

JVC's Native High Definition Projector.

Your ticket to a new level in home theater reality.



# DLA-HX2U

3-CHIP 16:9 D-ILA® PROJECTOR

D65



# JVC®

The Perfect Experience / —

[www.jvc.com/pro](http://www.jvc.com/pro)

# Bring the magic of Hollywood into your home.

The new DLA-HX2U projector raises the bar in home theatre performance to new heights. Thanks to JVC's remarkable 3-chip D-ILA technology, picture quality has never been more lifelike and colors have never been more vivid. The patented D-ILA chips deliver 1400 x 788p Native High Definition Resolution and a high contrast ratio of 1500:1. It all translates into capturing the incredible feeling and excitement of the cinema right in your very own home theatre.

## JVC's original D-ILA technology

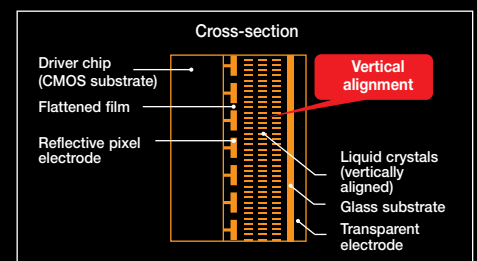
### ■ Three D-ILA chips for smooth, flicker-free high-resolution images

Three reflective 1.1-megapixel WXGA-PLUS 16:9 (1400 x 788) D-ILA chips enable the DLA-HX2U 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.

### Comparison of gradation characteristics



(accurate colors with absolute white and black)



Conventional projector (bluish white and reddish black)

### 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.

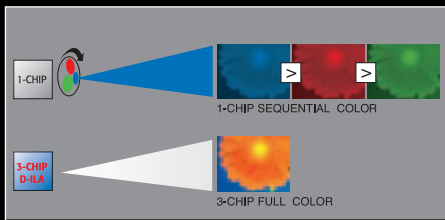
### High contrast ratio of 1500:1

High contrast ratio of 1500:1 for full range gray-scale reproduction enables the display of subtle details in the blacks and shows the depth to the image even when the scene 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, which displays a wide range of intermediate tones.

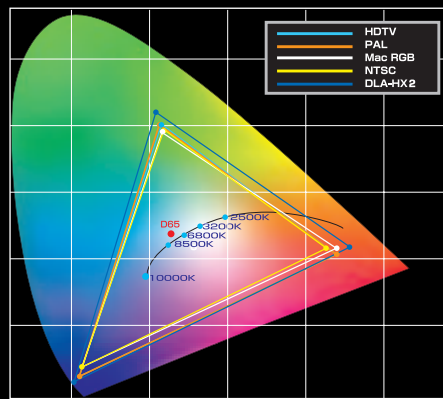
### Three chips project a full-color image



### 4-color profile mode

The DLA-HX2U 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.

### DLA-HD2K color coordinates

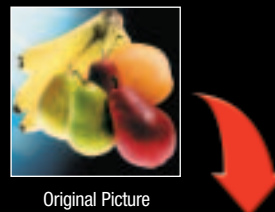


## 3-chip superiority

### Full-color image on the screen

Lower-priced, 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.

### Comparison of color reproduction



Conventional Projector  
(foreground colors  
are influenced by background colors)



DLA-HX2U  
(accurate colors)

### More stable image

Three 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.

## 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 signal degradation.

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

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



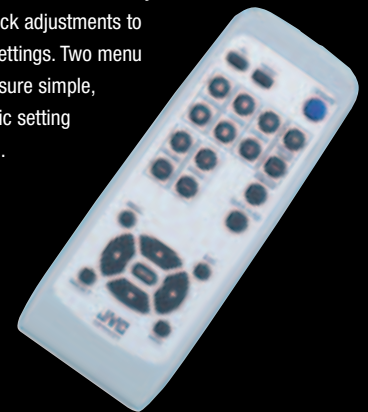
## User-friendly design

### Easy installation

Extremely compact and weighing a mere 13 lbs. (5.9 kg), the DLA-HX2U is easy to install and set up. An NSH (high-pressure mercury) lamp keeps running costs to a minimum and lasts for about 2,000 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)
Altitude Specification	Up to 5,000 feet
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, 480i, 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, shared with 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

Replacement Lamp Model Number: BHL5006-S

### CONNECTORS



## THROW DISTANCE vs. SCREEN WIDTH

Screen Size				Throw Distance			
Width		Diagonal		Wide		Tele	
ft.	m	in.	m	ft.	m	ft.	m
32"	0.81	37"	0.92	5'1"	1.56	6'9"	2.05
48"	1.22	55"	1.39	7'9"	2.37	10'2"	3.10
60"	1.52	68"	1.74	9'9"	2.98	12'9"	3.89
68"	1.73	78"	1.98	11'1"	3.38	14'6"	4.41
72"	1.83	82"	2.09	11'9"	3.58	15'4"	4.68
76"	1.93	87"	2.21	12'5"	3.79	16'2"	4.94
96"	2.44	110"	2.79	15'9"	4.80	20'6"	6.25
120"	3.05	137"	4.49	19'9"	6.01	25'8"	7.83
144"	3.66	165"	4.19	23'8"	7.22	30'10"	9.41
13'	3.96	183"	4.65	26'4"	8.03	34'4"	10.46
16'	4.88	220"	5.60	31'8"	9.65	41'3"	12.56
20'	6.10	275"	7.00	39'8"	12.08	-	-

Recommendation for performance is about 2m–8m (6.6ft–26.2ft)

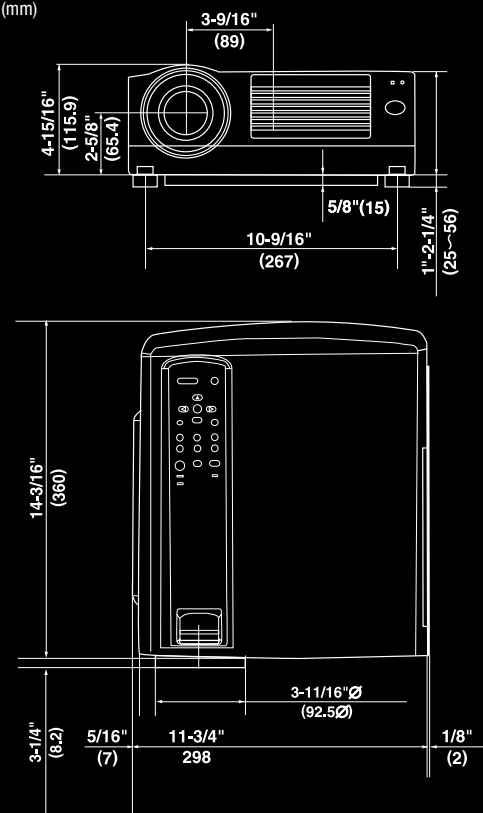
## PROVIDED ACCESSORIES

- Quick Guide • Instructions (CD-ROM) • Warranty Card • Power Cord
- Remote Control (RM-MSX21) • Two AA/R6-size Batteries • AV Connection Cable (Approx. 6.5ft/2m; RCA Pin Plug) • Terminal Cable for Screen Trigger

## DIMENSIONS

### DLA-HX20

unit : inches (mm)



# JVC®

Representative home cinema environment provided by  
Bradford Wells + Associates, Los Angeles, CA.

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