JVC

DLA-RS55

3D Enabled D-ILA Media Room Projector

ReferenceSeries

4K Precision and **80,000:1** Native Contrast Ratio Ensure Natural and Realistic Images



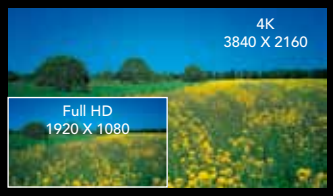
- **4K e-Shift** (3,840 x 2,160 Precision) Three Chip 3D enabled D-ILA projector
- High native contrast ratio **80,000:1**
- THX and ISF Certified
- Minimized crosstalk for brighter, more realistic 3D picture
- Built in 2D to 3D converter creates dynamic 3D images from 2D video content
- 101 Screen Adjustment Modes for color optimization on various screen types*
- Control: LAN / RS-232c / IR / 12 V Screen Trigger Output
- Three Lens Memories to enable constant height installations without an external lens
- Zone Pixel Adjust corrects convergence in 1/16-pixel increments over 121 zones
- Motorized lens cover protects lens when projector is not in use

**Capable of increasing up to 255 modes with firmware upgrade*

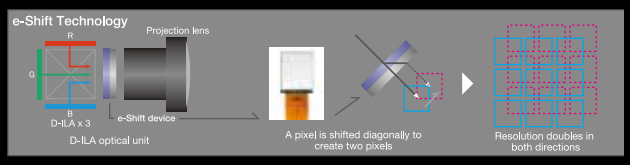
Note: Optional 3D Glasses (PK-AG2 or PK-AG1) and 3D Synchro Emitter (PK-EM1) are required for viewing images in 3D.

4K e-Shift D-ILA 3D isf ccc THX 3D DISPLAY

4K Precision JVC e-Shift Projection



A newly developed optical engine incorporating three JVC D-ILA imaging devices and new e-Shift technology, which shifts each pixel by 0.5 pixels diagonally at a rate of 120Hz is combined with advanced JVC processing to enable 3840 X 2160 precision images to be projected from all compatible 2D source material. JVC e-Shift technology upscales content to a 3840 X 2160 frame where precise edge enhancement and contrast improvement processing is performed. Two time-aligned 1920 X 1080 sub-frames are created and projected through the e-Shift optical device to create a total of 3840 X 2160 pixels on the screen. Diagonal lines, curves and other irregular shapes are smoothed to produce a natural and realistic image and pixels become nearly invisible.



Native Contrast Ratio of 80.000:1

High native contrast is achieved on the DLA-RS55 by utilizing an improved optical engine employing advanced D-ILA imaging devices and a wire grid polarizer. There is no dynamic iris or active circuitry to artificially enhance the contrast ratio. Every frame of content projected has wide dynamic range from peak whites to deep blacks to ensure superb picture quality with a heightened sense of immersion and depth.



Conventional projector DLA-RS55

Accurate Color and Gray Scale Tracking

The DLA-RS55 is both THX and ISF certified. Achieving the THX 3D Display certification requires the projector to pass over 400 color, gray scale and signal processing tests, including an additional level of tests for 3D certification creating and incredible out of the box experience.

This projector is designed to be professional calibrator friendly incorporating select ISF calibration modes via a special software interface available to ISF certified calibrators. Images can be optimized for specific ambient light conditions and stored for recall at the appropriate viewing time.

D-ILA 3D Projection*

JVC's most recent D-ILA driving method reproduces superlative 3D images with vivid colors and reduced L/R crosstalk. But best of all, DLA-RS55 is also equipped with other innovative 3D functions.

• **Crosstalk Cancelling:** The innovative Crosstalk Cancelling function significantly reduces crosstalk from critical intensity levels that are likely to cause this phenomenon. The video signal is analyzed for the left and right eyes and then a correction is applied which levels via JVC advanced proprietary algorithms. This ensures a better 3D experience.

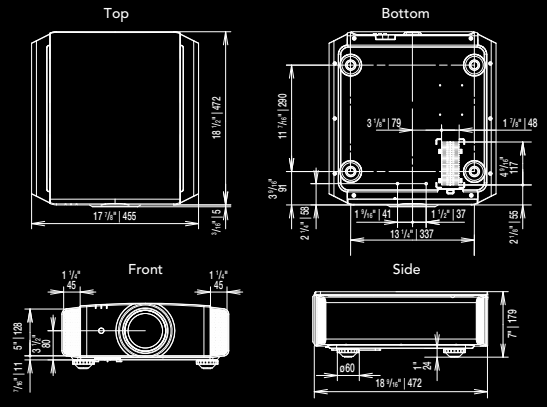


Crosstalk Cancelling OFF Crosstalk Cancelling ON

• **2D-3D Conversion:** The real-time 2D-3D converter featured on JVC's Broadcast Quality IF-2D3D1 Professional 3D Image Processor has been ported over for home projector use and is now featured on the DLA-RS55. This means that 2D video recorded on camcorders and TV broadcasts can be converted into 3D video instantaneously for home stereoscopic viewing enjoyment. Other adjustment functions are available such as Depth Adjustment for matching 3D effects to the original source or viewer preferences, and the adjustment of subtitle distortion can be chosen during 2D-3D conversion.

*The optional 3D Synchro Emitter and 3D glasses are required to view 3D images.

External Dimensions (unit: Inches | mm)



Projection Distance Chart

Display size (16:9)					Projection distance			
Screen diagonal (In.)	Width (mm)	Width (In.)	Height (mm)	Height (In.)	Wide (m)	Wide (Feet)	Tele (m)	Tele (Feet)
60	1,328	52.28	747	29.41	1.78	5.84	3.66	12.01
70	1,549	60.98	872	34.33	2.09	6.86	4.28	14.04
80	1,771	69.72	996	39.21	2.40	7.87	4.89	16.04
90	1,992	78.43	1,121	44.13	2.70	8.86	5.51	18.08
100	2,214	87.17	1,245	49.02	3.01	9.88	6.13	20.11
110	2,435	95.87	1,370	53.94	3.31	10.86	6.75	22.15
120	2,656	104.57	1,494	58.82	3.62	11.88	7.36	24.15
130	2,878	113.31	1,619	63.74	3.92	12.86	7.98	26.18
140	3,099	122.01	1,743	68.62	4.23	13.88	8.60	28.22
150	3,320	130.71	1,868	73.54	4.53	14.86	9.22	30.25
160	3,542	139.45	1,992	78.43	4.84	15.88	9.84	32.28
170	3,763	148.15	2,117	83.35	5.14	16.86	10.45	34.28
180	3,984	156.85	2,241	88.23	5.45	17.88	11.07	36.32
190	4,206	165.59	2,366	93.15	5.75	18.86	11.68	38.32
200	4,427	174.29	2,490	98.03	6.06	19.88	12.30	40.35

Lens Zoom Range: 1.4 - 2.8:1 ± 5% Design Tolerance
Projector Throw Distance = Screen Width x Zoom Lens Setting

Notes about viewing 3D video content
• The optional 3D Synchro Emitter and 3D glasses are required to view 3D images. 3D video software (3D media or output of 3D broadcasts) and a 3D-compatible video player are also required. • Perception of 3D images will vary with individual viewers. • Stop viewing 3D images immediately if any discomfort such headaches, dizziness, eye fatigue, etc. occur. • Viewing of 3D images by children under the age of five is not recommended. • Read the Safety Precautions in the User Manual carefully before viewing any 3D source.

Optional Equipment



User-replaceable Lamp
PK-L2210U



3D Synchro Emitter
PK-EM1



3D Glasses
PK-AG1
Battery-operated Type



3D Glasses
PK-AG2
Rechargeable Type

Connectors



Specifications

		DLA-RS55
Device		0.7 inch Full HD D-ILA (1920 x 1080) x3
e-Shift Technology		Yes
Resolution		3840 x 2160*1 (e-Shift Precision)
Lens		2X Zoom & Focus: Motorized f=21.4-42.8mm / F=3.2-4
Lens Shift		±80% Vertical and ±34% Horizontal (motorized)
Light Source Lamp		220W Ultra-High Pressure Mercury Lamp (lamp life: approx. 3000 hours when the lamp is in Normal mode)
Contrast Ratio		Native: 80,000:1
Connectors	Component	1 (RCA; Y, PB/CB, PR/CR)
	HDMI	2 (3D/Deep Color/CEC compatible)
	Analog RGB (PC)	1 (D-sub15pin)
	RS-232C	1 (D-sub 9pin)
	Control and Firmware Upgrade	1
	Trigger	1 (Mini jack , DC12V/100mA)
	Remote	1 (Stereo Mini Jack)
	3D Sync	1 (Mini Din 3pin)
Video Input Signal Format	Digital	480i/p, 576i/p, 720p 60/50, 1080i 60/50,1080p 60/50/24
	Analog	480i/p, 576i/p, 720p 60/50, 1080i 60/50
PC Input Signal Format	HDMI	VGA/SVGA/XGA/WXGA/WXGA+/SXGA/WSXGA+/WUXGA
	Analog RGB (D-sub 15 pin)	VGA/SVGA/XGA/WXGA/WXGA+/SXGA/SXGA+ /WSXGA+/1920x1080/Mac 13",16"19"
3D Format	Frame Packing	720p 60/50,1080p 24,1080i 60/50
	Side-by-Side (half)	720p 60/50, 1080p 60/50, 1080i 60/50
	Top & Bottom	720p 60/50, 1080p/24
Noise		20dB (Lamp normal mode)
Power Requirement		AC 110-240V,50/60Hz
Power Consumption		360W (Stand-by: 0.8W)
Dimensions (in. | mm)		17.91" x 7.05" x 18.59" | 455x179x472 mm
Weight (lbs. | kg)		33.95 lbs. | 15.4 kg

*1 Resolution is 1920x1080 at 3D mode. *2 Measurement, measuring conditions, and method of notation all comply with ISO 21118.

• The projector is equipped with an ultra-high pressure mercury lamp, which may break, emitting a loud noise, when it is subjected to shock or after it has been used for some length of time. • Please note that, depending on how the projector is used, there can be considerable difference between individual lamps regarding how many hours they will operate before requiring replacement. • An additional payment is required for installation of a new lamp, if necessary. • The projector lamp requires periodic replacement and is not covered by warranty. • Please be aware that, because the D-ILA device is manufactured using highly advanced technologies, 0.01% or fewer of the pixels may be non-performing (always on or off).

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