

JVC
PROFESSIONAL

D-ILA® PROJECTOR
DLA-G3010ZGA

True SXGA in The World's Smallest and Lightest Package



SXGA

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Ready for the future: Introducing JVC's DLA-G3010ZGA, 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-G3010ZGA 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

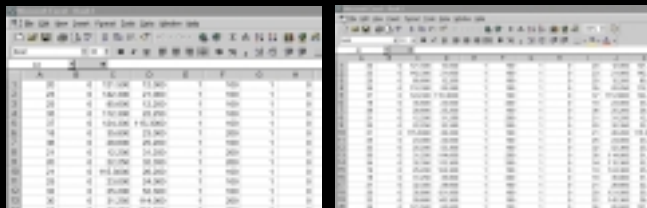
JVC's original D-ILA® technology for unsurpassed image quality

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-G3010ZGA 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-G3010ZGA has input capability up to 105 kHz, making it compatible with resolutions as high as UXGA (1,600 x 1,200).



Ordinary resolution

SXGA resolution

Technologies for enhanced image quality

The powerful image reproduction performance of the DLA-G3010ZGA 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**

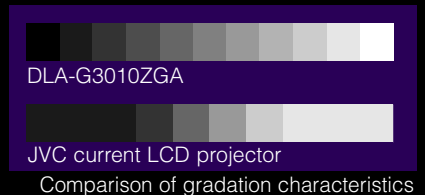
With accurate color reproduction capability, this circuitry provides superior color performance by ensuring accurate gray scale, from sheer black to shining white. That's critical for all your images, from subtle skin tones in home theater screenings to the complex coloration of workstation graphics.

- **Color Enhancement Technology**

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

- **200 W UHP lamp**

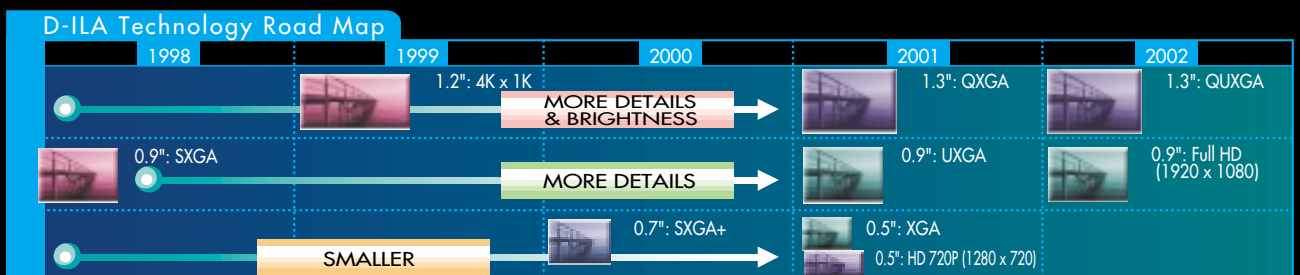
The superb **1,300 ANSI lumen** image of the D-ILA® picture shines through even in a brightly lit room thanks to the powerful new **200 W UHP lamp**.



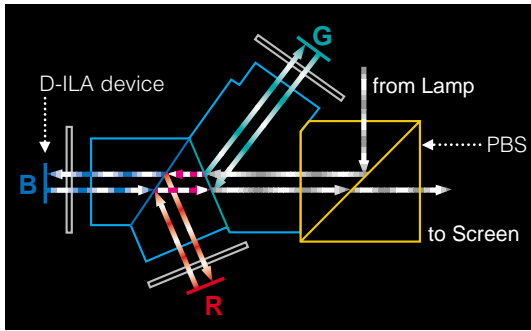
Comparison of gradation characteristics

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-G3010ZGA can accurately project images from any of these sources. And, with "Class B" classification, the DLA-G3010ZGA 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-G3010ZGA weighs a **mere 13.2 lbs. (6.0 kg)**. As easy to move around as a notebook computer, the DLA-G3010ZGA can go anywhere, anytime, assuring a top-quality, high-impact presentation every time.



A straight blue line on the top panel runs parallel to the lens axis to make it easier to correctly align the unit's direction.

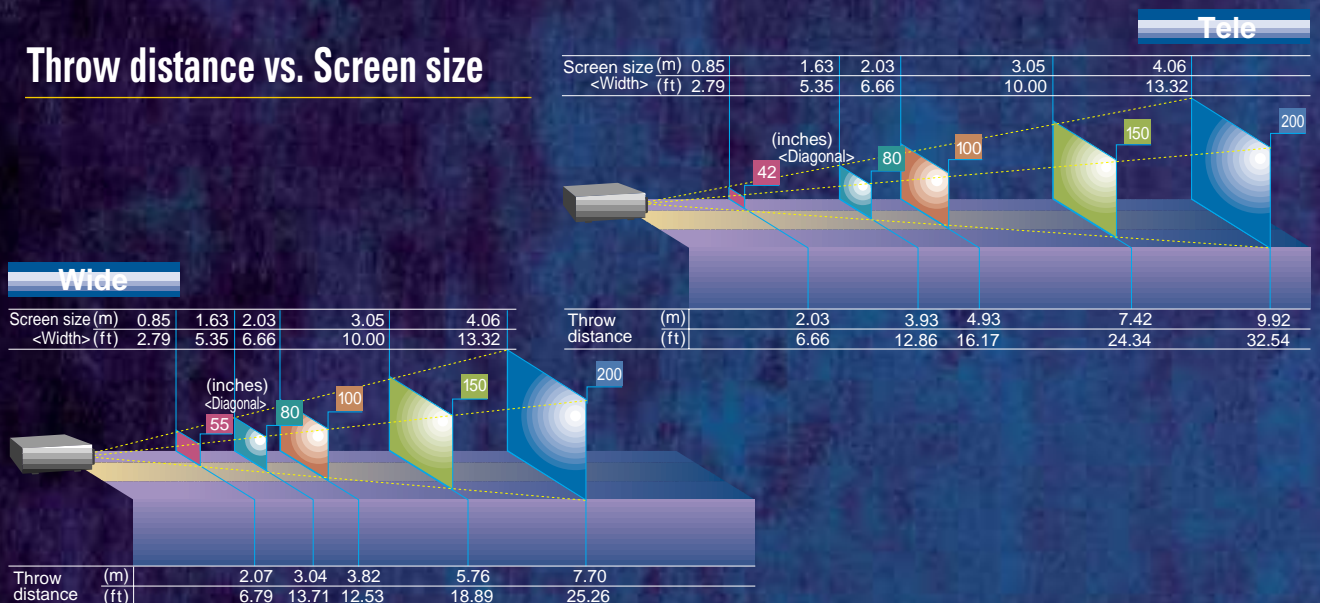


Quick lamp & filter replacement

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 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.

Throw distance vs. Screen size



Meeting the need for true SXGA capability and affordable convenience

The DLA-G3010ZGA can faithfully reproduce all the details of the original image when it is connected to an SXGA resolution notebook PC, digital camera or JVC digital presenter.

SXGA

Notebook PC

SXGA-UXGA

Digital camera

SXGA

AV-P1000 digital presenter
(replaces OHP system)

W-VHS High-Definition VCR

Powerful presentation support system

• Digital keystone correction

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



Before correction

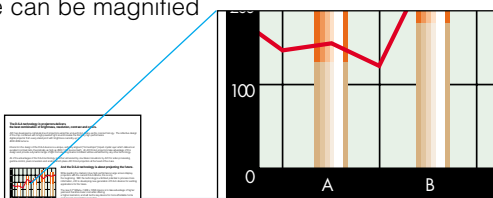
After correction

Before correction

* Setting is possible via the RS-232C interface.

• 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.

• Hide buttons

• Environment-friendly fluorescent remote control

• Remote control signal reception window on the rear panel for easier control over presentations



Major Specifications

SYSTEM

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 Frequency	
Horizontal	15 – 105 kHz
Vertical	50 – 90 Hz
Data Clock	160 MHz
Screen Size	
Wide	1,118 mm – 4,064 mm (width) 55" – 200" (diagonal)
Tele	853 mm – 4,064 mm (width) 42" – 200" (diagonal)
Throw Distance	Approx. 2 m – 10 m (6.56 ft – 32.79 ft)
Lamp	200 watts, UHP
Speaker	1.0 W, monaural

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)

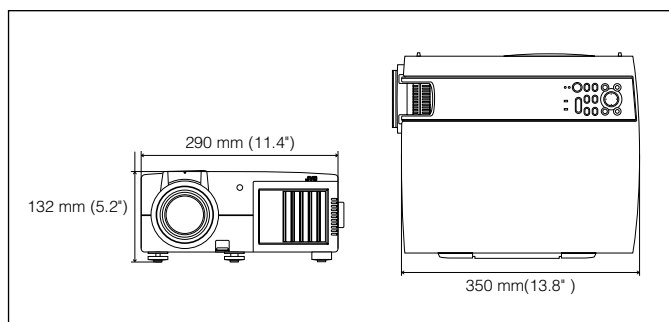
CH SETTING

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
Quick Alignment	(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 (WxHxD)	290 x 132 x 350 mm (excluding lens) (11.4" x 5.2" x 13.8")
Weight:	6.0 kg (13.2 lbs.)

Dimensions



Rear Panel



INPUTS

1 RGBHV (BNC)	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

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

AV-P1000 digital presenter



- 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

Design and specifications subject to change without notice.

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Printed in Japan
PCUN-0401 (EU/A)