

JVC[®]

The Perfect Experience / —

DLA-HD100/DLA-HD1

Full High-Definition Home Theatre Front Projector



D-LILA[®]

Full HD
1920x1080



TRUE BLACK, TRUE COLOURS HD100
INTELLIGENT PROJECTION SYSTEM



True Black, True Colours

Bringing the true cinema experience to your home.

D-LILA[®]



JVC is proud to introduce the new DLA-HD100, an intelligent projection system that will transcend conventional expectations of projector users. As the latest addition to JVC's intelligent projection system line-up, the DLA-HD100 offers a contrast ratio of 30,000:1 — double that of the DLA-HD1 — for excellent black level and greyscaling as well as optimum levels of brightness and colour depth. What's more, features such as customisable gamma, motorised zoom/focus, and V-stretch mode for 2.35:1 viewing are just some of the advantages that allow precise control and adjustment of the picture, just the way you like it. Helping to bring a true cinema experience to the home, the superb DLA-HD100 will let you show your true colours.



DLA-HD100

Full High-Definition Home Theatre Front Projector

• Breathtaking Colours and Contrast •

Deep, true black level with the industry's highest*¹ native contrast ratio of 30,000:1

The new DLA-HD100 features enhanced 0.7-inch full HD D-ILA devices and an improved optical engine, which allow it to achieve an incredible native contrast ratio of 30,000:1 — the industry's highest!

*¹ As of September 2007. Native contrast ratio of 30,000:1 for home theatre projector class (JVC internal survey).

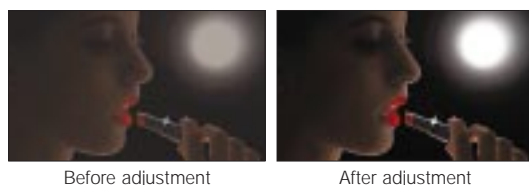
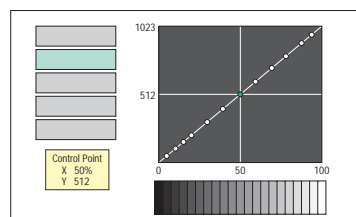
Broader colour space ensures excellent colour rendition

The DLA-HD100 offers significantly improved colour rendition to match its true black level as colour space has been broadened to ensure the reproduction of colours that are more natural and vivid, especially red hues such as those found in images of flowers and sunsets. The adoption of a newly developed colour filter also enhances colour intensity by narrowing the bandwidth of each red, green and blue colour.



User-customisable on-screen gamma control

The DLA-HD100 makes manual adjustment of gamma curve possible via an on-screen display, allowing the viewer to adjust projector luminance levels by increasing contrast in scenes that are too dark or dimming washed-out scenes to ensure precise brightness levels that suit individual preferences.



Genum VXP video processing

The GF9351 video processor from Genum Corporation has been adopted for the video circuitry, its four VXP™ technologies and superior scaling capability help to ensure high-definition picture quality.

HDMI ver. 1.3 (Deep Color) compatibility

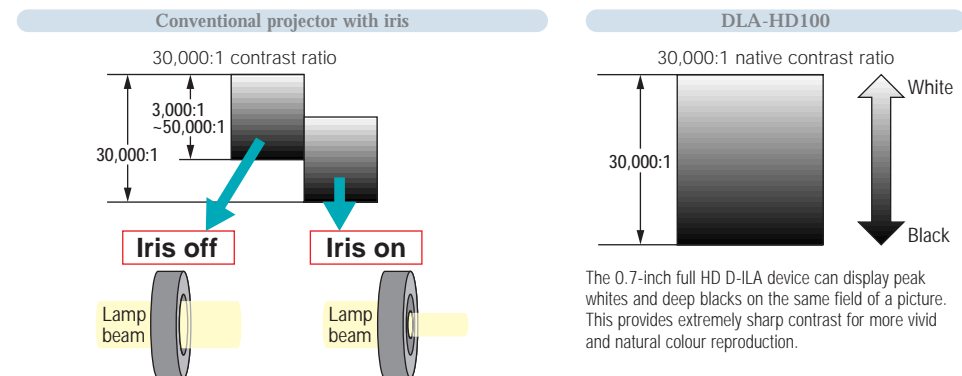
As enhanced connectivity is important for projectors, the DLA-HD100 expands the range of connectable equipment as it now features two HDMI inputs compatible with version 1.3 (Deep Color) specifications and a PC input. What's more, space between the two HDMI connectors is increased to allow for easier connection of wider HDMI cables.



• Superlative Technologies for Ultimate Picture Quality •

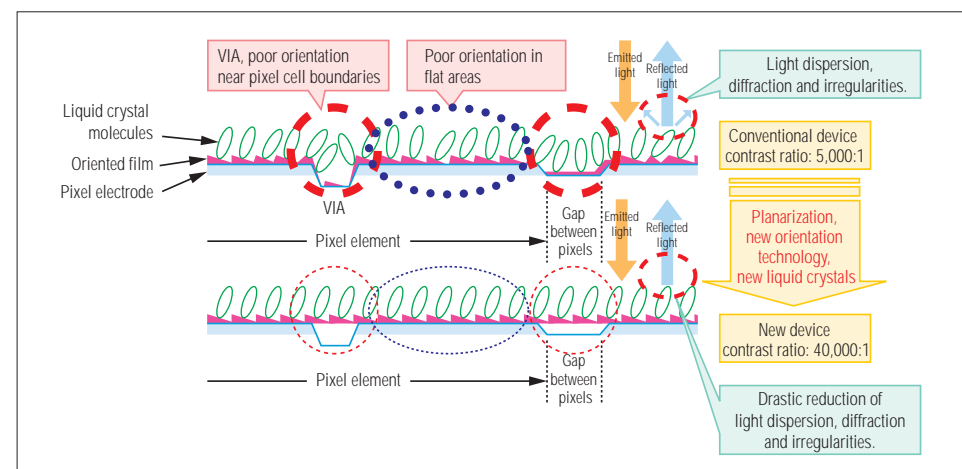
0.7-inch (16:9) full HD D-ILA device

The newly improved device for the DLA-HD100 is designed to significantly reduce stray light caused by phenomena such as the dispersion and diffraction of reflected light. Improvements by JVC on planarization technology — making the surface more even and reducing the gaps between pixels — have enabled a device-only contrast ratio of 40,000 to 1.



The iris is opened for bright scenes to make peak values brighter while at the same time, making black level lighter than it should be.

The iris aperture is reduced for dark scenes to make black level appear darker while at the same time, making peak values darker.



Three D-ILA devices for a smooth, film-like picture

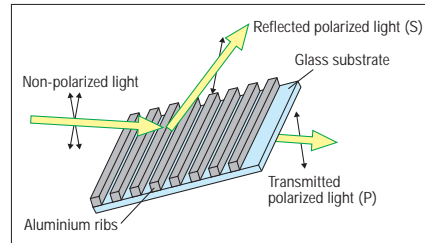
JVC D-ILA technology employs three (RGB) devices for a naturally rich, flicker-free picture without the kind of colour degradation that can often occur with single-device projectors, especially when there is rapid movement in the image. The result is a smoother picture, like that of 35mm film, with fine details all the way to each edge of the screen.



Optical engine with wire grid polarizers

JVC's optical engine with wire grid polarizers dramatically improves the precision of light polarization, helping to prevent light leakage into the projection lens and allowing for true black level reproduction. With a conventional PBS (Polarizing Beam Splitter) — comprised of a glass prism with multilayer interference film — optical properties can vary considerably depending on the angle of the incident light beam, making it difficult to realise high contrast. However, the wire grid design employed by the JVC optical engine uses an inorganic reflective polarizing plate made from a glass substrate on the surface that has ultra-fine aluminium ribs. This unique design keeps the amount of stray light reaching the lens down to an absolute minimum. The combination of this polarizer with the newly developed 0.7-inch full HD D-ILA device enabled the DLA-HD100 to realise a 30,000:1 native contrast ratio.

The optical engine also ensures that all colours are vividly reproduced with smooth gradations and minimal noise, heightening viewing enjoyment especially when watching movies. Furthermore, because vertically oriented liquid crystals are used for the D-ILA device, it is possible to increase the level of normal black images to true black. And, irrespective of brightness levels, consistent response is assured to allow for the reproduction of a wide range of intermediate colours.



How the wire-grid polarizer works

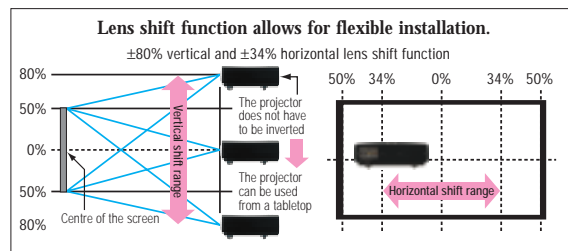
High-performance 2x motorised zoom lens

The high-performance 2x motorised zoom lens found on the DLA-HD100 is made by Fujinon Corporation and features a large-diameter, all-glass lens assembly with 16 elements in 13 groups. Motorised focus also allows you to enjoy razor-sharp image reproduction in every viewing situation even in smaller rooms as only a distance of 3 metres (at a projection distance of 3.1 to 6.2 metres) is required to properly display images at a 100-inch screen size. Best of all, the high-performance motor makes even tedious zoom and focus adjustments a breeze.

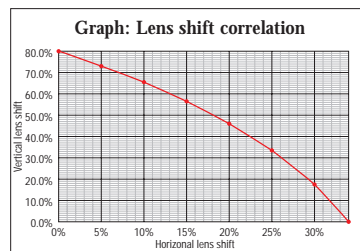


Flexible set-up

Setting up the DLA-HD100 is easy too as $\pm 80\%$ vertical and $\pm 34\%$ horizontal lens shift function allows the projected picture to be moved horizontally or vertically without having to physically reposition the projector.



The vertical and horizontal lens shift function cannot be set to the maximum values simultaneously.



* Fujinon is a registered trademark of Fuji Photo Film Co., Ltd.

Full 2.35:1 wide cinematic movie enjoyment

On conventional projectors, 2.35:1 wide cinematic films are displayed letterboxed with black bars on the top and bottom of the screen but thanks to the V-stretch mode, images produced by the DLA-HD100 are expanded vertically. And by using a third-party anamorphic lens, the picture can also be stretched to a full 2.35:1 ratio just as can be seen in a movie theatre.



Self-illuminating remote control

The buttons on the handy self-illuminating remote control light up automatically, making it easy to operate even in a dark room. The remote control also includes direct keys to adjust frequently used functions such as contrast and brightness, in addition to video input selection.



Handy video adjustment menu

A convenient and detailed video adjustment menu allows you to easily adjust the picture to suit the source video and your own preferences.



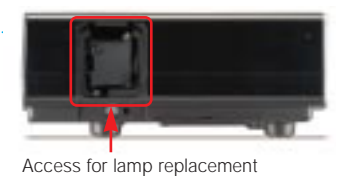
Air intake and exhaust vents on the front of the unit

Installing a projector on the ceiling was sometimes problematic because of the top cooling vents, but JVC has skilfully positioned both air intake and exhaust vents at the front of the unit to let you easily install the DLA-HD100 anywhere — on the ceiling, right up against a wall, or even on top of a table. And the improved cooling design keeps fan noise down to about 24dB so that everyone can better enjoy what's being shown.



Access panel for the replaceable lamp on the side

Another thoughtful design feature is the access panel for the replaceable lamp, which is located on the side of the projector to make replacement easy.



Access for lamp replacement



TRUE BLACK, TRUE COLOURS HD100
INTELLIGENT PROJECTION SYSTEM

DLA-HD100

Full HD D-ILA front projector with 30,000:1 native contrast ratio, broader colour space for excellent colour rendition, high-performance video processor, flexible set-up and an array of user-friendly features.

D-ILA



HDMI
x2 (v. 1.3)



TRUE BLACK HD1

INTELLIGENT PROJECTION SYSTEM



DLA-HD1BE



DLA-HD1WE

Award-winning Full HD D-ILA front projector offering a native contrast ratio of 15,000:1 and equipped with a high-performance video processor, promising breathtaking picture presence that rivals what's shown in a movie theatre.

D-ILA



Basic Features

- Three 0.7" Full HD D-ILA devices
- Input signal capability: 1080p
- Full HD resolution: 1920 x 1080p
- 200W UHP (ultra high-pressure mercury) lamp
- Projector distance: 3.0 to 6.1m (100-inch)
- Terminals: RS232C x 1, HDMI x 2 (v.1.2a), Component x 1, S-Video x 1, Composite x 1

Product Highlights

- Native contrast ratio of 15,000:1 realised with a combination of an original full HD D-ILA device and optical engine.
- Equipped with 10-bit VXP video processor by Gennum that provides drastic improvement in picture resolution and colour reproduction.
- Supports 1920 x 1080p 60Hz PC signal format via an HDMI-DVI cable.
- Installation flexibility with lens shift of +/-80% vertically and +/-34% horizontally, high performance Fujinon lens with 2x manual zoom, and air-intake and vent located at the front of the projector.
- User-friendly design with easy-to-control GUI menu, array of input terminals, replacement lamp located on the side of unit, and self-illuminating remote controller.
- Available in two colours.

DLA-HD1



Projection Distance Chart

Display size (16:9)			Projection distance	
Inch	W (mm)	H (mm)	Wide (m)	Tele (m)
60	1,328	747	1.78	3.63
70	1,549	872	2.09	4.24
80	1,771	996	2.40	4.86
90	1,992	1,121	2.71	5.47
100	2,214	1,245	3.01	6.08
110	2,435	1,370	3.32	6.70
120	2,656	1,494	3.63	7.31
130	2,878	1,619	3.93	7.93
140	3,099	1,743	4.24	8.54
150	3,320	1,868	4.55	9.16
160	3,542	1,992	4.86	9.77
170	3,763	2,117	5.16	10.38
180	3,984	2,241	5.47	11.00
190	4,206	2,366	5.78	11.61
200	4,427	2,490	6.08	12.23

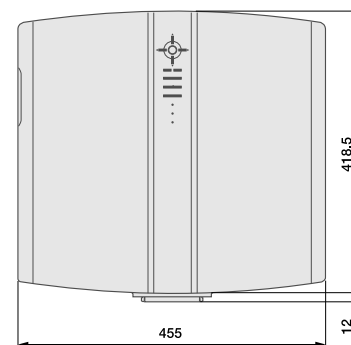
*Projection distances are design specifications, so there is ±5% variation.

Specifications

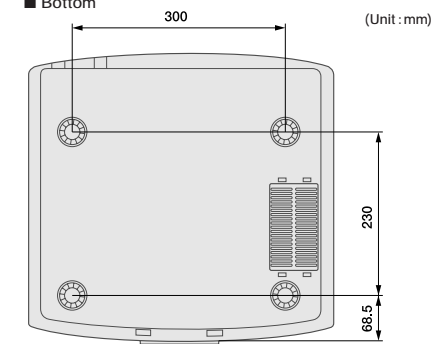
	DLA-HD100	DLA-HD1
Display device	Full HD D-ILA device	
Panel size	0.7 inch x 3 (16:9)	
Resolution	1,920 x 1,080 pixels	
Lens	2x motorised zoom/focus lens f=21.3-42.6mm F=3.2-4.3	2x manual zoom/focus lens f=21.3-42.6mm F=3.2-4.3
Projection size	60 inches to 200 inches	
Lens shift function	±80% vertical and ±34% horizontal	
Light source lamp	200-watt ultra high-pressure mercury lamp	
Light output	600 lm	700 lm
Contrast ratio	Native: 30,000:1 (Device 40,000:1)	Native: 15,000:1 (Device 20,000:1)
Input terminals (back panel)	HDMI x 2 (ver. 1.3) Component x 1 (3 RCA) can also be used as an RGB terminal. S Video terminal (mini DIN4 pin) x 1 Composite x 1 (1 RCA terminal) PC input x 1	HDMI x 2 (ver. 1.2a) Component x 1 (3 RCA) can also be used as an RGB terminal. S Video terminal (mini DIN4 pin) x 1 Composite x 1 (1 RCA terminal)
Control terminals	RS-232 (D-sub, 9-pin)	
Video input signals	480i/p, 576i/p, 720p60/50, 1080i60/50, 1080p60/50/24, NTSC/NTSC4.43/PAL/PAL-M/PAL-N/SECAM	
Noise level	24dB (in normal mode)	25dB (in normal mode)
Power consumption	280W (2.7W in stand-by)	280W (2.7W in stand-by)
Dimensions (W x H x D)	455 x 172.5 x 418.5mm (without extrusions)	
Weight	11.6 kg	

External dimensions

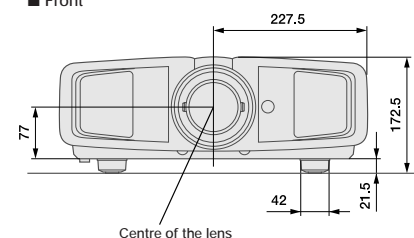
■ Top



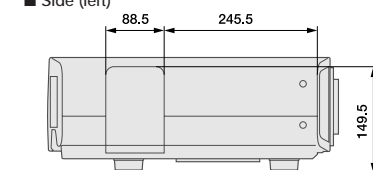
■ Bottom



■ Front



■ Side (left)



Rear terminals



Optional Accessory



User-replaceable Lamp
BHL5009-S

The projector is equipped with a high-pressure mercury lamp, which may break, emitting a loud noise, when it is subjected to shock or after it has been used for a prolonged length of time.

Please note that, depending on how the projector is used, there will be considerable disparity between individual lamps on how long they will operate before replacement is required. The owner of the projector is responsible for all costs related to the replacement of the lamp. Design and specifications are subject to change without notice.

- The projector lamp requires periodic replacement and is not covered by warranty.
- Please note that, although the D-ILA device is manufactured using highly advanced technologies, 0.01% or fewer of the pixels may be non-performing.

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