

D-ILA™ PROJECTOR DLA-DS1

True SXGA in The World's Smallest and Lightest Package



Ready for the future: Introducing JVC's DLA-DS1, the world's smallest and lightest projector with true SXGA capability

Over the next few years, demand for SXGA resolution is expected to increase rapidly. In the near future, this high-resolution format is likely to account for half the display market, making it the dominant display standard.

Clearly, then, SXGA capability is critical to meeting the image display demands of the future.

Now you can take advantage of true SXGA resolution without having to commit to a big, expensive permanent projector installation. Thanks to JVC's original 1PBS optical engine, the high-resolution DLA-DS1 D-ILA™ projector not only delivers full-quality SXGA pictures, it's also smaller and lighter than any other projector in its class — small enough to set up just about anywhere, and light enough to move easily from room to room as required.

With its virtually unlimited information processing potential,
D-ILA™ technology is destined to become the premier display technology
for digital cinema and other high-end applications in the future.
This technology has already made our current D-ILA™ device the leader in the market
for high-performance large-screen display projectors.
Now we are developing a new generation of D-ILA™ devices (0.7" SXGA+ device, 1.3" QXGA device, etc.)
that will pave the way for even more exciting applications in the future.



"D-ILA™ Quality" natural, smooth image with optimized contrast

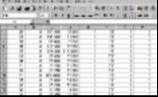
JVC's original D-ILA™ technology for unsurpassed image quality

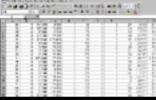
JVC's D-ILA™ (Direct Drive Image Light Amplifier) technology features a high-density, reflective liquid crystal structure that provides you with today's optimal combination of brightness, resolution, contrast and color for the big screen. Thanks to a 93% aperture ratio, it also provides the highest native resolution with the least visible pixels, making images as smooth and natural as film.

1,365 x 1,024 native resolution for true SXGA resolution without compression plus UXGA compatibility

With extra-high resolution of up to 1,365 x 1,024 pixels, the DLA-DS1 easily handles even the super-sharp clarity of an SXGA (1,280 x 1,024 pixels) image. It reproduces the picture without the scaling or loss of quality typically associated with projection of high-resolution computer graphics and CAD/CAM images. With video resolution of 1000 TV lines, small text, characters, icons and cursors are clearly legible even at the corners of the projected image.

Moreover, the DLA-DS1 has input capability up to 105 kHz, making it compatible with resolutions as high as UXGA (1,600 x1,200).





Ordinary resolution

SXGA resolution

Technologies for enhanced image quality

The powerful image reproduction performance of the DLA-DS1 is enhanced by an array of unique JVC imaging technologies that assure the best possible results with any image source.

• Adaptive DPC (Digital Pixel Conversion) Technology

This optimizes image scaling to best match the D-ILA™'s pixels, eliminating the annoying jagged edges found with other digital technologies. As a result, you can obtain smooth and natural images regardless of the source resolution (up to 105 kHz).

• Digital Gamma Correction

With accurate color reproduction capability, this circuitry provides superior color performance by ensuring accurate gray scale, from sheer black to shining white. That's critical for all your images, from subtle skin tones in home theater screenings to the complex coloration of workstation graphics.



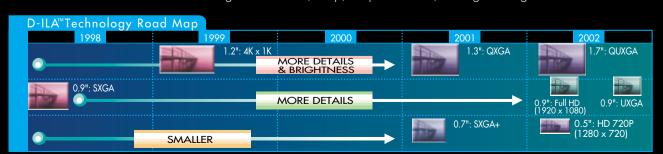
Color Enhancement Technology This compensates for color contours to eliminate blur for crisper and sharper video images.

200 W UHP lamp

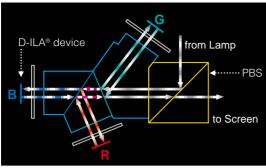
The superb **1,300 ANSI lumen** image of the D-ILA™ picture shines through even in a brightly lit room thanks to the powerful new **200 W UHP lamp**.

Compatibility with the future

The continued advance of digital technologies means that more visual information is processed, and more details have to be displayed. As a result, both desktop and notebook PCs are moving towards the SXGA display standard, digital camera resolutions are increasing into the mega-pixel range, and high-quality video sources like HDTV are making their way into many homes. With its true SXGA-based design, the DLA-DS1 can accurately project images from any of these sources. And, with "Class B" classification, the DLA-DS1 is completely suitable for home use. The ideal home theater projector, it is also fully compatible with digital TV — 480i, 480p, 720p and 1080i, making it the right choice for the future.

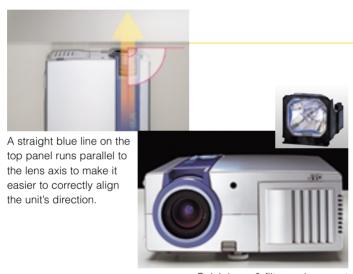


World's smallest and lightest



1PBS system — patent pending

In order to incorporate the high performance of its D-ILA® projection technology into a compact unit that can be installed anywhere, JVC developed a completely new optical system that uses only one PBS (Polarized Beam Splitter). As a result, the DLA-DS1 weighs a mere 13.2 lbs (6.0 kg.). As easy to move around as a notebook computer, the DLA-DS1 can go anywhere, anytime, assuring a top-quality, high-impact presentation every time.



Quick lamp & filter replacement

Easy-to-use and user-friendly design

Installation is a snap. Setup is just a matter of plug and play — align the blue line (optical axis) on the unit vertically with the screen surface and you're ready to go. The quick alignment function automatically sets up the projector's phase/tracking/position in a matter of seconds.

A cooling vent located on the front directs warm

A cooling vent located on the front directs warm exhaust forward, where it's less likely to bother anyone. Acoustic noise generation is minimal — almost below the threshold of normal hearing.

The lamp and filter can be replaced from the front so there's no need to move or lift the projector.

And when you do need to move the projector, the belt handle is provided for easy carrying.

Ihrow (distance vs.	Screen size		Screen size (ft) 2.79	5.35 1.63			13.32 4.06	19.98 6.09
Wide	-			33.00					
creen size (ft) <width> (m)</width>	4.99 5.35 6.66 1.52 1.63 2.03	13.32 4.06	19.98 6.09	Throw (ft) distance (m)	6.66 2.03	12.86 3.93	16.17	32.54 9.92	49.04 14.95
CVVIGUIZ (III)	1.02 1.03 2.03	4.00	0.09	distance (iii)	2.03	3.83	4.93	9.92	14.95
The second second									
300.0									



Powerful presentation support system

• Digital keystone correction

Keystone correction of $\pm 20^{\circ}/35^{\circ*}$ with the direct button.



• 1.3x optical zoom/16x digital zoom function

The picture can be magnified up to 16x.

Freeze frame

Lets you freeze the current image (still picture), so you can set up the next presentation.

• User selectable color temperature

The optimum color temperature can be set for each media source (PC/TV, Cinema), making images more natural and smooth.

• User channel presets

For the most specialized applications, up to 40 user channels can be preset (freq./phase/H Pos./V Pos./HV resolution/ tone selection) for flexibility and ease of use.



- Environment-friendly fluorescent remote control
- Remote control signal reception window on the rear panel for easier control over presentations



Major Specifications

SYSIEIVI				
Image Device		3 D-ILA™ (0.9 inches diagonal)		
Projection Lens		1.9 to 2.5 : 1 (Throw distance: Screen width), F3.6, manual zoom/focus, 50% fixed offset		
Brightness		1,300 ANSI lumens		
Native Resolution		1,365 x 1,024 pixels		
Source Resolution		Up to 1,600 x 1,200, 1000 TV lines (4:3, vertical, video input)		
Uniformity		85% or more		
Scan Frequer	псу			
Horizóntal Vertical		15 – 105 kHz 50 – 90 Hz		
Data Clock		160 MHz		
Screen Size	Wide	4.99 ft - 19.98 ft (1.52 m - 6.09 m) (width)		
Screen Size	Tele	2.79 ft – 19.98 ft (0.85 m – 6.09 m) (width)		
Throw Distance	ce	Approx. 6.56 ft – 49.2 ft (2 m – 15 m)		
Lamp		200 watts, UHP		
Speaker		1.0 W, monaural		
		<u> </u>		

SOURCES

Computer	VGA, SVGA, XGA, SXGA, UXGA, MAC, SUN, SGI, etc.
Video	PAL, SECAM, NTSC/NTSC 4.43
DTV (Digital TV)	480i, 480p, 720p, 1080i
Audio	2 sources (RCA, mini jack)

CH SETTING

CH Auto Search	130 sources (VGA to UXGA)
User CH Setting Source	40 CH
User CH Setting	Freq./phase/H Pos./V Pos./HV resolution/tone selection
	CH auto tracking (phase/tracking/position)
External Switcher Control	User CH switcher No. setting (10 CH) ON/OFF hide CH selection

GENERAL

Power Requirement	100 – 240 V, 50/60 Hz AC
Power Consumption	270 W
Dimensions (W x H x D)	11.4" x 5.2" x 13.8" (excluding lens) (290 x 132 x 350 mm)
Weight	13.2 lbs. (6.0 kg)

REAR PANEL



INPUTS

	Computer and DTV
1 Component (Y, Pr, Pb)	Video and DTV (1 RGBHV and 1 Component inputs use a common connector.)
1 RGB (15-pin VGA)	Computer
1 Composite	
1 S-Video	

EXTERNAL CONTROL

	Serial: 1 source (RS-232C, D-sub 9-pin) Remote: 1 source (wired remote, mini jack)				
IR Remote Control	Fluorescent type				

Allowable input signals

Signal			Number of pixels (dots)	Horizontal frequency H (kHz)	Vertical frequency V (Hz)
Video system	Video	HDTV (1035i) 60Hz HDTV (1035i) 59Hz 480p 720p 60Hz 720p 59Hz 1080i 60Hz 1080i 59Hz NTSC PAL SECAM	720x483 1280x720 1260x720 1920x1080/2 1920x1080/2	33.75 33.72 31.47 45.00 44.96 33.75 33.72 15.734 15.625 15.625	60.00 59.94 59.94 60.00 59.94 60.00 59.94 60
PC system	PC96 PC/AT DOS/V	VESA350 PC98 VGA 60Hz VGA 72Hz VGA 75Hz VGA 75Hz VGA 85Hz SVGA 56Hz SVGA 72Hz SVGA 75Hz SVGA 75Hz SVGA 85Hz XGA 43Hz XGA 60Hz XGA 75Hz XGA 85Hz SXGA 60Hz SXGA 75Hz SXGA 60Hz SXGA 75Hz SXGA 60Hz	640x350 640x400 640x480 640x480 640x480 640x480 800x600 800x600 800x600 800x600 1024x768/2 1024x768 1024x768 1024x768 1280x1024/2 1280x1024/2 1280x1024/2 1280x1024/1 1280x1024/1	37.86 24.83 31.47 37.86 37.50 43.27 35.16 37.88 48.08 46.88 53.67 35.52 48.36 56.48 60.02 68.68 46.43 63.98 79.98 91.15 75.00	84.13 56.42 59.94 72.81 75.00 85.01 56.25 60.32 72.19 75.00 85.06 43.48 60.00 70.07 75.03 85.00 43.44 60.02 75.03 85.00
	Мас	MAC 13 MAC 16 MAC 19 MAC 21	640x480 832x624 1024x768 1152x870	35.00 49.73 60.24 68.68	66.67 74.55 74.93 75.06

- Notes

 The resolution for the input signals is listed in the above table.

 Even signals in the frequency range that can be input may not be displayed normally depending on the type of the signal.

 When a signal other than listed above is input, the image could be partially erased or an unneeded fold-over image could appear.

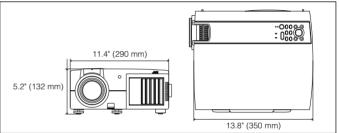
 Some signals other than listed above can be displayed. But they may require adjustment.

 Even some of the signals listed above may require adjustment depending on the video board used.

 Composite sync (Ca) and G on Sync signals cannot be handled depending on the devices connected.

 The VGA signal of the PC system could be displayed in 480p mode of the VIDEO system. (In this case, the projector enters video menu mode when the MENU button is pressed.)

Dimensions





- High-resolution 1,280 x 960 pixels equivalent to SXGA images
 RGB (SXGA to VGA) or NTSC/PAL output

- Simultaneous display
 3-picture memory
 Smooth transitions with freeze function
- 20x zooming (4x electronic zoom combined with 5x power zoom) 2 zoom presets Camera/PC input selector Pointer indication

- · Book holder