JVC®

The Perfect Experience

DLA-RS20

Full HD D-ILA Front Projector

THX D-ILA® Full HD 1920×1080

REFERENCE SERIES

With the new DLA-RS20, the bigger the screen, the better the picture.
Now every seat in your mini theater is the best in the house!

The new DLA-RS20 brings THX® certified performance to your home theater! From its incredible 50,000:1 native contrast ratio to a new level of color accuracy, brightness and ease of use, this projector is in a class of its own. JVC has refined its Reference Series line of projectors by adding a sophisticated color management system, developing a new high precision 17 element motorized lens with an upgraded optical path, and by incorporating the Silicon Optix's HQV Reon-VX processor. Sporting a stylish yet functional new design and pearl black cabinet, the DLA-RS20 is simply the finest 1080p home theater projector you can buy.

D-ILA®

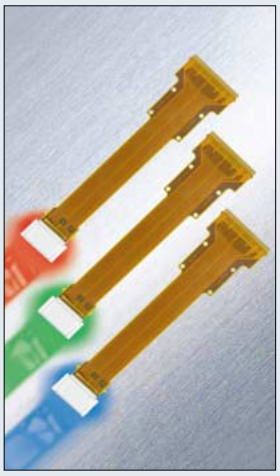
Full HD 1920x1080

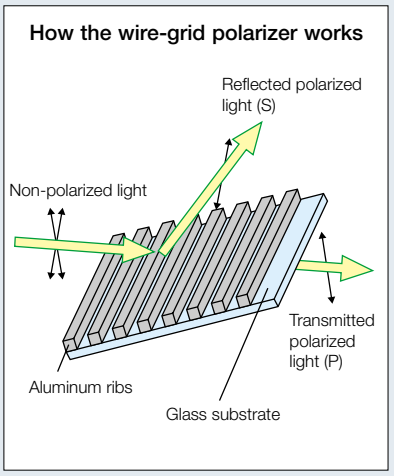
DLA-RS20

Full HD D-ILA Home Theater Front Projector

The industry's highest* native contrast ratio of 50,000:1!

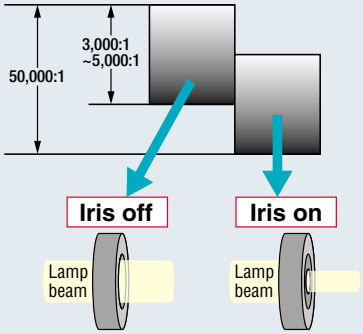
Native Contrast ratio is the intrinsic ability of the projector to show the complete range of image contrast simultaneously. In the DLA-RS20, JVC changed the structural design of the optical section from a conventional L-shape to a straight configuration which helps to reduce light leakage. The enhanced wire grid optical engine dramatically improves the precision of light polarization, helping to prevent light spilling onto the projection lens. Combined with a highly efficient lamp, a brightness of 900 lumens has been achieved. Realizing that increased brightness may not be desired for all viewing environments and screen sizes, JVC has added a 16-step Aperture Brightness Control that allows users to achieve perfect screen brightness and adjust for ambient lighting conditions. The Aperture Brightness Control also serves to further enhance native contrast ratio, up to 50,000:1.





Conventional projector with dynamic iris

50,000:1 contrast ratio

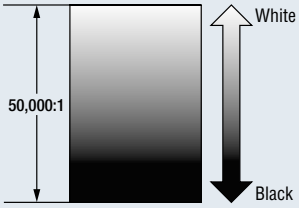


The dynamic iris is opened for bright scenes to make peak values brighter while at the same time, making black level lighter than it should be.

The dynamic iris is closed for dark scenes to make black level appear darker while at the same time, making peak values darker.

DLA-RS20

50,000:1 native contrast ratio



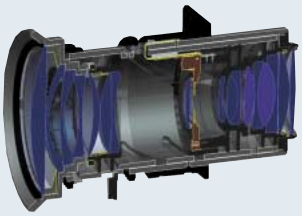
The 0.7-inch full HD D-ILA device can display peak whites and deep blacks on the same field of a picture. This provides extremely sharp contrast for more vivid and natural color reproduction.

Conventional projector

DLA-RS20

High-performance 2x motorized zoom lens

The DLA-RS20 is equipped with a new 17 element lens that uses ED (extra low dispersion) glass, producing very minimal chromatic aberration. The lens has a motorized focus and 2x zoom that can be controlled from the wireless remote. And to display the deepest black possible, this new high-precision lens is also equipped with a 16-step lens aperture that allows adjustment of brightness according to user preferences and usage environment. What's more, the high-precision lens also reduces chromatic aberration and color bleeding significantly.



Excellent color rendition

Color Management interpolates colors individually by R, G, B, C, Y, or M, in three separate axes of color phase, chroma saturation, and brightness. Up to three customized color settings can be stored for future use.

Custom color setup performed via on-screen menu

Before adjustment

After adjustment

Customized gamma control on-screen

Manual adjustment of gamma curve is possible via an on-screen display, allowing the viewer to adjust projector luminance levels by either increasing contrast in scenes that are too dark or dimming washed-out scenes to ensure precise brightness levels suited to individual preferences. Up to three settings can be adjusted and stored for future use.

Custom gamma setup performed via on-screen menu

Advanced video processor

HQV SILICON OPTIX

The projector incorporates the HQV Reon-VX video processor developed by Silicon Optix. To ensure excellent image reproduction, this processor features precision I/P conversion and scaling with full 10-bit 4:4:4 signal processing as well as an HQV noise reduction function to block mosquito noise.

THX Certified Display

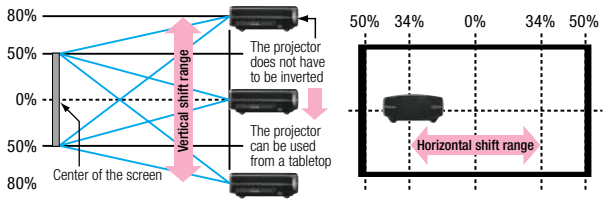
THX

The DLA-RS20 has passed the THX Certified Display program, which is a performance benchmark for high definition (HD) displays that will enable JVC's original D-ILA to deliver the sharpest and most detailed images possible. A number of criteria for home theater display products such as luminance, gamut and colors, grey scale, contrast, etc. have been established by THX Certified Display program, to ensure the exceptional display performance that home theater fans are looking for.

Flexible and easy set-up

New motor driven lens offsets provide a wide range of positioning options. An ±80% vertical offset and ±34% horizontal lens shift combine with the 2x motorized zoom lens to accommodate a wide range of installation irregularities. Alignment to the screen can be easily accomplished using the remote control.

±80% vertical and ±34% horizontal electric lens shift function



The vertical and horizontal lens shift function cannot be set to the maximum values simultaneously.

And when positioning the projector outside of the lens shift coverage area, the Digital Keystone function with ±30° vertical and ±40° horizontal adjustment helps to make distorted images look more natural.

Also featured is a unique automatic lens cover that opens and closes with power on/off to protect against dust, so even if the projector is installed up on the ceiling, you're assured of easy, trouble-free operation via the remote controller.

Lens cover closed

Lens cover open

Self-illuminating remote control

The buttons on the handy self-illuminating remote control light up automatically, making it easy to operate even in a dark room.

Terminal for trigger functions

A dual function trigger terminal can be used to automatically move a projection screen up and down with power to the DLA-RS20 is turned on/off. Additionally, the trigger can be used to control an optional anamorphic lens to stretch the screen to the 2.35:1 aspect ratio with the projector's V-stretch mode activated.

HDMI interface

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Two HDMI interfaces with CEC compatibility are featured.

Quiet operation

Thanks to the enhanced efficiency of the cooling system, fan noise has been reduced to 19dB*, enabling the viewer to better concentrate on what's being shown on the screen even in a very quiet room.

** When lamp mode set to standard mode.*

DLA-RS20

A high-end model achieving the industry's highest* 50,000:1 native contrast ratio for "exceptional true black" reproduction

x**2** (v.1.3)

- Achieves industry's highest 50,000:1 native contrast ratio*
- Achieves a brightness of 900 lumens with a highly efficient lamp
- THX Certified Display model, a certification of excellence
- Color Management function to reproduce the color scheme of choice
- User-customizable gamma control for free control of gradation expression
- High-performance 2x zoom lens with motorized focus featuring a large diameter all-glass lens system with 17 elements in 15 groups including 2 ED lenses
- 16-step lens aperture for brightness adjustment
- Wide electronic lens shift function of ±80% vertical and ±34% horizontal adjustments
- V-stretch mode together with the anamorphic lens allow for the display of images without top and bottom black bars
- Digital Keystone enables easy adjustment of distorted images
- A trigger terminal for activating one of two functions

** As of September 2008; Native contrast ratio of 50,000:1 for home theater projector class (JVC internal survey).*

Projection Distance Chart

Display size (16:9) Inches and (mm)			Throw distance			
Width	Height	Diagonal	Minimum		Maximum	
			Feet-Inch	Meters	Feet-Inch	Meters
52 1/4	29 3/8 (747)	60 (1523)	5-10	1.78	12-0	3.66
60	33 3/4 (857)	68 7/8 (1749)	6-8 1/4	2.05	13-9 1/2	4.20
70	39 3/8 (1000)	80 3/8 (2040)	7-10	2.39	16-1 1/4	4.91
80	45 (1143)	91 3/4 (2332)	8-11 3/4	2.74	18-5	5.61
90	50 5/8 (1286)	103 1/4 (2623)	10-1 1/2	3.08	20-8 3/4	6.32
100	56 1/4 (1429)	114 3/4 (2915)	11-3 1/4	3.43	23-1/2	7.02
110	61 7/8 (1572)	126 1/4 (3206)	12-5	3.78	25-4 1/4	7.73
120	67 1/2 (1715)	137 3/4 (3498)	13-6 3/4	4.13	27-8 1/4	8.44
130	73 1/8 (1857)	149 1/8 (3789)	14-8 1/2	4.49	30-1/4	9.15
140	78 3/4 (2000)	160 5/8 (4081)	15-10 1/2	4.84	32-4	9.86
150	84 3/8 (2143)	172 1/8 (4372)	17-1/2	5.19	34-8	10.57
160	90 (2286)	183 5/8 (4663)	18-2 1/2	5.55	37-1/4	11.28
170	95 5/8 (2429)	195 1/8 (4955)	19-4 1/2	5.91	39-4 1/4	11.99
174 1/4	98 (2490)	200 (5079)	19-10 1/2	6.06	40-4 1/4	12.30

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

Specifications

		DLA-RS20
Device		0.7inch D-ILA x3
Resolution		1920 x 1080 pixels
Lens		2x motorized zoom & focus f=21.4mm – 42.8mm F=3.2 – 4
Lens shift		±80% Vertical / ±34% Horizontal (motorized)
Projection size		60 - 200 inches
Light source Lamp		200W UHP
Brightness		900lm
Contrast ratio		Native: 50,000:1
Terminals		HDMI (ver.1.3) x2 Component x1 (RCA) S-Video x1 (mini DIN) Composite x1 (RCA) PC x1 (D-sub 15-pin) Trigger x1 (mini jack) RS-232C (D-sub 9-pin)
Video input signal		480i/p, 576i/p, 720p 60/50, 1080i 60/50, 1080p 60/50/24
PC input signal	Digital	VGA/SVGA/XGA/WXGA/WXGA+/SXGA/WSXGA+/WUXGA
	Analog	VGA/SVGA/XGA/WXGA/WXGA+/SXGA/SXGA+/WSXGA+
Noise level		19dB (Normal mode)
Power requirement		AC 110 - 240V, 50/60 Hz
Power consumption		280W (Stand-by mode:1W)
Dimensions (W x H x D)		14.37 x 6.58 x 18.82 inches 365 x 167 x 478 mm
Weight		24.25 lbs 11.0kg

Terminals on the side

Optional Accessories

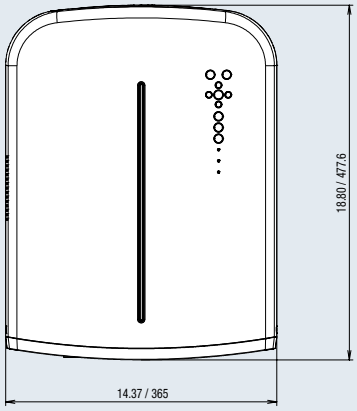
User-replaceable Lamp
BHL5010-S

Anamorphic Lens
RSAL1

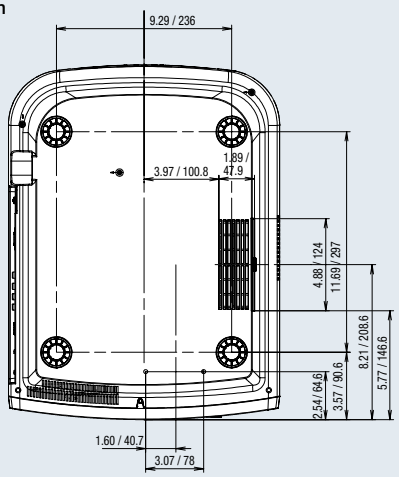
Advanced Video Processor
RSVP2

External dimensions

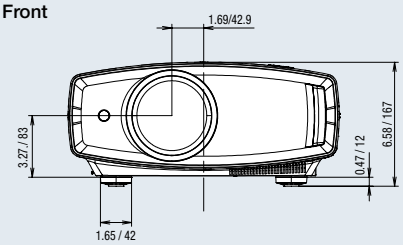
■ Top (Unit: inches/mm)



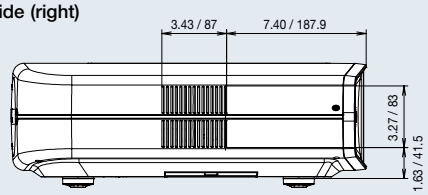
■ Bottom



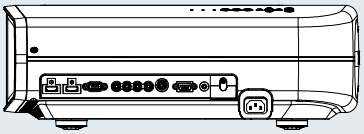
■ Front



■ Side (right)



■ Side (left)



Design and specifications are subject to change without notice.
The projector is equipped with a high-pressure mercury lamp, which may break, emitting a loud noise, when it is subjected to shock or after it has been used for a somelength 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. The owner of the projector is responsible for all costs related to the replacement of the lamp.

- *The projector lamp requires periodic replacement and is not covered by warranty.*
- *Please note that, although the D-ILA device is manufactured using highly advanced technologies, 0.01% or fewer of the pixels may be non-performing.*

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D-ILA
The Technology for IMAGES OF PERFECTION

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