

# JVC®

The Perfect Experience / —

3-CHIP D-ILA® PROJECTOR  
DLA-HX2U



*Cinematic Experience*



# *Enter a new dimension of home theater excitement with JVC's D-ILA technology — true Hollywood excitement for 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 color reproduction and high contrast of 1500:1, brings true Hollywood excitement to your home theater.

## *JVC's original D-ILA technology*

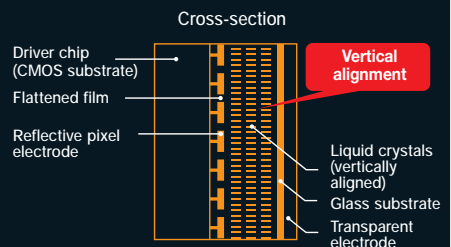
- Three D-ILA chips for smooth, flicker-free high-resolution images

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 colors 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 colors.

- Cinema-quality picture with no visible grid

Unlike transmissive liquid crystal technologies, there is no visible grid or "screen door effect" with JVC's D-ILA. You can enjoy the benefits of both film-like resolution and accurate reproduction of natural colors.

D-ILA element structure





## Superior color reproduction

### ■ Natural color reproduction

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

### ■ Analog gradation technology

JVC's exclusive AG (Analog 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 gray-scale reproduction enables reproduction of high-precision, high-quality pictures without black paint even when the scene on screen is dark.

### ■ True black reproduction

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-color profile mode

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

## 3-chip superiority

### ■ Full color image on the screen

Lower-cost, single-chip models rapidly project the picture one color at a time and rely on the viewer's eye to blend alternating flashes of red, green and blue images into desired colors. 3-chip projectors, on the other hand, simultaneously produce images on separate RGB panels inside the projector and then combine the light beams, projecting a full color image on the screen.

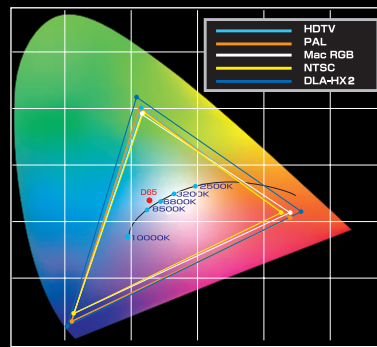
### ■ More stable image

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

### ■ Superior color reproduction and smoother images

When compared to single-chip models, 3-chip D-ILAs offer superior color reproduction, better gradation, and smoother images at a competitive cost.

### ■ DLA-HX2U Color Coordinates



### ■ Comparison of gradation characteristics



(accurate colors with absolute white and black)



Conventional projector (bluish white and reddish black)

### ■ Comparison of color reproduction

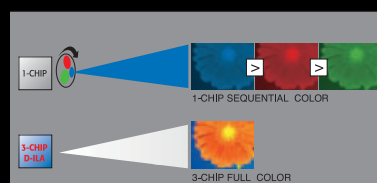


Conventional projector  
(foreground colors  
are influenced by  
background colors)



DLA-HX2  
(accurate colors)

### ■ Three chips project a full-color 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 (HDCP)

Enables digital-to-digital input for high-quality image reproduction without degradation.

### ■ 480P, 720P, 1080i, 1080/24, 25 and 30PsF, HDTV format compatibility

In addition to DTV signals, analog signals including 480P, 720P, 1080i, 1080/24, 25 and 30PsF and HDTV formats can be accepted.

## User-friendly design

### ■ Easy installation



Extremely compact and weighing a mere 13 lbs. (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 lasts for about 2000 hours of operation. The lamp and air filter can be easily accessed and replaced without removing the projector from the 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)
Brightness	500 ANSI lumens
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)	2.6ft ~ 20ft (0.8m ~ 6.1m)
Throw Distance	5.1ft ~ 39.8ft (1.6m ~ 12.1m)
Lamp	250W, NSH (Model No. BHL5006-S)
Still	Freeze
Color 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, 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)	11.7" x 5.6" x 14.1" (298 x 134 x 360mm)
Weight	13 lbs (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. 6.5ft/2m; RCA Pin Plug) •Terminal Cable for Screen Trigger

## Throw Distance vs. Screen Width

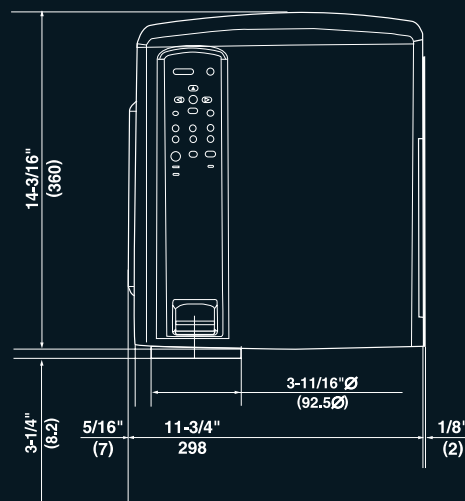
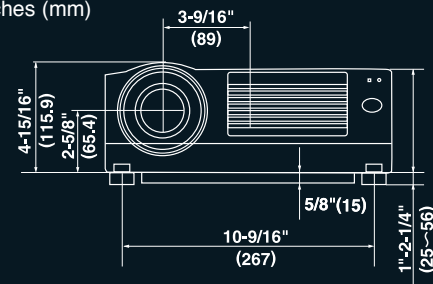
Screen Size		Throw Distance	
Width	Diagonal	Wide	Tele
32" (0.81m)	37" (0.92m)	5'1" (1.56m)	6'9" (2.05m)
48" (1.22m)	55" (1.39m)	7'9" (2.37m)	10'2" (3.10m)
60" (1.52m)	68" (1.74m)	9'9" (2.98m)	12'9" (3.89m)
68" (1.73m)	78" (1.98m)	11'1" (3.38m)	14'6" (4.41m)
72" (1.83m)	82" (2.09m)	11'9" (3.58m)	15'4"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

Recommendable for performance is about 2m~8m (6.6ft~26.2ft)

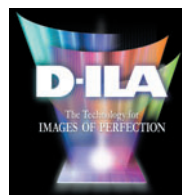
## Dimensions

### DLA-HX2

unit : Inches (mm)



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### JVC PROFESSIONAL PRODUCTS COMPANY

DIVISION OF JVC AMERICAS CORP.

1700 Valley Road, Wayne, N.J. 07470

TEL: (973) 317-5000, (800) 582-5825 Fax: (973) 317-5030

Internet Web Site <http://www.jvc.com/pro>

E-mail: [proinfo@jvc.com](mailto:proinfo@jvc.com)

### JVC CANADA INC.

21 Finchdene Square, Scarborough, Ontario M1X1A7

Tel: (416) 293-1311 Fax: (416) 293-8208

Internet Web Site <http://www.jvc.ca/en/pro/>

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