

# JVC®

The Perfect Experience / —

D-ILA® HD SYSTEM  
(3-CHIP D-ILA® Projector + Video Processor)

# DLA-HD2K



## A Movie Theater @ Home

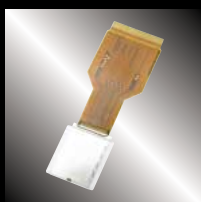
Extreme HD! 1920 x 1080 Pixels Native Resolution.

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# For Those Unwilling to Compromise, Enjoy Quality Beyond Description with Full HD Resolution.

## Native 1920 x 1080 D-ILA Chips



Thanks to the newly developed HD D-ILA devices, the native resolution of the DLA-HD2K is 1920 x 1080, the highest widescreen resolution available today for home theater projector applications\*. This makes the system suitable not only for high-end home theater use but also for critical viewing venues such as museums and post-production screening rooms.

\*As of February 2004.

## D-ILA: The Most Advanced LCOS Technology Available

JVC pioneered the use of LCOS (Liquid Crystal on Silicon) technology and is the world's leading supplier of LCOS projectors. JVC's patented D-ILA chips are the most highly refined form of LCOS, offering unique performance characteristics not found elsewhere. The DLA-HD2K also boasts optimum color illumination and a newly developed projection lens for its optical system that is explained below. This combination of advanced technologies allows the DLA-HD2K to realize a high contrast ratio of 2000:1 and breathtaking color reproduction.

■ **Optimum Color Illumination** helps to correct biased light dispersion of the ultra high-pressure NSH lamp by using illumination optics that optimize the f-number for each primary color. This exclusive JVC process ensures accurate contrast of individual colors and a D65 color temperature that provides vivid, natural-looking color reproduction.



■ **Newly Developed Projection Lens** employs a 4-group, 13-layer 100% glass lens with an aluminum tube and anti-flare finish. This high-quality construction embodies JVC's no-compromise approach to answering the performance potential of HD-compatibility. The optimized lens aperture is also carefully calibrated to match the zoom position.



## Cost-effective NSH Lamp



The DLA-HD2K uses a 250W ultra high-pressure mercury NSH lamp that helps to ensure lower running costs. And in most applications, the lamp can be easily changed by the homeowner without removing the projector from its mounts.



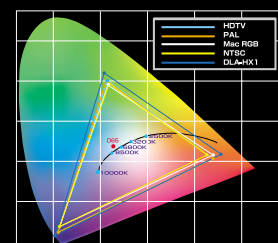


## JVC Exclusive 3-Chip D-ILA (Direct Drive Image Light Amplifier)

- **Three D-ILA chips:** JVC's exclusive 3-chip D-ILA 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:** There is no visible grid or "screen door effect" with JVC's D-ILA. Since the gaps between pixels are not noticeable, the picture is extremely smooth. You can enjoy the benefits of both film-like resolution and accurate reproduction of natural colors.
- **Superior Color Reproduction:** JVC's unique optical engine produces rich, natural colors with smooth gradations and low noise. Color temperature is set at D65, providing optimal cinema reproduction. JVC's exclusive AG\* technology produces highly accurate gradations with low noise, particularly in darker areas of less than 20% brightness.
- **True black reproduction:** One important characteristic of D-ILA devices is that the crystals are aligned vertically, meaning that the D-ILA technology can reproduce blacks that are truly black. It also offers a uniform response, irrespective of brightness, so it can display a wide range of intermediate tones.

\* Analog Gradation

### ● Comparison of gradation characteristics



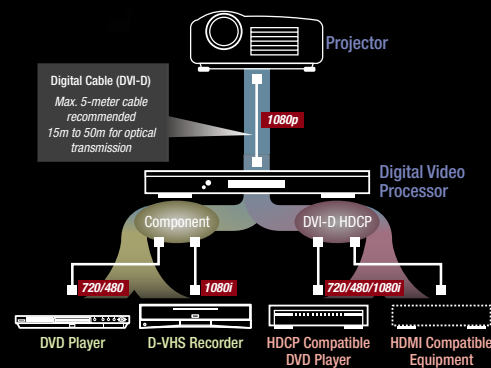
## Exclusive Digital Video Module

The DLA-HD2K is equipped with a digital video module co-developed with Faroudja, a company renowned worldwide for creating powerful processing technologies. This exclusive JVC digital video module can be connected to various sources including 480p, 576i and 720p SD signals as well as 1080i and 1080p HD signals. Faroudja's color matrixing provides accurate color profiles for NTSC and HDTV, allowing the module to convert standard analog and digital DVI video signals to a high-resolution digital video signal that can be transmitted via the DVI-D connector to the projector. This module also allows for detailed video adjustment to suit viewer preferences and user setup between it and the projector can be profiled. Furthermore, the processor features motion adaptive de-interlacing with DCDi and 3-2 pull-down technology to ensure error-free progressive signals.

## Convenient, Space-saving 2-piece Design

Unlike bulky one-piece units, the projector head of the DLA-HD2K is only (xx" X xx" X xx") and weighs a mere 13 lbs. This smaller size allows for less conspicuous and more flexible installation as well as easier ceiling mounting. The projector head is connected to a standard rack-mountable electronics unit by a single zero-loss digital cable (DVI-D) transmitting the 1080/60P signal. The projector head and electronics unit can be separated by up to 160 feet — an ideal configuration that keeps the cabling to other electronic components to an absolute minimum while preserving full digital quality at the projector head.

### Remote controllers



## SPECIFICATIONS

### PROJECTOR

Image Device	3-chip D-ILA® (0.8-inch diagonal)
Projection Lens	Zoom lens (1:8 ~ 2.3:1, manual zoom/manual focus, 50% offset)
Brightness	600 ANSI lumens at D65
Resolution	1920 x 1080 pixels
Aspect Ratio	16:9
Contrast	2000:1
Lamp	250W, UHP
Color Temperature	D65/user selectable 1/user selectable2

### GENERAL

Dimensions (W x H x D)	298 x 134 x 360mm (without protrusions)
Weight	13.2 lbs (6kg)
Power Requirement	100 – 240V AC, 50/60Hz
Power Consumption	350W

### CONTROL TERMINALS

Remote	1 source
Serial Output	1 source (RS-232C)

### DIGITAL VIDEO PROCESSOR

Horizontal Sync Frequency	31.5kHz – 63kHz
Vertical Sync	60Hz/50Hz

### INPUT TERMINALS

RGB (BNC)	x1
Analog RGB (D-Sub 15-Pin)	x1
Digital RGB (HDCP compatible DVI-D)	x1
Composite (BNC)	x1
S-video (Y/C)	x1
YPbPr (BNC)	x1 (common with RGB)

### OUTPUT TERMINALS

Digital RGB (DVI-D)	x1
RGBHV (D-Sub 15-pin)	x1
RGBHV (BNC)	x1

### CONTROL TERMINALS

Remote	1 source
Trigger	1 source
Serial Output	1 source (RS-232C)

### GENERAL

Dimensions (W x H x D)	438 x 45 x 303mm
Weight	14 lbs (6.3kg)
Power Requirement	100 – 240V AC, 50/60Hz
Power Consumption	115W

## CONNECTORS



## PROVIDED ACCESSORIES

(unknown)

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## THROW DISTANCE vs. SCREEN WIDTH

Screen Size (width)		Throw Distance (approx.)					
		Wide		Wide			
in.	m	ft.	m	ft.	m		
29.18	0.7412	3.75	(3' 9")	1.143	4.9212	(4' 11-1/16")	1.5
60	1.524	7.8346	(25' 8-29/64")	2.388	10.219	(10' 2-41/64")	3.115
80	2.032	10.475	(10' 5-45/64")	3.193	13.658	(13' 7-57/64")	4.163
100	2.54	13.123	(13' 1-31/64")	4	17.099	(17' 1-13/64")	5.212
130	3.302	17.093	(17' 1-1/8")	5.21	22.257	(22' 3-3/32")	6.784
150	3.81	19.74	(19' 8-57/64")	6.017	25.695	(25' 11/32")	7.832
170	4.318	22.388	(22' 4-21/32")	6.824	29.137	(29' 41/64")	8.881
200	5.08	26.358	(26' 4-19/64")	8.034	34.294	(34' 3-17/32")	10.453
230	5.842	30.328	(30' 3-15/16")	9.244	39.452	(39' 5-27/64")	12.025
250	6.35	32.975	(32' 11-45/64")	10.051	42.893	(42' 10-23/32")	13.074
270	6.858	35.62	(35' 7-7/16")	10.857	46.332	(46' 3-63/64")	14.122
298.33	7.5776	39.37	(39' 4-7/16")	12	51.204	(51' 2-29/64")	15.607

## DIMENSIONS

(Unit: inches/mm)

