

marantz®

DLP Video Projector
VP-10S1



VP-10S1 3-chip DLP video projector

For the videophile who accepts nothing but the best, Marantz is proud to introduce the VP-10S1. This is the world's first 3 chip 16:9 video projector based on Texas Instruments' DLP technology that is designed specifically for home theater. For the discriminating audience, the Marantz VP-10S1 doesn't just raise the bar in video reproduction. It moves into a new area altogether, and needs to be experienced to be believed.

NEW



P R E M I U M S E R I E S

because music matters

Features

Benefits

- Three chip DMD projector
 - Faroudja Video Processing
 - 14-bit Digital gamma processing
 - Custom made Minolta Optics
 - Marantz design ORCA filter
 - Sealed optical path and double sealed cabinet structure
 - DVi-D video input (with HDCP)
 - Extensive picture adjustment possibilities
 - Automatic color temperature adjustment
- Performance improvements on important areas like, low noise, color saturation and accuracy, motion artifacts and smoothness, brightness and contrast ratio.
 - Award winning video processing technologies, delivering stunning video performance for all video sources (component, S-video and composite).
 - 4,4 Trillion color gradations possible
 - Reliable, highly accurate lens for the best edge to edge linearity and image quality.
 - Color correcting the light to create a flat wide spectrum in which to work from
 - Zero light spill and the convenience of not having to replace filters
 - For a high quality, full bandwidth, uncompressed digital video signal transmission from a (Marantz) digital source like a DVD player
 - Adaptation to personal taste, environment and sources enable you to have reference home theater video quality under all circumstances, including flexibility in installation
 - Automatically adjusts color temperature after lamp changes or as lighting changes over time

Technological glossary:

A new era of video enjoyment

The VP-10S1 is a video projector based on Texas Instruments' HD2 16:9 technology in a 3-chip arrangement. It offers up to 1200 ANSI lumens of brightness for the ability to light up very large screens. The black level of the VP-10S1 is extraordinary, with a contrast ratio of over 3600:1 for black level that rivals CRT. The VP-10S1 uses Marantz' exclusive ORCA filter for unparalleled color accuracy and the complete Faroudja FLI2200 series chipsets for state of the art video processing using the legendary DCDi deinterlacing system. Finally, the optics are custom ground and coated glass from Minolta including a special exclusive coating on the combining prism for complete control over light scatter.

Three DMD HD chip system

With the VP-12 series, Marantz for three years has defined the state of the art in front projection. With pictures that good, it was hard to imagine what could be done to improve on things. Well, as good as the VP-12 is, a single chip design has certain limitations which are virtually impossible to overcome. By using a separate DMD device for each color, we have improved on several important areas, notably, low noise, color saturation and accuracy, motion artifacts and smoothness, brightness and contrast ratio.

Amazing colors

In a single chip projector, a filter in a color wheel is used for splitting the light source into the three primary colors, Red, Green, and Blue. Filters are very inefficient, throwing away much of the available light. In the VP-10S1 extremely accurate prisms are used in a two pass method to separate the light into the primary colors. This assures very wide spectrum colors to illuminate the individual panels. In addition Marantz' ORCA filter is used just after the bulb, color correcting the light to create a flat wide spectrum in which to work from. The result? At virtually any level, no matter how complex the scene, the VP-10S1 delivers extremely accurate and vivid colors, using the ATSC colorspace as a reference. In short, this might be the most color accurate video device ever created.

Silky smooth motion

In a single chip system, since no two colors are ever projected on the screen at any given moment, that fact might be seen during motion sequences. The VP-10S1, because of its advanced 3-chip design, has motion as smooth as the filmmaker intended. This can also be extremely important during sporting events. In addition, since each chip has the full frame (1/60 second) to deliver an image instead of 1/3 of a frame (1/180 second), there are less motion artifacts as well.

Phenomenal brightness and efficiency

In a color wheel system, much of the available light from the bulb is reflected off of the color wheel and is never recovered. Since there is no color wheel in the VP-10S1, all of the available light is delivered through the lens. This means that the VP-10S1 is exceptionally bright, measuring 1200 ANSI lumens. This projector is bright enough to yield SMPTE recommended brightness levels on screens up to about 200" diagonal. In addition this level of brightness allows viewing in higher ambient lighting conditions. But even though this projector puts out an amazing amount of light, it runs cool, due to its die cast aluminum chassis and complex ductwork for ventilation. Even though there is over 250 watts of heat to eliminate, the fans run virtually silent.

Velvety blacks

The VP-10S1, due to all of its optical advancements, has a contrast ratio of over 3600:1! This is unheard of in the world of 3 chip digital projection, and may be the single most important "spec" of all. Because it is this number that describes how deep the blacks will be, and it is this black level that gives an image its "punch". Furthermore, for smaller screens (110-140), the lamp can be put into economy mode, which will lower the absolute black level even more. The result is rich vibrant images that have a dimensionality previously impossible in solid state projection.

Optical performance

Like the VP-12 series, the VP-10S1 uses custom designed multi-element, multi-coated all glass lenses from Minolta. These lenses are critical to the quality of the image projected by the VP-10S1 and are also partly responsible for the phenomenal contrast ratio. There are three lenses available which cover a tremendous amount of throw distances.

Installation friendly

New to the VP-10S1 is a horizontal lens shift which, when combined with the vertical lens shift and the incredible amount of flexibility in throw distances, makes the projector impossible not to fit in virtually any installation. In addition, the VP-10S1 has virtually any input that you could want, with composite and Y/C video, two multi-scan component jacks (one with BNC type connectors), RGB (D-Sub 15) and finally, a DVI connection for the ultimate signal quality in digital video (HDCP compliant).

Top quality video processing

Today's video sources have two different configurations: interlaced and progressive. They also have many different resolutions: from 702 x 480 pixels of interlaced video in the NTSC format all the way up to 1280 x 780 pixels progressively scanned or 1920 x 1080 pixels displayed in an interlaced fashion for HDTV. In order to fill the screen on a fixed resolution device like the VP-10S1 with it's 1280 x 720 pixels and maintain HD picture quality, extremely high quality video processing is required. For the VP-10S1, Marantz turned to the best resource: Faroudja Laboratories, the inventor of the first high quality line doubler, the originator of inverse telecine processing (better known as 3:2 pulldown), and three time Emmy award winner for excellence in video imagery. Suffice to say, that the VP-10S1 has the best video processing available today in an all-in-one product.

Selection of 3 lenses

The three lenses cover a range of as short as 1.44 – 1.8 times screen width for the short throw lens, 1.8 – 2.4 x width for the standard lens and an amazing 2.4 – 3.6 times the width for the long lens. This makes the VP-10S1 a perfect replacement for three gun CRT projectors or offers the possibility of outside-the-room mounting for the “screening room” type designs.

Bypacked accessories

- User manual
- Power cable
- Remote control
- Batteries
- Control adapter cable
- Scart cable
- Lens cap
- Lens protector

RC-12VP



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FEATURES		INPUTS/OUTPUTS		FEATURES 10VP32	
<u>OPTICS</u>		Composite Video In		Focal length (mm)	
Projection Technology	DLP	S-Video In		F No.(Lens Only)	
Aspect Ratio	16:9	Component In (Y, Cb/Pb, Cr/Pr - RCA)		Lens Model Name	
Supported PC Resolution VGA / SVGA / XGA / WXGA /SXGA	•/•/•/•/•	Component/RGBhv in (BNC)		Zoom Ratio	
Supported Video Formats: NTSC	•/•/•	RGB/HD In (D.Sub 15-pin)		Throw Distance(m)	
3.58, 4.43 / PAL N, M, B/G / SECAM	•/•/•	RGB Out (D.Sub 15-pin)		Lens name	
Supported HD Formats	1080i	DVi-D In		60" (16:9)	
Focus adjustment: Manual / motorized	-/•	HDMI in		80" (16:9)	
Zoom adjust: manual / motorized	-/•	RS232C		100" (16:9)	
Vertical Lens Shift: Manual / motorized	-/•	DC Trigger Out		120" (16:9)	
Horizontal lens shift: Manual / motorized	-/•	Remote Control In/Out		150" (16:9)	
Optics Sealing	•	Digital Audio Out: Optical/Coaxial		200" (16:9)	
Sealed Cabinet Structure: Single / dual	-/•	Data-Audio In (3.5 mm)		250" (16:9)	
Sealed Lamp Structure	•	Video-data In (3.5 mm)		300" (16:9)	
Colour wheel	-	Audio In/Out		9.6 - 11.8	
Noise Cancellation	•	<u>SPECIFICATIONS</u>		<u>FEATURES 10VP40</u>	
Active fan control	•	DMD panel		Focal length (mm)	
Optimised Dust Shielding	•	DMD Type		F No.(Lens Only)	
Light Leakage Reduction	•	Panel Size		Lens Model Name	
<u>ELECTRONICS & SOFTWARE</u>		Aspect Ratio		Zoom Rati•	
Video Processor	Faroudja	Mirror tilt angle		Throw Distance(m)	
Video Processing	10-bit	Number of Pixels		Lens name	
Panel drive processing	14-bit	Active area		60" (16:9)	
ORCA Filter	•	Active area Aspect		80" (16:9)	
Natural Density Filter	-	Number of Panels		100" (16:9)	
Progressive Scan	•	Contrast Ratio		120" (16:9)	
Deinterlacing	DCDi	Brightness: Normal / Economy		150" (16:9)	
3-2 Pull Down	•	Lamp		200" (16:9)	
Gamma Processing	10-bit	Standard lens		250" (16:9)	
Electronic Keystone Correction:	•/•	Projection Size		300" (16:9)	
Horizontal /Vertical	•/•	Projection Distance		<u>FEATURES10VP53</u>	
Picture Modes	3	Operating Temperature		Focal length (mm)	
Picture Memories	12	Noise Level		F No.(Lens Only)	
Picture size memory	•	Operating Humidity		Lens Model Name	
Aspect	Full, Normal, Through, Zoom	Average Lamp Life (in hours)		Zoom Rati•	
Colour Temperatures	5	<u>GENERAL</u>		Throw Distance(m)	
Black Level Selection	•	Colour: Grey/black		Lens name	
Lamp Mode (Normal/Economy)	250 / 200 Watts	Aluminum diecast chassis		60" (16:9)	
Automatic Input Detection (RGB/Component)	•	Remote Control		80" (16:9)	
Discrete Remote Control Coding	•	Power Consumption		100" (16:9)	
Colour temperature sensor (CT-12)	•	Standby Consumption		120" (16:9)	
		Feet Adjustment		150" (16:9)	
		Maximum Dimensions (W x D x H)		200" (16:9)	
		Weight		250" (16:9)	
				300" (16:9)	

Design and specifications are subject to change by Marantz without notice.

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