

# JVC<sup>®</sup>

The Perfect Experience / —

DEDICATED WIDESCREEN  
**DLA-HX2E**  
PROJECTOR WITH HDCP



**D-ILA<sup>®</sup>**



*Cinematic Experience*



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# Enter a new dimension of home cinema entertainment with JVC's D-ILA technology

## — Bring Hollywood into your home

With JVC's 3-chip D-ILA technology, you'll enjoy the same kind of smooth, naturalistic pictures you would see in a cinema.

This film-like quality, together with excellent colour reproduction and high contrast of 1500:1, brings true Hollywood excitement to your home cinema.

*JVC—The originator of D-ILA technology*

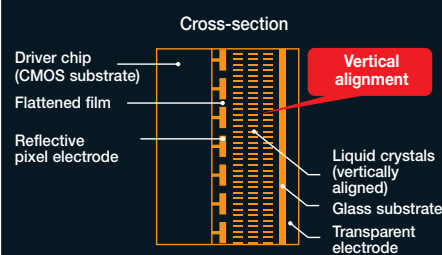
### ■ Three D-ILA chips for smooth, flicker-free high-resolution images

Three reflective 1.1-megapixel WXGA-PLUS 16:9 (1400 x 788) D-ILA chips enable the DLA-HX2 to produce superior native resolution. JVC's original 3-chip D-ILA (Direct Drive Image Light Amplifier) technology produces rich, natural colours without the annoying flicker or "rainbow effect" that plagues single panel projectors. Images are as smooth as film, boasting incredible detail and vibrant, breathtakingly natural colours.

### ■ Cinema-like screen pictures without any visible pixels or line structure

Unlike transmissive liquid crystal technologies, there are no visible pixel or line structures with JVC's D-ILA chips. This noticeable absence of visible image structure adds enormously to your appreciation of both the film quality resolution and the totally natural colours.

D-ILA element structure



## Superior colour reproduction

### ■ Natural colour reproduction

JVC's unique optical engine produces rich, natural colours with smooth gradations and low noise. With colour temperature set to the D65 standard, source media can be faithfully reproduced with the same gradations as the original. As a result, all colour gradations are natural and consistent, ensuring optimal cinema reproduction.

### ■ Analogue gradation technology

JVC's exclusive AG (Analogue Gradation) technology produces highly accurate gradations with low noise, particularly in darker areas of less than 20% brightness.

### ■ High contrast ratio of 1500:1

High contrast of 1500:1 for excellent grey-scale reproduction enables reproduction of high-precision, high-quality pictures with the subject details clearly visible even in the darkest of scenes.

### ■ Reproduction of 100% true black

As the D-ILA's liquid crystals are aligned vertically, the pixels are "normally black" when no voltage is applied. As a result, D-ILA technology reproduces blacks that are truly black. It also offers a uniform response, irrespective of brightness, displaying a wide range of intermediate tones.

### ■ 4-colour profile mode

The DLA-HX2 is equipped with a 4-colour profile mode to ensure colour reproduction with greater fidelity to the original. In addition, it supports a wider variety of colours, enabling it to render image colours that closely match the original source.

## 3-chip superiority

### ■ True, full colour imaging

Lower-cost, single-chip models rapidly project the picture one colour at a time and rely on the viewer's eye to blend alternating flashes of red, green and blue images into desired colours. 3-chip projectors, on the other hand, simultaneously produce images on separate RGB panels inside the projector and then re-combine the three light beams to project a true, full colour image which is totally free of visual artefacts.

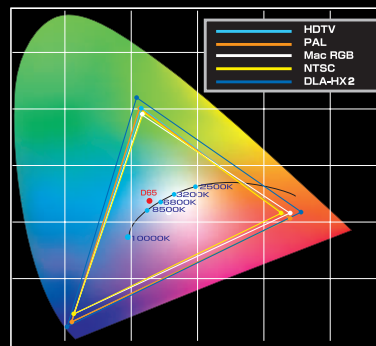
### ■ More stable image

3 chips produce better, more stable images, free of flicker and annoying "rainbow" artefacts.

### ■ Superior colour reproduction and smoother images

When compared to single-chip models, 3-chip D-ILAs offer superior colour reproduction, better gradation, and any annoying "rainbow" artefacts.

### ■ DLA-HX2U Colour Coordinates



### ■ Comparison of gradation characteristics



(accurate colours with absolute white and black)



Conventional projector (bluish white and reddish black)

### ■ Comparison of colour reproduction



Original picture

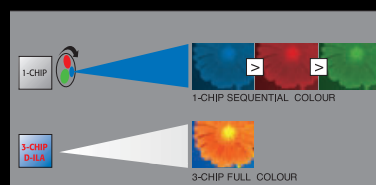


Conventional projector  
(foreground colours are influenced by background colours)



DLA-HX2  
(accurate colours)

### ■ Three chips project a full-colour image



## High-performance projection

### ■ JVC's original D.I.S.T. (Digital Image Scaling Technology)

JVC's exclusive D.I.S.T. technology consists of IP conversion, pixel density conversion and enhancer technology. D.I.S.T. fully exploits the advantages of progressive scanning by converting interlace signals to progressive signals. This increases image information relative to the number of pixels to provide smooth, high-definition images.

### ■ DVI-D plug-and-play with HDCP\* interface

An HDCP decoder is built-in to allow the highest quality digital-to-digital signals to be projected without any of the image degradation caused by conversion in and out of the analogue domain.

\*HDCP = High-bandwidth Digital Content Protection

### ■ Compatible with a wide range of HDTV formats

Besides the DVI-D digital input, there is compatibility with a wide range of other HDTV signal formats, including 1080/24, 25 & 30 PsF\*, 1080i, 720P & 480P

\*PsF = Progressive Segmented Frame

## User-friendly design



### ■ Easy installation

Extremely compact and weighing a mere 5.9 kg, the DLA-HX2 is easy to install and set up. An NSH (high-pressure mercury) lamp keeps running costs to a minimum and has an operational life of around 2,000 hours. The lamp and air filter can be easily accessed and replaced without removing the projector from its mount.

### ■ GUI on-screen display

A GUI on-screen menu lets you make quick adjustments to various settings. Two menu layers ensure simple, systematic setting operation.



## Specifications

### SYSTEM

Image Device	3-chip D-ILA® (0.7-inch diagonal)
Projection Lens	Zoom lens (2:1 ~ 2.6:1, manual zoom/manual focus, 53.3% offset)
Resolution	1400 x 788 pixels (1.1M pixels)
Aspect Ratio	16:9
Contrast	1500:1
Scanning Frequency	
Horizontal:	15 ~ 120kHz
Vertical:	24, 25, 30, 50 ~ 120Hz
Screen Size (width)	0.8m ~ 6.1m (2.6ft ~ 20ft)
Throw Distance	1.6m ~ 12.1m (5.1ft ~ 39.8ft)
Lamp	250W, NSH (Model No. BHL5006-S)
Still	Freeze
Colour Temperature	D65/HIGH/user selectable
On-screen Display	8 languages: Japanese, English, German, Spanish, Italian, French, Portuguese, and Korean
Speaker	1W

### INPUT SIGNALS

Component	Y, Pb/B-Y, Pr/R-Y, 480P, 720P, 1080i, 1080/24PsF, 25PsF, 30PsF, 1035i (HDTV)
Composite	NTSC, PAL, SECAM, NTSC4.43
RGB/RGBHV	VGA, SVGA, XGA, WXGA+ (1400 x 788), SXGA/SXGA+ (resized to 16:9 aspect ratio)
DVI-D	480P, PAL-P, 720P, 1080i, VGA, SVGA, XGA, WXGA+ (1400 x 788), SXGA/SXGA+ (resized to 16:9 aspect ratio)* * HDCP is compatible with 480P, PAL-P, 720P (50 Hz/60 Hz) and 1080i (50 Hz/60 Hz).

### INPUT TERMINALS

Video	3 sources: BNC (Y/Pb/Pr, same as RGB), RCA, S-terminal
Digital	1 source: DVI-D (HDCP)
RGB	2 sources: BNC (PC2), D-sub 15-pin (PC 1)
Audio	1 source: Mini jack

### CONTROL TERMINALS

Serial Input	1 source (RS-232C, D-sub 9-pin)
Serial Output	1 source (RS-232C, D-sub 9-pin)
Remote	1 source (wired remote mini jack) Discrete IR codes
Screen Trigger	1 source (12V 100mA)

### GENERAL

Dimensions (WHD)	298 x 134 x 360mm
Weight	5.9kg
Power Requirement	100 ~ 240V AC, 50/60Hz
Power Consumption	340W

EMC Class B approved.

## Connectors



## Provided Accessories

•Quick Guide •Instructions (CD-ROM) •Warranty Card •Power Cord •Remote Control (RM-MSX21) •Two AA/R6-size Battery •AV Connection Cable (Approx. 2m; RCA Pin Plug) •Terminal Cable for Screen Trigger

## Throw Distance vs. Screen Width

Screen Size		Throw Distance	
Width	Diagonal	Wide	Tele
0.81m (32")	0.92m (37")	1.56m (5'1")	2.05m (6'9")
1.22m (48")	1.39m (55")	2.37m (7'9")	3.10m (10'2")
1.52m (60")	1.74m (68")	2.98m (9'9")	3.89m (12'9")
1.73m (68")	1.98m (78")	3.38m (11'1")	4.41m (14'6")
1.83m (72")	2.09m (82")	3.58m (11'9")	4.68m (15'4")
1.93m (76")	2.21m (87")	3.79m (12'5")	4.94m (16'2")
2.44m (96")	2.79m (110")	4.80m (15'9")	6.25m (20'6")
3.05m (120")	3.49m (137")	6.01m (19'9")	7.83m (25'8")
3.66m (144")	4.19m (165")	7.22m (23'8")	9.41m (30'10")
3.96m (13')	4.65m (183")	8.03m (26'4")	10.46m (34'4")
4.88m (16')	5.60m (220")	9.65m (31'8")	12.56m (41'3")
6.10m (20')	7.00m (275")	12.08m (39'8")	-

Recommendable for performance is about 2m~8m

JVC has made available an interactive lens and throw distance calculator on the following website, which you are recommended to visit: [www.jvcdig.com](http://www.jvcdig.com)

## Dimensions

### DLA-HX2

unit : mm

