marantz®

VIDEO PROJECTOR

VP-12S3



NEW

VP-12S3 DLP projector

It is our continued strive to offer superiour home cinema projection, with the Marantz VP-12S3 you will enjoy a truly superiour bigscreen presentation. The latest Texas Instruments HD2+ panel (1280 x 720) has been incorporated and the more powerful 200W DC lamp generates a significantly higher light output, convenient in less darkened environments. The VP-12S3 delivers 20% increased brightness without sacrifying the contrast ratio. Two component inputs and a back-lit remote control provide improved flexibility of this already extremely versatile DLP projector. If only the best is good enough, the VP-12S3 will continue to amaze you with incredibly faithful, accurate and uniform video fidelity.

COMPONENT VIDEO INPUT

S-VIDEO IN/OUT

RS-232

DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

DCDi™ byFAROUDJA

DIECAST CHASSIS

DC TRIGGER

DVi-D

because music matters

PREMIUM SERIES

Features:

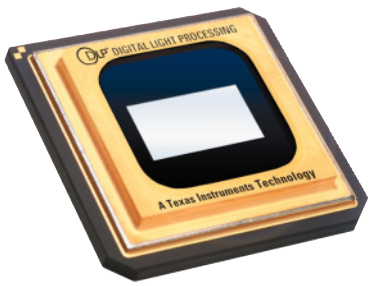
- Latest HD2 FMV panel
- Faroudja Video Processing
- Custom made Minolta Optics
- High speed, large color wheel
- Extensive picture adjustment possibilities
- Noise cancellation elements; aluminum construction with a specially engineered path for the air flow and sealed color wheel motor
- Sealed optical path and double sealed cabinet structure
- Optional long throw lens

Benefits:

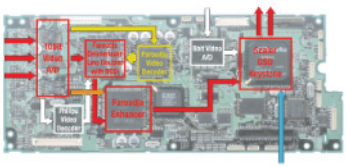
- Displays PAL progressive and HD sources with breathtaking sharpness, detail and contrast.
- Award winning video processing technologies, delivering stunning video performance for all video sources (component, S-video and composite).
- Reliable, highly accurate lens for the best edge to edge linearity and image quality.
- Highly accurate, faithfull color reproduction and unparallelled color saturation.
- Adaptation to personal taste, environment and sources enable you to have reference home theater video quality under all circumstances, including flexibility in installation
- Superior low noise operation characteristics
- Zero light spill and the convenience of not having to replace filters
- For optional placement behind the viewer in larger rooms, resulting in further loss of fan noise and visual intrusion.

Technological glossary:

DLP Technology
Texas instruments DLP technology has caused a small revolution in the home cinema world, which will continue with the introduction of the HD2+ chip incorporated in the VP-12S3. Accompanied with a 200W SHP lamp assembly a 20% improved brightness is realised. The 16:9 panel has got substantial advantage over the 4:3 panel especially for handling widescreen sources. Not only for the film originated materials, TV is also moving towards 16:9 aspect ratio with HDTV in the scope. One of the clear advantages of the 16:9 panel is that it is free from the 'Halo Effect' which caused by 4:3 DMD panel when it is projecting other than 4:3 image.

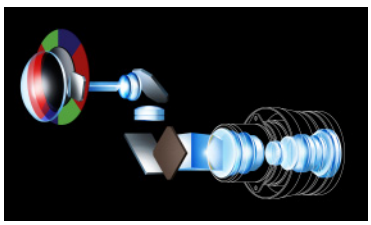


Faroudja Processing
In the VP-12S3, Marantz still uses the best in video processing, by means of a three Faroudja chipsets. From this Grammy Award winning company in the VP-12S3 utilises the FLI2000 video decoder, which has a famous comb filter with cross-colour suppression and two lines Time Base Corrector for composite sources. It also has the FLI 2200 DCDi chipset for state-of-the-art, new motion adaptive deinterlacing without introducing motion artifacts and jagged edges, specially suited for its handling of video based material. Finally, it also uses the FLI2220 enhancement circuit. This circuit provides edge and detail enhancement without the deleterious side effects. These chipsets have been chosen for their 10-bit processing of video images as well as their incredible flexibility. Suffice to say that the VP-12S3 has the best video processing available today in an all-in-one product.

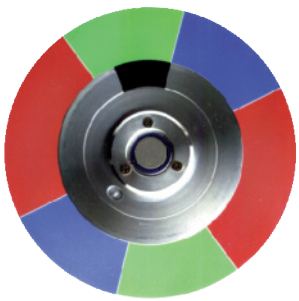


A 2 to 3 pull-down progressive scan circuit with advanced edit detection is used for the film originated source. Whatever the format of input signal, 702 x 480 interlaced, 1280 x 720 progressive, or 1920 x 1080 interlaced HDTV formats, it will be scaled to the native 1280 x 720 rate defined by the DMD panel in the VP-12S3.

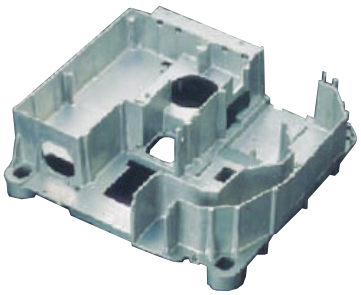
Minolta's Optics
Custom made optics by Minolta, long know for its camara and lenses for both professional and consumer markets, ensure to project best quality out from DLP projection. The VP-2S3 is featured with a custom ground and coated 14-element lens, specially designed with two elementary things in mind: contrast and image quality.
The VP-12S3 produces a vivid, accurate, and fine detailed images that can even be enjoyed in rooms that have less than ideal lighting control. The optical path is completely sealed from dust and smoke that exist in a typical home environment. For usage in a larger room a long throw lens is optional. This enables positioning in the back which will result in less fan noise and visual intrusion.



Large color wheel
The six segment, 98mm color wheel spins five times faster than the field rate of NTSC and six times faster on PAL source . Together with new internal masking technology, it creates flicker free images from a normal video source to the highest HDTV source.



Sealed optical path and silent construction
The chassis of the VP-12S3 is made of aluminum casting to prevent electro-magnetic interferences and



to provide a good grounding point for the electric circuitry. The path of the air flow is carefully engineered to supress the fan noise. This solid construction also works as a secondary sealing of the light path to ensure no light leakage. Noise cancellation elements such as the cabinet structure as well as sealing the color wheel motor make the VP-12S3 extremely quiet.

Extensive Controls for Flexible Installation
The VP-12S3 has a control section that was designed specifically with the high-end custom installer in mind. Not only are there discrete codes for every function of the projector, there are numerous ways to control it as well. In addition to the IR from either the front or rear panel, the projector can also be hard-wired for IR and even RS232C control. 2 DC triggers allow a screen to go up/down automatically by turning on/of the VP-12S3 and two panels to drop down on the sides of a 16:9 screen, whenever NORMAL is selected on the remote for watching 4:3 content.

Mounting
One of the most critical aspects to ensure the best results from the VP-12S3 is mounting it properly. To achieve a perfectly proportioned picture the exact throw distance needs to be determined. The FOCUS pattern function allows you to focus the image on the screen and position the projector properly by use of the lens shift, zoom control and throw distance.
If mounted above or below the screen, the then you will have to tilt up or down in order to have the image line up to the screen, in which case keystone correction will be needed.

Screens
The VP-12S3 has a tremendous versatility with regards to mounting, so either reflective or retro-reflective, front or rear projection is possible. With a 1.3 gain screen, the VP-12S3 has recommended light output for a 300 cm diagonal measurement. With the VP-12S3 the black level is extremely good. This allows the use of a true white screen for maximum brightness and contrast, if the room is non-reflective and as dark as possible.

Full compatibility for all sorts of video formats
The VP-12S3 accepts all kind of video formats. It is compatible with PAL, SECAM, NTSC, and HDTV. All of those signals can be feeded via Composits(CVBS), S-Video(Y/C), Component(YUV), and RGB. The VP-12S3 also accept computer signals from VGA to XGA and DVi digital video connection.

Bypacked Accessories

- User Guide
- Remote Control
- Batteries
- AC Power Cord
- Control Adapter cable (Mini jack to RCA)
- Scart - RCA plug Cable
- Lens cap

RC-12VPS3



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VP-12S3

Preliminary Specifications

FEATURES

OPTICS	
Projection Technology	DLP
Aspect Ratio	16:9
Supported Resolution	VGA, SVGA, XGA, WXGA, SXGA
Supported Video Formats	NTSC 3.58, 4.43; PAL N, M, B/G; SECAM
Supported HD Formats	up to 1080i
Lens	Minolta
Manual Vertical Lens Shift	•
Optics Sealing	•
Sealed Cabinet Structure: Single / dual	-/•
Sealed Lamp Structure	•
Noise Cancellation	•
Active fan control	•
Optimised Dust Shielding	•
Light Leakage Reduction	•
Automatic Input Detection (RGB/Component)	•
Discrete Remote Control Coding	•

ELECTRONICS & SOFTWARE

Video Processing	Faroudja
Progressive Scan	•
Deinterlacing	DCDi
3-2 Pull Down	•
Gamma Processing	10-bit
Electronic Keystone Correction: Horizontal / Vertical	•/•
DVi Link	DVi-D w/HDCP
Picture Modes	3
Picture Memories	9
Aspect Modes	Full, Normal, Through, Zoom
Color Temperatures (adjustable)	3
Black Level Selection	•
Lamp Mode	Normal, Economy

INPUTS/OUTPUTS

Composite Video In	1
S-Video In	1
Component In (Y, Cb/Pb, Cr/Pr)	2
RGB/HD In (D.Sub 15-pin)	1
RGB Out (D.Sub 15-pin)	-
DVi-D In	1
RS232C	1
DC Trigger Out	2
Remote Control In/Out	1/1
Digital Audio Out: Optical/Coaxial	1/1
Data-Audio In (3.5 mm)	-
Video-data In (3.5 mm)	-
Audio In/Out	-/-

SPECIFICATIONS

Panel Type	HD2 FMV
Resolution	1280x720
Panel	0.81" DMD
Contrast Ratio	3000:1
Brightness	700 ANSI lm
Lamp	SHP 200 Watts (DC)
Lens	f: 26.5 - 30.7 mm / F: 3.0
Projection Size	40"-250"
Projection Distance	1.3 m - 9.6 m
Operating Temperature	5o-35oC
Noise Level	33 dB
Operating Humidity	30%-85%
Average Lamp Life (in hours)	2000

GENERAL

Color	Silver & violet
Chassis	Alminum
Remote Control	RC-12VPS3
Power Consumption	t.b.d.
Standby Consumption	
Feet Adjustment	15 - 61.8 mm
Maximum Dimensions (W x D x H)	405 x 471 x 194 mm
Weight	13 kg

Design and specifications are subject to change by Marantz without notice

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