The DLA-VS2300 and DLA-VS2300 Visualisation Series projectors are designed for visualisation and simulation. Each 2K model is equipped with a new BLU-Escent laser phosphor light source, offering long lifespan ideal for applications requiring 24/7 use. The projectors use JVC’s three-chip D-ILA imaging system, with the DLA-VS2500 also featuring JVC’s renowned 4K e-shift technology for high resolution imaging – up to 4K signal sources.

**DLA-VS2300**

D-ILA projector with BLU-Escent light source.

- DLA-VS2300G (no lens)
- DLA-VS2300ZG (with lens)

**DLA-VS2500**

D-ILA projector with BLU-Escent light source and optical/electrical upscaling to a 4K image.

- DLA-VS2500G (no lens)
- DLA-VS2500ZG (with lens)
DLA-VS Series projectors are ideal for professional visualisation applications. Both the DLA-VS2300 and DLA-VS2500 models feature a new laser phosphor light source, delivering stable, long-life operation. The DLA-VS2500 also features dedicated e-shift3 optical shift technology, which creates 4K resolution with extremely low pixel density. Each model can be ordered with a standard zoom lens (ZG models) or without a lens (G models) for use with dedicated high-grade wide-angle lenses.

D-ILA devices – projectors that deliver outstanding levels of contrast – have for many years been providing industry professionals and consumers with excellent results. The newly-developed DLA-VS2300 and DLA-VS2500 professional projectors have been designed to produce optimal results for visualisation and simulation. Regardless of the image being presented on-screen, be it a bright daylight scenario or a dark night scene, the projectors reproduce an exceptionally realistic image.

The proprietary technology in these D-ILA devices has been optimised and, as a result, their outstanding luminance efficiency delivers a very high contrast image – one of the main advantages of using the laser-based light source. Compared with an approach that combines an LED with a DLP device, a projection system that combines a laser light source with a D-ILA device has proven to be a winning combination, delivering superior directionality and high brightness.

JVC’s D-ILA devices deliver high-contrast images by harnessing a light source that’s created by combining highly efficient laser light with phosphor. The result is a contrast ratio of 30,000:1. This high contrast gives outstanding reproduction of blacks, which can be particularly striking during simulations that take place at night.

Combine a laser with phosphor (a fluorescent substance) and the resulting light source registers a brightness of 1200 lumens. When compared with lamp-type models, this new approach delivers stable, clear images over long periods.
The **DLA-VS2500** also supports the option for 4K input sources, with dedicate A/B signal driving. The unit uses native 1920x1080 D-ILA chip sets together with optical shift technology, called e-shift3, that creates a higher resolution with extreme low pixel density. This works by shifting the image by 1/2 pixel in the diagonal direction at 120Hz, achieving 3840x2160 precision.

Key benefits of the DLA-VS2500 include low cost of ownership and 4K effective resolution, thanks to the optical and electrical e-shift3 upscaling and 120Hz refresh. Its hybrid laser illumination system makes it ideal for use for 2D simulation.

**Why use a blue laser?**

Of the RGB colours, blue has the shortest wavelength and carries the greatest amount of energy, which can be used to produce other colours. Also blue lasers have an outstanding advantage in terms of service lifespan, which results in superior cost performance.
BLU-ESCENT LIGHT

The new light source technology, developed by JVC, consists of a blue laser combined with phosphor. Some of the blue laser light strikes the phosphor wheel, which gives off yellow light, which is then recombined with the blue light to create white light. This white light is then split into three colours (RGB). Every JVC D-ILA projector uses three D-ILA devices – one each for red, green and blue – that are combined to create the full colour palette.

KEY FEATURES

- Laser-hybrid illumination system with 20,000+ hour lifetime for low operating cost and consistent performance
- 1920 x 1080 native resolution (DLA-VS2300)
- DLA-VS2500 features JVC e-shift technology, for high resolution imaging – up to 4K signal sources
- 3 active matrix 0.7" digital D-ILA devices
- 30,000:1 contrast ratio (typical), 20,000:1 (minimum)
- Digital smear reduction via black-frame insertion
- ±25ms frame delay
- 1080p 60/50 synchronous operation
- 1200 ANSI lumens (typical), 1000 ANSI lumens (minimum)
- 12-bit gamma correction
- 7-axis colour management system
- Rugged chassis for motion-based applications

- 16-step lens aperture control (ZG models)
- 100%-25% illumination control (125 steps), auto-intensity function
- Slim-specific D-ILA devices
- High-contrast IR output for simulated NVG applications
- User-adjustable gamma tracking
- Long-life wiregrid polarisers
- Long-life inorganic optical components
- Wide-range zoom lens, 1.4-2.5:1 throw ratio, ±80° vertical offset, ±34° horizontal offset (ZG models)
- Available 1.0:1 and 1.2:1 fixed lenses with ±50° vertical offset, ±10° horizontal offset (G models)
- Flexible orientation - unlimited pitch & roll
- 11x11 matrix, 1/16 pixel micro-convergence control
- Comprehensive LAN/RS232 control protocol
- Configuration save/restore capability

PRODUCT DESCRIPTION

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<tr>
<th>PRODUCT</th>
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<td>D-ILA projector with BLU-EScent light source, without lens</td>
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<td>D-ILA projector with BLU-EScent light source, without lens with optical &amp; electrical up-scaling to a 4K image impression</td>
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For the DLA-VS2300/2500, we offer two different wide angle lenses, with factor 1:1 or 1:2:1. The lenses are designed for simulator applications and deliver minimum distortion values. For optimum performance, the lens can be mounted at a JVC service department for an additional price per unit.

www.jvcpro.eu