JVC

Note: As stated in this brochure, the DLA-RS4100, DLA-RS3100, and DLA-RS2100 models are the world's first home theatre projectors (as of September 2021) to support 8K60p/4K120p input; according to a research conducted by JVCKENWOOD.
• D-ILA is a registered trademark of JVCKENWOOD Corporation. • BLU-Escent is a registered trademark of JVCKENWOOD Corporation. • HDR10+™ logo is a trademark of HDR10+ Technologies, LLC. • ISF is a registered trademark of Imaging Science Foundation, Inc. • HDMI, the HDMI logo and High-Definition Multimedia Interface are registered trademarks of HDMI Licensing LLC. • All other brand or product names may be trademarks and/or registered trademarks of their respective owners. • 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). • The DLA-RS1100 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 regarding how many hours the light source will operate before requiring replacement. • An additional payment is required for installation of the projector or a new light source, if necessary. • All pictures on this brochure are simulated. • Design and specifications are subject to change without notice. • Any rights not expressly granted herein are reserved.

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PJC-21020EG

JVC

DLA-RS4100/DLA-RS3100/DLA-RS2100/DLA-RS1100

D-ILA Projectors

8K e-shift X

BLU-Escent

D-ILA

HDR

HDR10+

8K. LASER. HDR. The NEW ULTIMATE

World First 8K Input Home Theater Projector

8K e-shiftX

World's first 8K60p/ 4K120p input home theater projector

D-ILA

Developed the first D-ILA device

1997

0.8" Full HD D-ILA device

2004

0.7" Full HD D-ILA device

2007

4K e-shift

The First 4K/e-shift model

2011

4K

Native 4K D-ILA Device

2016

8K e-shift

The First 8K/e-shift model

2018

2021

2000 2005 2010 2015 2020

8K. LASER. HDR. The NEW ULTIMATE

The rise of new devices has always been driven by innovation. In 2021, JVC proudly introduces a line-up of new projectors featuring the world's first 8K60p/4K120p signal input*1 and 8K/e-shiftX technology, a proprietary BLU-Escent laser diode light source to project the high-resolution 8K image with full depth and dimensionality, and the latest HDR10+ format compatibility. 8K, Laser, HDR are the keywords that describe where we stand today, and they feature prominently in JVC's latest line-up. Welcome to the dawn of the New Ultimate.

*1: As a home theatre projector, as of September 2021; according to a research by JVCKENWOOD.

BLU-Escent

BLU-Escent laser with Ultra-High Contrast Optics including all-glass lens

HDR10+ HDR High Dynamic Range

HDR10+ and HDR10 projection with Frame Adapt HDR and Theater Optimizer

isf ccc

ISF C3 (certified calibration controls) license

8K. LASER. HDR

8K Resolution with 8K60p/4K120p Input and JVC Original 8K/e-shiftX Technology

4K120p input ideal for Low Latency mode

Because these projectors are equipped with 4K120p input, signal latency is infinitesimal, making it effective when displaying high frame-rate gaming content on large screens. What's more, Low Latency Mode reduces delay in displaying PC signals and games, and improves response to the users' rapid operations.

4K Input RS1100

From Blu-ray and gaming consoles to 4K streaming services, native 4K content can be enjoyed to its fullest on JVC D-ILA projectors without conducting any upscaling process.

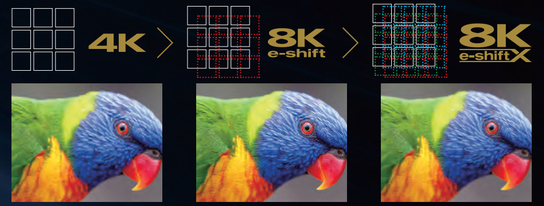
Equipped with newly developed 8K/e-shiftX technology to achieve 8K resolution

RS4100 RS3100

8K Input RS4100 RS3100 RS2100

The key to the excellence in JVC D-ILA projectors lies in its ability to support the future in video, such as the raw 8K input terminal, and provide a long-term home theatre experience with confidence.

Significant progress has been made to our proprietary 8K/e-shift technology – which combines "e-shift" high-resolution display technology that doubles the resolution by shifting a pixel by 0.5 pixels, and 0.69-inch native 4K D-ILA device. Shift direction has increased from the conventional two diagonal directions to four directions of up, down, left, and right, to enable display of 8K signal information in its entirety. The result is an 8K resolution, enhancing the sense of three-dimensionality and immersion.



See how the native 4K image becomes sharper with 8K/e-shift processing, and as if it is alive with 8K/e-shiftX processing.

World's first home projector capable of inputting 8K60p/4K120p signals

These projectors adopt LSIs*2 developed with the latest technology to process the vast amount of 8K input data, and an up converter to bring any source up to high definition 8K resolution. As a result, more beautiful and realistic video images full of contrast and reality can be enjoyed regardless of the source, from video streaming to 4K UHD-BD videos.

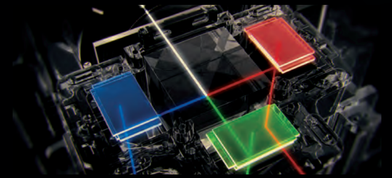
*2: Except for the DLA-RS1100

Ultra-High Contrast Optics with 4K D-ILA device

RS4100 RS3100

High-resolution image projection is reliant on the device and the optical system. The refined 0.69-inch 4K D-ILA device has doubled the speed required to display images from 120 Hz to 240 Hz-equivalent. The new Ultra-High Contrast Optics featured on the DLA-RS4100 and RS3100 contribute to achieve optical brightness as high as 3,000 lumens*5, and the new optics has dramatically improved the image quality by thoroughly suppressing the return of unnecessary light to the projection screen.

*5: Brightness of 3,000 lumens for the DLA-RS4100 and 2,500 lumens for the RS3100. Refer to page 10 for the brightness of other models.



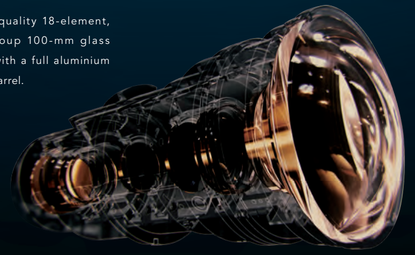
4K D-ILA®

Essential all-glass lens to depict all the data in the 8K image

The high-end DLA-RS4100 is equipped with an 18-element, 16-group all-glass lens featuring a full aluminium lens barrel*3. To project high-resolution 8K images to every corner of the screen, the projector incorporates five ED lenses calibrated for differences in the R/G/B refractive index to reduce chromatic aberration and colour fringing when lens shift kicks in to deliver precise reproduction of 4K- or 8K-resolution*4 projection.

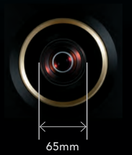
*3: 65 mm diameter, 17-element, 15-group all glass lens is featured on the DLA-RS3100, RS2100 and RS1100 models.
*4: Resolution varies depending on the model.

High-quality 18-element, 16-group 100-mm glass lens with a full aluminium lens barrel.



RS4100

RS3100
RS2100
RS1100



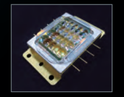
BLU-Escent JVC's Original Laser Diode Light Source, Offers Depth and Dimensionality to 8K Imagery

Reliability-proved BLU-Escent Laser Diode for exceptional brightness and longevity

RS4100 RS3100 RS2100

The light source for these projectors (except for the DLA-RS1100) is the latest blue laser diode BLU-Escent, which is featured in JVC professional projectors. BLU-Escent technology has been adopted for home theatre projectors to achieve exceptional brightness and longevity of 20,000 hours*6. Laser diode allows dynamic control of brightness to reproduce images that are closer to human perception. Combining the latest BLU-Escent package with the D-ILA device achieves detailed, smooth, powerful video expression.

*6: In theory, this amounts to 20 years or more while watching a 2.5-hour movie every day.



The advantage of laser diode over lamp is because multiple laser chips make it possible to compensate for the loss of one chip using other chips.

Unparalleled black level and high luminance deliver images brimming with reality

RS4100 RS3100 RS2100

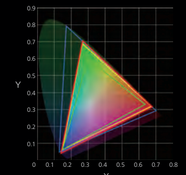
Native contrast as high as 100,000:1 is delivered by these projectors'*7 optical engine alone. But on top of that, in combination with the dynamic light source control, an astonishing dynamic contrast of ∞ (infinity) :1 can be achieved for models equipped with the BLU-Escent light source.

*7: Native contrast ratio of 100,000:1 for the DLA-RS4100, 80,000:1 for the RS3100, and 40,000:1 for the RS2100, all with ∞:1 dynamic contrast ratio. The RS1100 delivers 40,000:1 native contrast ratio with 400,000:1 dynamic contrast ratio.

Vivid colour images achieved with DCI-P3-equivalent wide colour gamut

RS4100 RS3100

The use of a laser light source and cinema filters enables a wide colour gamut equivalent to DCI-P3, not to mention BT.709. When HDR content is projected on the DLA-RS4100 or the RS3100, it's possible to richly reproduce colours such as the gradations of the sky and ocean, the contrast of red roses, or a row of fresh green trees.



Enhanced Industry-leading HDR Performance with the Latest Signal Formats including HDR10 Plus

HDR (High Dynamic Range) drastically improves expressive power of images

When it comes to reproducing the rich video information of HDR content, including the extended brightness range, BT.2020 wide colour gamut and 10-bit gradation, rely on one of the new D-ILA projectors. New models support all HDR formats including HDR10 for Blu-ray and streaming, HLG for broadcasting, and the latest HDR10+ signal format with dynamic metadata compatibility.

Support for two dynamic tone mappings

JVC projectors are compatible with the two dynamic tone mappings of HDR10+ and Frame Adapt HDR with Theater Optimizer. HDR10+ contains the metadata of the producer's intentions for each scene. With such data, the projector can automatically reproduce images according to how the creator had planned. The Frame Adapt HDR with Theatre Optimizer performs tone mapping according to the input signal of the content, as well as the installation environment and/or usage conditions of the projector. This mapping is made possible with the best image processing technology that JVC currently has.

With conventional projectors, a scene mixed with bright and dark settings tends to become too bright or too dark.

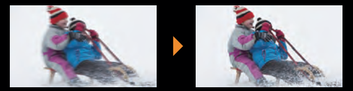
JVC's original Frame Adapt HDR with Theater Optimizer – Optimal Reproduction of Individual HDR Content that Matches the Environment

JVC projectors enhance the reproduction of HDR images in home theatres by combining the proprietary technologies of Frame Adapt HDR with Theatre Optimizer. Frame Adapt HDR performs optimal tone mapping based on the analysis of HDR10 content, while the Theater Optimizer automatically adjusts the projector settings according to the operating environment.

JVC projectors featuring Frame Adapt HDR and Theater Optimizer can express HDR/HDR10+ content at optimum brightness and darkness in each scene as the creator intended.

ADJUSTMENTS AND INSTALLATION

■ **Clear Motion Drive's** compensation accuracy has been improved in the periphery of intersecting objects. Added with Motion Enhance technology, the projector can reproduce much smoother moving 4K images*8.



Clear Motion Drive: Off　　Clear Motion Drive: On

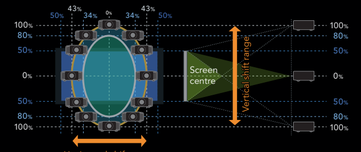
*8: The function is disabled when inputting 4K120p signals.

■ **Auto Calibration function** optimizes all essential elements found in the image, including colour balance, gamma characteristics, colour space, and colour tracking, using an optical sensor and proprietary software*9.

Immediately after use　　1,000 hrs after use　　After Auto-Calibration

*9: An optical sensor and proprietary software, which is downloadable from JVC website, are required to perform auto calibration function. Refer to the JVC website for details.

■ **Lens Shift function** is used to install the projector with flexibility. Vertical/horizontal wide shift ranges help project images without distortion.



Range capable for the DLA-RS4100

Range capable for the DLA-RS3100/RS2100/RS1100

Above diagram shows shift range for the 16:9 aspect ratio projection.

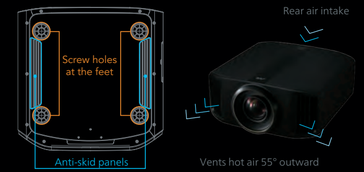
■ **6-axis Colour Management System** with red, green, blue, cyan, magenta, and yellow axes enables the precise adjustment of hue, saturation, and intensity.

■ **Installation Mode** allows users to centrally manage eight settings (Lens Control, Pixel Adjustment, Mask, Anamorphic on or off, Screen Setting, Installation Style, Keystone, and Aspect) to enjoy projected video optimized for each environment. Ten different mode settings can be named and stored in memory.

Installation Mode and Memory graphical interfaces

Scan or click on the QR code to access the Screen Adjustment Mode Table

■ **Intake/exhaust layout and Footprint designed for ease of installation.** Rear air intake and front exhaust layout provide flexibility for a variety of installations. Screw holes at the feet are compatible with a conventional ceiling-mount bracket, while two anti-skid panels prevent the projector from slipping when installed.



DLA-RS4100 D-ILA Projector

8K e-shift X | BLU-Escent | HDR | HDR10+ | isf

100mm HQ Lens

DLA-RS3100 D-ILA Projector

8K e-shift X | BLU-Escent | HDR | HDR10+ | isf

DLA-RS2100 D-ILA Projector

8K e-shift | BLU-Escent | HDR | HDR10+ | isf

DLA-RS1100 D-ILA Projector

4K | HDR | HDR10+ | isf

For more information on the 2021 D-ILA projectors, scan or click on the QR code to access the Official Website

Specifications

GENERAL		DLA-RS4100	DLA-RS3100	DLA-RS2100	DLA-RS1100
Device		0.69-inch Native 4K D-ILA Device (4096 x 2160) x3			
e-shift		8K/e-shiftX (4-direction shift)		8K/e-shift (2-direction shift)	–
Display Resolution		8192 x 4320			4096 x 2160
Lens	Type	x2 Motorised Zoom & Focus, All-glass Lens			
	Diameter	100 mm	65 mm		
Lens Shift	Vertical/Horizontal (motorised, in 16:9 aspect ratio)	±100% / ±43%	±80% / ±34%		
Projection Display Size (diagonal)		60 inch - 300 inch	60 inch - 200 inch		
Light Source		BLU-Escent Laser Diode			NSH 265 W
Brightness		3,000 lm	2,500 lm	2,200 lm	1,900 lm
Contrast Ratio	Dynamic	∞:1			400,000:1
	Native	100,000:1	80,000:1	40,000:1	40,000:1
DCI-P3 Colour Gamut		•			–
Input Terminal	HDMI	2 (48Gbps, HDCP2.3, no support for CEC)			
	TRIGGER	1 (Mini Jack, DC12V/100mA)			
Output Terminals	3D SYNCHRO	1 (Mini-Din 3pin)			
	RS-232C	1 (Dsub 9pin)			
Control Terminals	LAN	1 (RJ-45)			
Service Terminal	SERVICE	1 (USB Type A, for firmware update)			
Power Consumption	Projector in use	440 W		420 W	
	Standby	Eco-mode: 0.3 W			
	Networked standby	1.5 W (LAN)			
Fan Noise		24 dB (In Low Mode)			
Power Requirement		AC100-240 V, 50/60 Hz			
Dimension (W x H x D, including feet)		500 x 234 x 528 mm	500 x 234 x 505 mm		500 x 234 x 495 mm
Weight (net)		25.3 kg	23.1 kg	22.5 kg	19.2 kg

FEATURES		DLA-RS4100	DLA-RS3100	DLA-RS2100	DLA-RS1100
8K60p Input		•	•	•	–
4K120p input		•	•	•	•
Ultra-High Contrast Optics		•	•	–	–
HDR	HDR10+	•	•	•	•
	HLG	•	•	•	•
	Mastering Info Display	• (Max CLL/Max FALL)			
	Frame Adapt HDR	•	•	•	•
	Theater Optimizer*10	•	•	•	•
	Auto Tone Mapping	•	•	•	•
3D Support		•	•	•	•
Clear Motion Drive		•	•	•	•
Motion Enhance		•	•	•	•
Low Latency Mode		•	•	•	•
Auto Calibration		•	•	•	•
Installation Mode		• (10 memories)			
isfccc Certification		•	•	•	•
Screen Adjustment Mode		• (180 modes)			

*10: Theater Optimizer can be activated only when the projector's picture mode is set to Frame Adapt HDR.

Optional Accessories

PK-AG3 RF 3D Glasses

Full recharge takes 2.5 hours and works for 100 hours. Includes USB-Mini USB cable.

PK-EM2 RF 3D Emitter

Signal reaches to 10 meters. No IR signal interruption with other equipment. No limitation to the number of the glasses.

PK-L2618U Replacement Lamp RS1100

Lamp time of 4,500 hours at Low Lamp power setting, 3,500 hours at High Lamp power setting.

Projection Distance Chart

DLA-RS4100

	Display size 3840 × 2160 (16:9)				Display size Cinematic (2.35:1)			
	Screen size		Projection distance		Screen size		Projection distance	
Screen diagonal (inch)	Width (mm)	Height (mm)	Wide (m)	Tele (m)	Width (mm)	Height (mm)	Wide (m)	Tele (m)
60	1,328	747	1.75	3.61	1,402	597	1.86	3.82
90	1,992	1,121	2.67	5.46	2,103	895	2.83	5.77
100	2,214	1,245	2.98	6.07	2,337	995	3.15	6.41
110	2,435	1,370	3.28	6.69	2,571	1,094	3.47	7.06
120	2,657	1,494	3.59	7.30	2,805	1,193	3.79	7.71
150	3,321	1,868	4.51	9.15	3,506	1,492	4.76	9.66
200	4,428	2,491	6.04	12.22	4,674	1,989	6.38	12.91
250	5,535	3,113	7.57	15.30	5,843	2,486	7.99	16.15
280	6,199	3,487	8.48	17.14	–	–	–	–
300	–	–	–	–	–	–	–	–

*Projection distances are design specifications, so there is ±5% variation.

DLA-RS3100/DLA-RS2100/DLA-RS1100

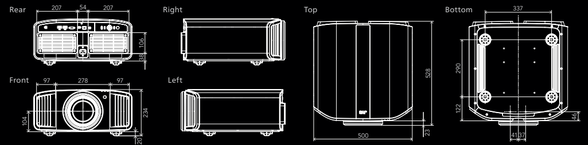
	Display size 3840 × 2160 (16:9)				Display size Cinematic (2.35:1)			
	Screen size		Projection distance		Screen size		Projection distance	
Screen diagonal (inch)	Width (mm)	Height (mm)	Wide (m)	Tele (m)	Width (mm)	Height (mm)	Wide (m)	Tele (m)
60	1,328	747	1.88	3.85	1,402	597	1.99	4.07
90	1,992	1,121	2.84	5.80	2,103	895	3.00	6.13
100	2,214	1,245	3.16	6.45	2,337	995	3.34	6.81
110	2,435	1,370	3.49	7.10	2,571	1,094	3.68	7.50
120	2,657	1,494	3.81	7.75	2,805	1,193	4.02	8.18
150	3,321	1,868	4.77	9.70	3,506	1,492	5.04	10.24
200	4,428	2,491	6.38	12.95	–	–	–	–

*Projection distances are design specifications, so there is ±5% variation.

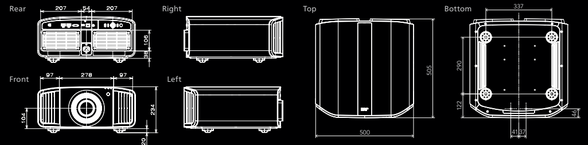
Connectors

External Dimensions

DLA-RS4100



DLA-RS3100/DLA-RS2100



DLA-RS1100