JVC®

The Perfect Experience

DLA-HD2K

D-ILA® HD Projection System

(3-Chip D-ILA® Projector + Digital Video Processor)

JVC's 3-Chip Native High Definition Projection System

Bring the true movie experience home.

Finally, a home cinema projector with such stunning resolution, it will “wow” even the toughest critics.

1920 x 1080p Native High Definition Resolution

D-ILA. The Most Advanced LCOS Technology On The Market Today

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** is achieved from an economical ultra high-pressure mercury NSH lamp that uses illumination optics to optimize the f-number for each primary color. This exclusive JVC process ensures optimum contrast of individual colors and a D65 color temperature that provides vivid, natural-looking color reproduction.

- **Newly Developed Projection Lens** employs a 10-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.

3 Native 1920 x 1080p D-ILA Chips

Thanks to the newly developed HD D-ILA devices, the native resolution of the DLA-HD2K is 1920 x 1080p, the extreme HD 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 postproduction screening rooms.

Cost-effective NSH Lamp

To ensure lower running costs, the DLA-HD2K uses a 250W ultra high-pressure mercury NSH lamp, which should be replaced after approximately 2,000 hours of operation. And in most applications, the homeowner can easily change the lamp without removing the projector from its mounts.

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

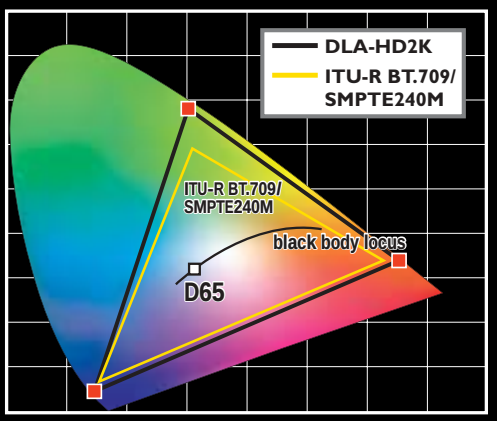
- **Three D-ILA chips:** JVC's exclusive 3-chip D-ILA technology produces rich, natural colors without the annoying flicker or "rainbow effect" that plagues single-panel projectors. Images are as smooth as film, boasting incredible detail and vibrant, breathtakingly natural colors.
- **Cinema-quality 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. By setting the color temperature at the D65 standard, source media can be faithfully reproduced with the same gradations as the original picture. D65 color temperature is the home theater standard. This makes all color gradations natural and consistent, including absolute black and absolute white. Furthermore, JVC's exclusive AG* technology produces highly accurate gradations with low noise, particularly in darker areas of less than 20% brightness.
  **Analog gradation*
- **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.

■ Comparison of gradation characteristics

D-ILA: Accurate colors with absolute white and black

Conventional projector (bluish white and reddish black)

■ DLA-HD2K Color Coordinates



To download HD2K Gamma Customization Software from our Web site, access the following URL:
http://www.jvc.com/pro

Exclusive Digital Video Processor

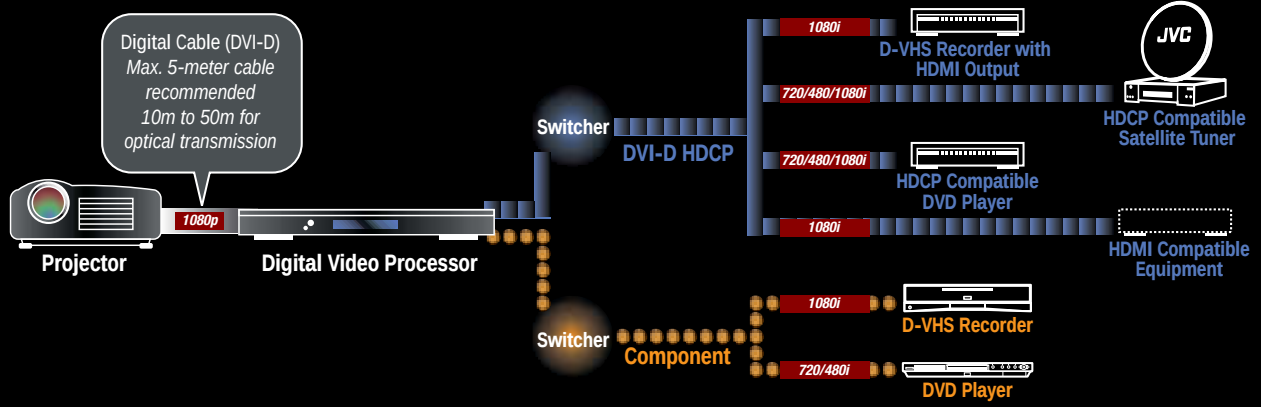
The DLA-HD2K is equipped with a digital video processor co-developed with Faroudja®, a company renowned worldwide for creating powerful processing technologies. This exclusive JVC digital video processor can be connected to various sources including 480i, 480p and 576i SD signals, as well as 720p and 1080i HD signals. Faroudja's color matrixing provides accurate color profiles for NTSC and HDTV, allowing the processor 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 and is fully HDCP compliant. This processor 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.

Infrared Remote Controls

Remote controls employ discrete IR commands for common features and have discrete buttons for easy capture of IR data to third-party control systems.

Convenient, Space-Saving 2-Piece Design

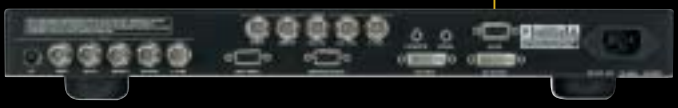
Unlike bulky one-piece units, the projector head of the DLA-HD2K is only 11.75" W x 5.25" H x 14.1875" D and weighs a mere 13 lbs. This smaller size allows for less conspicuous and more flexible installation as well as easier ceiling mounting. The projector head is connected to a standard rack-mountable 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.



CONNECTORS

Projector

Digital Video Processor



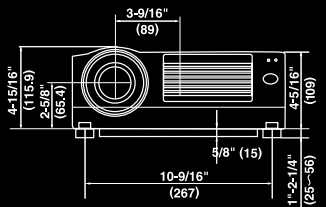
ACCESSORIES

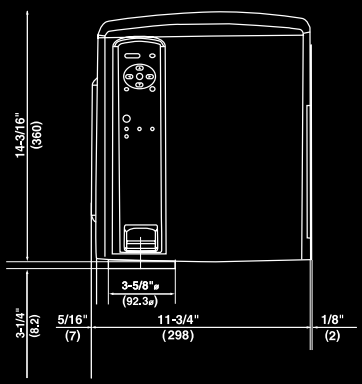
OPTIONAL	LY-Z0021	Wide Conversion Lens
PROVIDED	Projector:	Instructions, Warranty Card, Power Cord, DVI-D Cable (5m), Remote Control (RM-MH2K), Two AAA Batteries
	Processor:	Instructions, Power Cord, Remote Control, Two AA Batteries, Warranty Card

DIMENSIONS

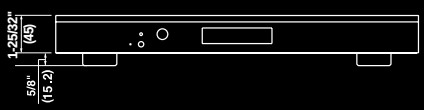
(Unit: inches/mm)

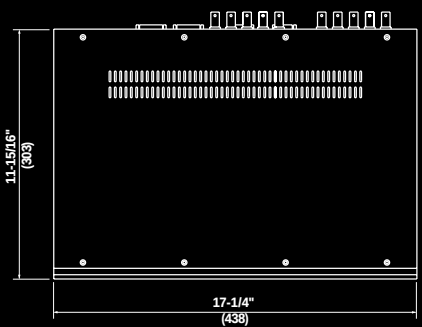
Projector





Digital Video Processor





You simply won't believe your eyes.

Imagine colors so vivid they literally take your breath away. And picture quality that's so lifelike, you'll swear you've been transported right inside the screen. These are just two of the reasons JVC's new DLA-HD2K Projection System is redefining the entire category of home cinema. There are many more.

The HD2K Projection System features a combination of three patented D-ILA chips and LCOS technology that delivers 1920 x 1080p Native High Definition Resolution. The system also offers a high contrast ratio of 2000:1 plus breathtaking color reproduction. It all adds up to bringing the true movie experience home like never before.

And if one-of-a-kind performance isn't enough, JVC offers the two-piece system with one of the smallest projector footprints available and a separate processing unit featuring Faroudja® technology, allowing for the most flexible installation options.

JVC's new DLA-HD2K Projection System.
Get ready for rave reviews.

SPECIFICATIONS

PROJECTOR

Image Device	3-chip D-ILA® (0.82-inch diagonal)
Aspect Ratio	16:9
Screen size/Throw Distance	40" to 200" (16:9)/1.6m to 10.5m (16:9)
Resolution	1920 x 1080 pixels (16:9) x 3 chips; Total resolution: 6,220,800 pixels
Projection Lens	1.3X zoom lens (1:8 ~ 2.35:1, manual zoom/ manual focus, 50% offset)
Lamp	250W NSH (Model No. BHL5006-S)
Contrast Ratio	2000:1
Color Temperature	D65/user selectable 1/user selectable 2
Gamma Control	Normal, A, B, and CUSTOM

TERMINALS

Input	Digital x1 (HDCP compatible DVI-D)
Serial Control	RS-232C x1

GENERAL

Power Requirement	100V-240V AC, 50/60Hz
Power Consumption	350W (5W at standby)
Calorific Power	1260kJ/h (1194 Btu)
Dimensions (W x H x D)	11-3/4" x 5-1/4" 14-3/16" (298 x 134 x 360mm) without protrusions
Weight	13.66 lbs (6.2kg)

CONTROL TERMINALS

Serial Control	1 source (RS-232C)

DIGITAL VIDEO PROCESSOR

Input Signals	480i (H: 15.7kHz, V: 29.97Hz), 480p (H: 31.5kHz, V: 59.97Hz) 576i (H: 15.6kHz, V: 25.00Hz), 576p (H: 31.3kHz, V: 50.00Hz) 720p (H: 37.5kHz, V: 50.00Hz), 720p (H: 45.0kHz, V: 59.97Hz) 1080i (H: 28.1kHz, V: 25.00Hz), 1080i (H: 33.7kHz, V: 29.97Hz)

INPUT TERMINALS

RGBCs (BNC)	x1 *Shared with YPbPr bnc input
DVI (HDCP compatible DVI-D)*	x1 *HDMI compliant with optional adaptor cable
Video (BNC)	x1
Y/C (Mini DIN)	x1
YPbPr (BNC)	x1
Serial Control	1 source (RS-232C)

OUTPUT TERMINAL

DVI-D (HDCP compatible DVI-D)*	x1

*Terminals other than DVI are not used for DLA-HD2K Projection System

CONTROL TERMINALS

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

GENERAL

Power Requirement	100V-240V AC, 50/60Hz
Power Consumption	35W
Calorific Power	126kJ/h (119 Btu)
Dimensions (W x H x D)	17-1/4" x 1-3/4" x 11-15/16" (438 x 45 x 303mm) without protrusions
Weight	14 lbs (6.3kg)

THROW DISTANCE vs. SCREEN WIDTH

Screen Size			Throw Distance			
Diagonal	Width		Wide		Tele	
in.	mm	ft.	m	ft.	m	ft.
40.5	897	2.94	1.600	5.24	2.093	6.86
82	1815	5.96	3.274	10.74	4.268	14.00
92	2037	6.68	3.677	12.06	4.792	15.72
100	2214	7.26	4.000	13.12	5.212	17.09
110	2435	7.99	4.403	14.44	5.736	18.81
123	2723	8.93	4.928	16.16	6.417	21.05
135	2989	9.81	5.412	17.75	7.046	23.11
150	3321	10.89	6.017	19.74	7.832	25.69
160	3542	11.62	6.420	21.06	8.357	27.41
165	3653	11.98	6.622	21.72	8.619	28.27
180	3985	13.07	7.227	23.71	9.405	30.85
192	4250	13.95	7.711	25.29	10.034	32.91
200	4428	14.53	8.034	26.35	10.453	34.29

Recommended distance is between 6.6ft to 26.2ft (2m to 8m)

Simulated screen shot from Francis Ford Coppola's restored masterpiece, "Apocalypse Now Redux."

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

JVC®

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