

VP-12S1 High Definition DLP Projector

Optics

- Texas Instruments Digital Light Processing Technology
- High Definition (1280 x 720), DMD Semiconductor
- Newly Developed Custom Optics by Minolta
- 16:9 Aspect Ratio
- 1100:1 Contrast Ratio
- 700 ANSI Lumens Brightness
- Brightness Uniformity: 90%
- No Halo Effect
- Lens Up/Down Shift Construction
- Short Throw Distance: 80"-2.6m , 100"-3.3m
- Sealed Optical Path
- No Light Leakage (Double Sealed Cabinet Structure)
- Extremely Quiet (Noise Cancelling Construction, Sealed Color Wheel Motor)
- Long Life Lamp (Average 2000 Hours)

Electronics & Software

- Full Digital Device
- Video Processing Using Faroudja Processing with DCDi Enhancement
- 3-2 Pulldown Progressive Scan Film Detection
- 10-bit Digital Gamma Processing
- Horizontal and Vertical Keystone Correction
- Accepts All Modes of NTSC, PAL, SECAM, and ATSC Including HDTV
- IEEE 1394 DV Format Adapted for Digital Video Camera Playback
- PC Signal VGA to XGA
- Three Picture Modes: Theater, Standard, Dynamic
- Nine Picture Memories
- 4 Aspect Modes
- Three Color Temperatures
- Black Level Selection
- System Control Through RS232C
- Two Triggers for Powered Screen Control
- Economy Lamp Mode

In/Outputs

Video Inputs

Composite Video	1 (RCA)
Y/C	1 (S-Video)
Component NTSC/ATSC	1 (3x RCA)
RGB/HD	1 (VGA D-Sub 15)
DV (i-Link)	1 (IEEE-1394)
RS232C	1 (D-Sub 9)
RC-5	1 (3.5mm mini)

Outputs

DC Trigger	2 (3.5mm mini)
RC-5	1 (3.5mm mini)
Digital Audio	2 (Coax and Toslink) (for DV)

Specifications

Optical Characteristics

Panel	0.85 inch 16:9 1,280 x 720 pixels Super High Pressure, 150 W
Lamp	
Lens	f: 26.5 to 30.7 / F: 3.0
Throw Distance	80"-2.6m, 100"-3.3m
Projection Size	40 to 250 inches
Light Output	700 ANSI LUMEN Typical
Operating Temperature	5°C to 35°C
Operating Humidity	30% to 85%

Accessories

Lens Cap	1
Remote Controller	1
Batteries	2
AC Power Code	1 (Only for 125 V)
User Guide	1
Control Adapter Cable	1 (Mini Jack to RCA)
Ferrite Cores	2
Minolta Long Throw Lens	(optional)

General

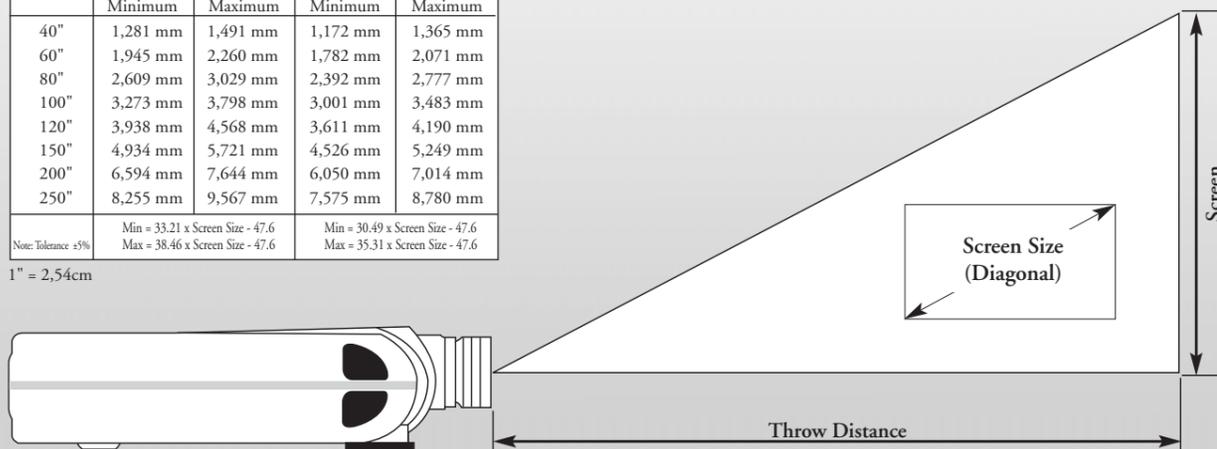
Color	Charcoal Grey/Violet
Chassis	Metal
Remote Control	RC-12VPS1
Power Requirement	AC 100-120 V / 220-240 V, 50/60 Hz
Power Consumption	< 250 W
Standby Consumption	< 3.3 W
Dimensions mm	(W x D x H) 405 x 471 x 132 (excl. Feet)
Feet Adjustment	15 – 61,8 mm
Weight	13 kg.



Screen Size (Diagonal)	16:9 Screen		4:3 Screen	
	Minimum	Maximum	Minimum	Maximum
40"	1,281 mm	1,491 mm	1,172 mm	1,365 mm
60"	1,945 mm	2,260 mm	1,782 mm	2,071 mm
80"	2,609 mm	3,029 mm	2,392 mm	2,777 mm
100"	3,273 mm	3,798 mm	3,001 mm	3,483 mm
120"	3,938 mm	4,568 mm	3,611 mm	4,190 mm
150"	4,934 mm	5,721 mm	4,526 mm	5,249 mm
200"	6,594 mm	7,644 mm	6,050 mm	7,014 mm
250"	8,255 mm	9,567 mm	7,575 mm	8,780 mm

Note: Tolerance ±3%
Min = 33.21 x Screen Size - 47.6
Max = 38.46 x Screen Size - 47.6

1" = 2,54cm



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DLP PROJECTOR VP-12S1



High Definition DLP Projector

Let the scene come to life before your eyes and feel as if you're there with Marantz's latest achievement in video projection. The HDTV-ready VP-12S1 is brighter, clearer and quieter – and is capable of delivering unsurpassed image quality from any video source. Innovative technologies include advanced Digital Light Processing and Faroudja DCDi (Directional Correlation De-interlacing). The VP-12S1 projects breathtaking, crystal-clear images and takes you to a higher level in home entertainment.

DCDi™
by FAROUDJA

DLP™
A TEXAS INSTRUMENTS TECHNOLOGY

A view like no other

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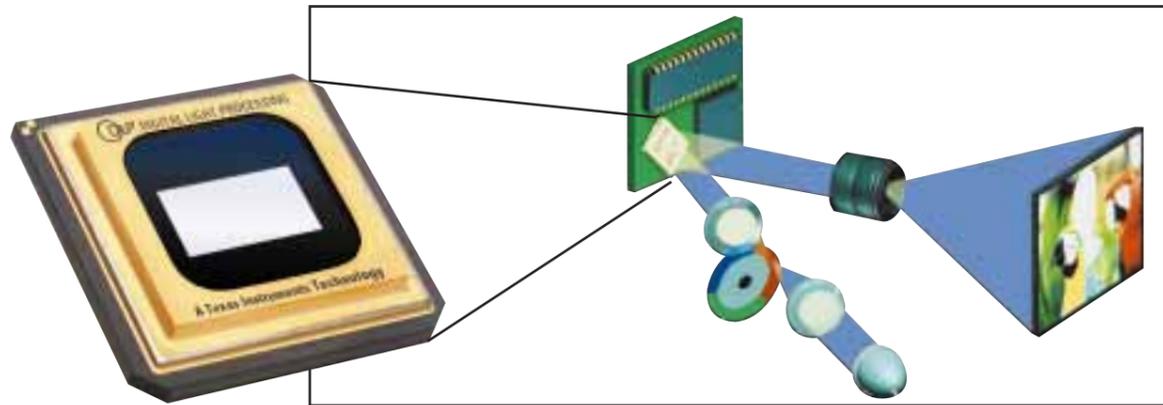
VP-12S1 Video Projector

Marantz raises the bar

The Marantz VP-12S1 redefines the state of the art in solid state video projection. Whether you are talking about the 720p resolution DMD chip used in DLP technology from Texas Instruments, the 5x color wheel with color filters designed to match the NTSC/ATSC color space, the advanced sealed optics from Minolta, or the video processing from Faroudja, it amounts to a level of performance never before achieved.

DLP technology

The VP-12S1 is one of the first video projectors in the world to make use of Texas Instruments' new HD1 1280x720 DMD chip in DLP technology. This new chip has many benefits over previous attempts at using DLP in home theater. Earlier DLP projectors were technically 4:3 devices that were primarily designed for commercial applications. By design limitations, a 4:3 DMD chip can't "turn off" all of the unused pixels when displaying 16:9 sources and since the world is moving in a widescreen direction, this resulted in an annoying "halo effect" around the screen when any aspect ratio other than 4:3 was used. The new VP-12S1 with its 921,600 pixels, a color wheel that spins at 5x the 60 Hz video frequency and new internal masking technologies, is more than capable of displaying any PAL or HD source with breathtaking sharpness, detail, and contrast. And, when you are watching an image that doesn't require the use of all of the pixels, you will see nothing other than breathtaking artifact-free video.



Faroudja 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 PAL 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-12S1 with its 1280 x 720 pixels, and maintain HD picture quality, extremely high quality video processing is required. For the VP-12S1, Marantz turned to the best: Faroudja Laboratories, the inventor of the first high quality line doubler, the originator of inverse telecine processing. How it Works — Incoming video is decoded by a Faroudja video decoder. The VP-12S1 offers patented 10-bit adaptive comb filtering with Cross-Color suppression (rainbow pattern artifact) and a two line Time Base Corrector. Then, Bandwidth Expansion is applied to the color signal for further improvements in color resolution. Finally the signal is deinterlaced and enhanced by their world renowned processing including the patented Directional Correlational Deinterlacing (DCDi™) circuit, which applies new motion adaptive deinterlacing that prevents the introduction of motion artifacts and jagged edges from video signals that originated from video cameras (such as with sporting events, live camera feeds and music videos). Patented 3:2 pull-down circuit with advanced edit detection is used for video signals that originated from film cameras for exact reconstruction of the original film

frame without introducing motion artifacts. The advanced edit detection is critical to track today's videos that typically are filled with fast edits that combine both film and video originated sources. Finally the image is scaled to the native 1280 x 720 rate defined by the DMD™ panel. This sophisticated circuitry also offers 4 different aspect ratios, (Full, Normal, Through, Zoom), which will allow any shape of image to be viewed in the best light (no pun intended).



Minolta optics

All of this excellent picture circuitry won't do any good if you can't get the image to the screen properly. For this reason we chose custom ground optics by Minolta. These optics feature a sealed light path so that the normal dust and smoke that exist in a typical home environment won't ever intrude on the image. They also are designed for maximum contrast, which in this case yields an amazing 1100:1 ratio, previously unheard of in a solid state video projector.

The picture

All of the above amounts to a picture that has to be viewed to be believed. With any source from a VCR up to the best HDTV, the VP-12S1 displays a vivid, accurate image free from visible artifacts. With a bright 700 ANSI lumens and 1100:1 contrast ratio, the picture can even be enjoyed in rooms that have less than ideal lighting control.

The flexibility

We have designed the VP-12S1 with ease of use and installation utmost in our priority list. Here is a list of some of the features that lend themselves perfectly to the custom installation environment:

- Mechanical Lens Shift
- Horizontal and Vertical Keystone controls
- Horizontal and Vertical Positioning controls
- Horizontal and Vertical Sizing controls
- Two screen triggers, one of which is aspect ratio controlled
- Full discrete IR and RS232C controls
- Backlit input panel
- Focus and sizing test pattern
- Automatic sensing of signal type with Component and RGB (VGA) input
- Composite, Y/C, Component and RGB (VGA) inputs
- PAL, NTSC and SECAM capabilities
- Four different aspect ratio controls

because music matters