with a 24-bit/192kHz converter, the unique Marantz HDAM and a separate power supply for the audio section.



R A N G E S E R I E S

because music matters

## Features:

- THX Select Certified DVD player
- High quality playback of DVD-V, DVD-A, SACD, VCD, CD, MP3, DVD-R/RW, DVD+RW
- PAL/NTSC Progressive scan
- Noise Shaped Video
- DVi-D digital video output
- High grade audio components
- Copper plated chassis
- HDAM for all 6 channels
- 192kHz/24-bit DAC for all 6 channels

## Benefits:

- Ensures that the DVD player brings you the best visual and sonic performance
- Ultimate disc compatibility; regardless which disc you put in, this dream machine will play it
- Offers improved picture resolution and eliminates virtually all motion artifacts
- Provides the most accurate signal representation and enhances the picture quality.
- For a high quality, full bandwidth, uncompressed digital video signal transmission to a HD display or projector like the Marantz VP-12
- To ensure the renown premium Marantz sound reproduction
- To minimize electromagnetic interference, which can deteriorate the audio and video output quality
- Achieving a more dynamic, accurate and detailed sound reproduction regardless the amount of channels
- Faithfull and accurate high quality performance for multichannel playback

## Technological glossary:

### Unleash your passions

To enjoy all of the video and audio materials, the DV8400 provides ultimate versatility with high quality video and audio performance. It plays SACD, DVD-Audio, and DVD-Video with Dolby Digital and DTS surround sound in either 2 channel or multi channel formats. It also plays DVD-R/RW and CD-R/RW and is even compatible with MP3 formats. For the ultimate in video performance the DV8400 features an Analog Devices' NSV Precision Video 108-MHz/12-bit video DAC. For both PAL and NTSC source material progressive scan is available ensuring higher resolution pictures. This is the player that embodies high quality convenience.

### Build in multichannel decoders

In order to benefit from the premium class analogue audio performance from the DV8400 we have incorporated DD, DTS and MPEG multichannel DVD-V audio decoders. Dolby Digital is an advanced form of digital audio coding that makes it possible to store and transmit high-quality digital sound, far more efficiently than was previously possible. Apart from the Dolby Digital information, DVD software can also contain Digital Theater System (DTS) audio information. The compressed digital information offers five fully independent high quality channels, together with a sixth subwoofer channel. DTS offers superb live experience and adds breathtaking effects to film.

### Multi-channel SACD playback

Enjoy the fabulous world of Multi channel audio! Finally you can enjoy an incredible live-experience in your home as it was in reality. Not only the total ambiance is reproduced, but also the natural 'sound' of the instruments is being preserved. SACD is based upon the DSD conversion principle that links excellent specifications like a frequency range of 100 kHz and a dynamic range of 120 dB, to superb sound quality. It adds essential resolution and detail to the Multi channel audio setup, necessary for accurate correlation between front and rear channels. This combination of top-end audio performance and Multi-channel sound will give you a sensation that will totally change the way you experience music.

### DVD-Audio

DVD-Audio is one of the latest format of high standard audio. It provides ultimate 2ch performance of 24bit/192kHz or 24bit/96kHz in six channel format. The DV8400 will allow its owner to benefit from the full performance of DVD-Audio.

### Progressive scan for PAL and NTSC

Compared to a conventional interlaced picture, progressive scanning creates a picture signal with double the scan lines, resulting in a noticeably sharper image. The progressive image offers higher picture resolution and eliminates virtually all motion artifacts. Even on large screens, the progressive scan lines are barely noticeable and picture flickering is greatly reduced, so you can enjoy extended viewing without eye fatigue. The progressive conversion of the DV8400 is optimized for the high resolution and low noise of the DVD-Video format for both PAL and NTSC software. This enables the unit to preserve DVD-Video picture quality for display on all screen sizes from direct-view CRT to projectors. NTSC Progressive Scan is provided on both the DVi-D as well as on the component output. PAL Progressive will be available via the DVi-D interface.

### NSV precision video 108mHz / 12-bit video DAC

The DV8400 uses Analog Devices' NSV Precision Video 108-MHz/12-bit video digital/analog converters for very high-quality picture reproduction. As a continuation of Analog Devices' development of enhanced picture quality, in a wide variety of applications and for many different video standards, the technology of Noise Shaped Video has been developed. This technology allows video images to be displayed at resolutions and lower effective signal to noise ratios well beyond that which would be expected from the data converter by making use of the latest technological advances. The improvement takes place in parallel with the simultaneous move to support more and more higher definition video standards including progressive scan and HDTV.

### DVi-D interface

If you want the best you need a digital video connection. Whether you're watching a ball game or an action-packed movie in high definition, without question, the picture quality is stunning. It could be better, though. For high definition all-digital video to look its best, the data must be transferred from your digital source to your HD display or projector in pure digital form. In order for your DVD player to do its job, it has to convert video data from the digital domain to analog, and then back to digital again. This conversion process can cause high frequency attenuation, and loss of resolution and detail. The DVi-D output on the DV8400 is a pure digital high bandwidth video interface. What you see on your screen is exactly what was digitally recorded. You'll enjoy a razor sharp picture with incredible detail and vibrant, natural colors.

### Customized components

Every Marantz product is designed with a fine ear and eye for details. The designers have to know the characteristics of every component. On paper the component might look excellent but the result may fall short of the combined design expectations. Therefore Marantz collects vast amounts of information upon specifics component performance capabilities. Marantz selects the appropriate components for the specific design application. The sonic result is then critically acclaimed by international reviewers. In other cases it's simply not possible to use standard components that meet the high Marantz standards. These components will then be specially made for Marantz only in co-operation with the Marantz engineers.

### HDAM on all 6 channels

Audio devices are usually equipped with Op-Amps (operational amplifiers) for which Integrated Circuit (IC) are commonly used. Unfortunately these IC's do not match the very high requirements of Marantz. Marantz developed it's own discrete circuit boards to replace the IC's. These HDAM's consists of discrete surface mount components with short mirror image L/R signal paths. These devices are doing exactly the same thing as the Op-Amps, but outperform the regular IC Op-amps dramatically in terms of the Slew Rate, resulting in a much more dynamic, accurate and detailed sound.

### A touch of Marantz

The strenght of each Marantz design can be found in the attention to detail and cohesiveness of the different elements. The DV8400 is a clear example of benchmark engineering and craftsmanship and features a number of Marantz sound enhancements. The DV8400 DVD player is built on a copper plated chassis. It incorporates leading edge digital signal processing, along with a Crystal 192 kHz/24-bit D/A converter in each of the channels. All of the digital, analogue and control circuits are separated and shielded in their own enclosures to prevent cross-talk and other unwanted interference. Independent power supplies for the FL display, digital and analogue sections secure maximum separation, clarity and dynamics. This design configuration is capable of a clear and powerful reproduction of the most demanding action movie soundtracks and full range (multi channels) music discs.

### D.Bus & RS232c

To optimise equipment in terms of ease of use, Marantz has designed the D.Bus system. Individual devices inform each other, in order to automatically tune to the customers demands. At the same time received remote control commands are communicated via this bus. This enables equipment without IR-receiver, like a cassette deck or tuner, to be controlled via a Marantz Remote control.

## Bypacked Accessories

- User manual
- Remote control
- Batteries
- AV cable
- D.Bus cable
- Power cable

### RC8300DV





## DV8400

## Preliminary Specifications

FEATURES		INPUTS/OUTPUTS		GENERAL	
MULTICHANNEL/SURROUND		VIDEO		Color:	Black / Silver
THX Certification	Select	Composite Out	2	Metal Front Panel	•
Built-in Decoder	DD/DTS/MPEG	RS232C	•	Remote Control	RC8300DV
Digital Out	DD/DTS/MPEG	S-Video Out	1	Power Consumption	19W
Virtual Surround	•	Component Out	1	Detachable Power Cable	•
		Scart (RGB)	1	Maximum Dimensions (W x D x H)	440 x 89 x
		DVi Link	DVi-D w/HDCP		311 mm
		D-Bus In/Out	•	Weight	6.5 kg
		Gold Plated Cinch	•		
		AUDIO			
		Scart	1		
		Analogue Out (Cinch)	1		
		5.1 Channel Out	•		
		Digital Coaxial Out	1		
		Digital Optical Out	1		
		Gold Plated Cinch	•		
ENHANCEMENTS		SPECIFICATIONS			
Pal 60 Conversion	•	Video DAC	108MHz /12bit		
Progressive Scan	NTSC (/ PAL prepared)	Audio DAC	192kHz / 24bit		
CD Compatibility	CD,CD-R/RW,SACD	Audio DAC IC	CS4392 x 3		
MP3 Playback	•	Dig. Audio Freq. Response	4Hz-88kHz (DVD		
ImageDisc Compatibility	-		fs:192kHz)		
VCD Compatibility	VCD 2.0/SVCD	Signal to Noise Ratio	125 dB		
DVD Compatibility	DVD-V/A,DVD-R/RW	Dynamic Range	110 dB		
	(VIDEO & VR)	Total Harmonic Distortion	0.000951%		
HDAM	• (copper)				
Video On/Off	•				
Display On/Off	•				
Dedicated High Grade Audio Power Supply	•				
Power Transformer	EI				
High Grade Audio Components	•				
Customised Components	•				
Copper Plated Chassis	•				
System Blocks Shielding: Metal/Copper	•/-				
Double Layer Bottom Plate	•				
OTHERS					
Selectable DVi Output Level (normal/expand)	•				
Auto Aspect Ratio	•				
Still Picture	•				
Multi Language OSD	•				
Multi Channel Down MixMPEG2 / DD / DTS /					
	DVD-A				
Video Adjustment	•				

Design and specifications are subject to change by Marantz without notice

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