

For the Japanese Market Only:

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### Industry Highest<sup>1</sup> 15,000:1 Native Contrast Delivers True Black Reproduction Without Losing Brightness

### JVC Introduces D-ILA High-Definition Home Theatre Projection System DLA-HD1 Features New 0.7-in. Full High-Definition D-ILA Device and a New Optical Engine

Victor Company of Japan, Ltd. (JVC) announces the upcoming release of the DLA-HD1, a new D-ILA High-Definition Home Theatre Projection System. Thanks to a native contrast ratio of 15,000:1, the highest<sup>1</sup> in the industry without an iris mechanism, the DLA-HD1 realizes true black reproduction without losing any picture brightness — the key to really bringing out the feeling of presence high-definition content is meant to have. The high native contrast was achieved through the combined use of a newly-developed 0.7-in. full HD (1920 x 1080 pixels) D-ILA device and a new optical engine.

\*1 Native contrast of 15,000:1 for home theatre projector class (JVC survey as of 14 November 2006).

Product Name	Product Code	MSRP (Tax Included)	Release Date
D-ILA Home Theatre Projection System	DLA-HD1	¥798,000	Late January 2007



#### Main Features

#### 1. Thanks to the industry's highest<sup>1</sup> native contrast ratio of 15,000:1, true black reproduction without an iris mechanism

This new home theatre projection system features a newly-developed 0.7-inch full HD D-ILA device with a device contrast ratio of 20,000:1. Combined with a new optical engine, the projector achieves the industry's highest<sup>1</sup> native contrast ratio — 15,000:1.

##### (1) Newly-developed 0.7-in. full HD D-ILA device

The device exhibits a significant reduction in stray light caused, among others, by the dispersion and diffraction of reflected light. JVC decreased orientation irregularities through flattening the gaps between pixels, adopted improved liquid crystals and used new orientation technologies. This enabled the device to achieve a device contrast ratio of 20,000:1.

- (2) New optical engine uses wire grid polarizers

The new optical engine dramatically improves the precision of light polarization, preventing light leakage into the projection lens; thus allowing the closest to true black reproduction.

## **2. Flexible setup enabled by high performance 2x zoom lens and front fan intake and exhaust**

- (1) The projection lens features a large diameter, all-glass lens with 16 elements in 13 groups made by Fujinon Corporation. The lens significantly reduces chromatic aberration and ensures a high resolution picture, with every point on the screen perfectly in focus. Also, the high performance 2x zoom lens enables users to enjoy a powerful, large image even in smaller rooms that do not permit typical recommended distances to the screen.

- (2) The projection system features an 80% vertical and 34% horizontal lens shift function, details shown in figure 1.

- (3) Using front fan intake and exhaust for the cooling system does not limit choices for projector location. The simple and clean design leaves only interface connections on the back panel giving users flexibility in deciding where to put the projector. For example, the DLA-HD1 can be placed next to a wall if ceiling mounting is not possible. Furthermore, the lamp is easy to access and replace from the side panel where ever the projector is located — ceiling mount or tabletop.

## **3. Gennum Corporation video processor in image processing circuit reproduces high quality images faithfully.**

At the core of the video processing, the projection system features the GF9351, a video processor by Gennum Corporation. The video processor ensures the faithful reproduction of high-quality images thanks to a high-precision scaling function and four VXP™ technologies that are detailed in figure 2.

## **4. Improved user friendliness through convenient and detailed video adjustment menu and illuminated remote control**

- (1) The projection system features a convenient video adjustment menu that allows users to adjust the picture according to the source video and their own preferences.

- (2) The buttons of the remote control light up, making it easy to operate even in a dark room. The remote control includes direct keys to adjust frequently used functions such as contrast and brightness, in addition to video input selection.

## **5. Luxurious and stylish design**

The projector's body comes in a luxurious shiny white color and features a sleek, symmetric form that smoothly matches any room's interior decoration.

## Development Concept

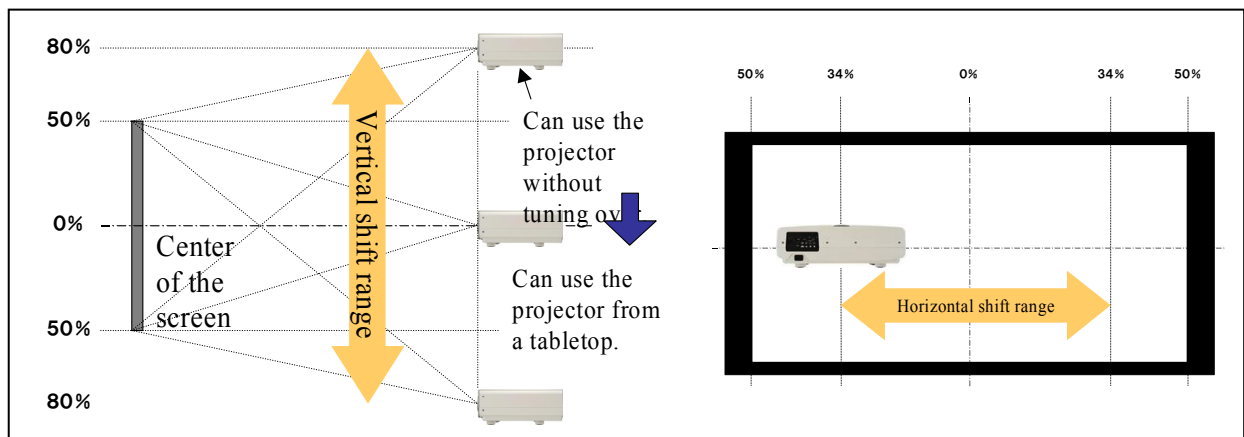
The ever expanding range of terrestrial and satellite digital broadcasts and the arrival of the next-generation DVDs resulted in increasing popularity of HD content. This led to growing market needs for systems that allow the whole family to enjoy this HD content on large screens of over 80 to 100 inch sizes.

Meanwhile the JVC series of D-ILA home theatre projection systems, including the HD11K / HD11KL / HD12K / HD12KL models released at the end of last year, are widely acclaimed for the smooth, film-like, high-resolution image of full high-definition D-ILA devices.

JVC designed and developed the DLA-HD1 as a full HD projection system providing true black reproduction without losing any picture brightness — the key to really bringing out the feeling of presence high-definition content is meant to have.

The DLA-HD1 features a newly-developed 0.7-in. full HD D-ILA device, which combined with a new optical engine, realizes the industry's highest<sup>1</sup> native contrast ratio — 15,000:1 without using any iris mechanism. Furthermore, the inclusion of a lens shift mechanism and front fan intake and exhaust really add to user options for positioning the projector. Users are not limited to installing the projection system in a dedicated home theatre room; they can just as easily enjoy a large-screen, high-definition theatre in a wide range of locations.

**Figure 1. 80% vertical, 34% horizontal lens shift function**



\*The vertical and horizontal lens shifts cannot be set to maximum values at the same time.

**Figure 2. Four VXP™ Technologies**

### FineEdge™

Edge correction technology that gets rid of the jaggy artifacts so common to diagonal lines, creating instead smooth outlines.

### FidelityEngine™

Imaging technology that improves detail while reducing noise. This technology ensures a clear, detailed playback picture even for video sources with lower resolutions.

### TruMotionHD™

De-interlacing technology that supports HD signals (1080i), converting them to high-quality 1080p signals for playback.

### RealityExpansion™

10-bit image processing technology. This technology can upsample 4:2:2 (Y:Cb:Cr) video signals to 4:4:4 format, and delivers outstanding image processing at a level comparable to that of broadcast masters.



## Specifications

Display device	Full HD D-ILA device
Panel size	0.7 inch x 3 (16:9)
Resolution	1,920 x 1,080 pixels
Lens	X2 manual zoom/focus lens f=21.3-42.6mm F=3.2-4.3
Projection size	60 inch – 200 inch
Lens shift function	80% vertical and 34% horizontal
Light source lamp	200-watt ultra high pressure mercury lamp
Light output	700 lm
Contrast ratio	15,000:1
Video Input Terminals	HDMI x 2
	Component x 1 (3RCA) can also be used as a RGB terminal.
	S Video terminal (mini DIN4 pin) x 1
	Composite x 1 (1RCA terminal)
Control Terminals	RS-232 (D-sub9 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	25dB (in normal mode)
Power Consumption	280-watt (2.7-watt while in stand-by)
Dimensions (W x H x D)	455 x 172 x 418mm (without extrusions)
Mass	11.6kg
Provided accessories	Power source cable x 1, self-lightening remote-control x 1, AAA size batteries, and lens cap

## 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.

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