



# DLA-X590

D-ILA Custom Install Projector

## Procision



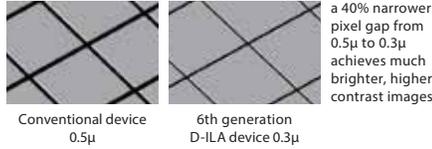
*The affordable DLA-X590 features upgraded 4K e-shift5 and delivers a significant improvement in picture quality. The model also upgrades UHD HDR dynamic range when using JVC's Intelligent Aperture. Low latency mode improves picture quality, speeds operation, and delivers faster response time when gaming. Any 4K 60P source connected to one of its two 18Gbps HDMI/HDCP 2.2 compatible inputs is sure to impress even your most discerning viewers.*

- 1800 Lumens with High Power Lamp (PK-L2615U)
- 40,000:1 Native Contrast Ratio
- Intelligent Lens Aperture increases dynamic contrast ratio to 400,000:1
- Three 1920 x 1080 0.7-inch D-ILA devices
- e-shift5 4K Precision 3840 X 2160 Projected Image — *upgraded for 2018*
- Two 18Gbps HDMI/HDCP 2.2 Compatible Inputs
- Advanced HDR usability w/brighter, more detailed HDR content — *upgraded for 2018*
- Improved Motion Enhancement (2D, 3D, 4K) w/CMD
- Multi Pixel Control (MPC) w/Auto Mode  
MPC works with 4K60P (up to 4:4:4) signals
- Low Latency Mode improves picture, speeds operation, and reduces gaming/PC frame delays
- 1.4:1 to 2.8:1 motorized zoom lens w/Horizontal and Vertical offset
- Lens memory function memorizes 5 positions for focus, zoom and shift (*Maintains constant height for 2.35, 1.85, 1.78 on same screen*)
- Control: Control4 SDDP / LAN / RS-232C / IR / 12V Screen Trigger Output / 3D Sync Output

Note: Optional Active 3D Glasses (PK-AG3) and RF Emitter (PK-EM2) are required for viewing images in 3D.



**D-ILA** JVC's 6<sup>th</sup> Generation D-ILA Imaging Device  
 The exceptional picture quality achieved by JVC projectors is a result of the precision technology behind the D-ILA device which features a 0.3μ pixel gap and high light efficiency for bright, high native contrast and superior detail.



## 4K Precision JVC e-shift5 Technology

The 5<sup>th</sup> generation of e-shift analyzes every pixel in a native 4K signal to provide more optimization and better sharpening. It also vastly improves the detail in very small text. AUTO mode in Multiple Pixel Control conveniently detects your current input and adds signal compatibility extending to 4K60P (up to 4:4:4).



## HDR10 plus Hybrid Log-Gamma

HDR content such as UHD Blu-ray discs incorporate extended dynamic range, 10bit color and wide BT.2020 color gamut. DLA-X590 supports BT.709 and offers a HDR color profile with BT.2020 color mapping, with high native contrast and bright vivid images. HDR content can be displayed with increased dynamic range when using the Intelligent Lens Aperture.

Hybrid Log-Gamma is an additional HDR Gamma mode that is used for live broadcast or streaming events.

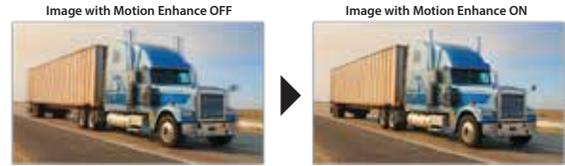


## 18Gbps Full Speed HDMI Inputs with HDCP2.2

JVC has incorporated the latest HDMI/HDCP2.2 standard on both HDMI inputs allowing for two HDCP2.2 copy protected devices to be connected at the same time up to 60 fps.

## Motion Enhance – Blur reduction technology

Motion Enhance technology minimizes motion blur significantly by optimizing the drive of the D-ILA device working in combination with Clear Motion Drive. Motion Enhance is also compatible with 4K and 3D signals to give a smooth and detailed image for a variety of scenes.



## Control4 Home Automation

Every Reference Series projector is Control4 SDDP (Simple Device Discovery Protocol) software certified so it can easily be integrated into a Control4 home automation system.

## Optional Equipment



## Connectors



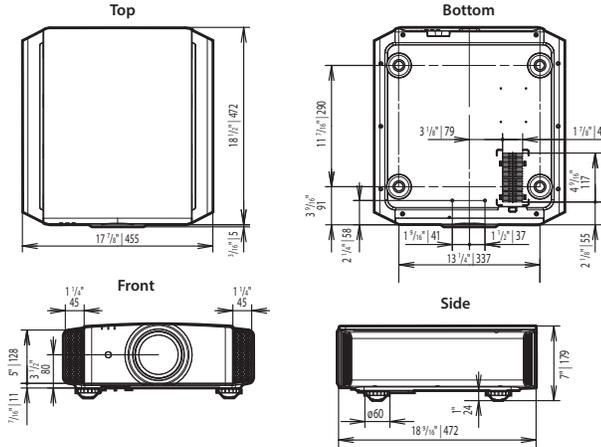
## Specifications

		DLA-X590
Imaging device		0.7 inch Full HD D-ILA (1920 x 1080) x3
4K e-shift5 Technology		Yes
Resolution		3840 x 2160 Precision via e-shift5 technology (1920 x 1080 in 3D mode)
Lens		2X Motorized Zoom & Focus, (f2)1.4 to 2.8 (f4) Throw Distance Range Throw distance=Screen width X1.4 (Min.), Screen width X2.8 (Max.)
Lens Shift		Motorized Shift±80% Vertical and ±34% Horizontal
Light Source		NSH 265W Lamp (lamp life: approx. 4500 hours when the lamp is in Low mode)
Contrast Ratio		Native: 40,000:1   Dynamic: 400,000:1
Input Terminals	HDMI	2 (Full Speed 18Gbps HDMI/HDCP 2.2 Compatible w/HDR)
Output Terminals	3D Sync	1 (Mini DIN 3pin)
	Trigger	1 (Mini jack, DC12V/100mA)
Control Terminals	RS-232C	1 (D-sub 9pin)
	LAN (RJ-45)	1
Digital Video Signal		480p, 576p, 720p/50 Hz, 720p/60 Hz, 1080i/50 Hz, 1080i/60 Hz, 1080p/24 Hz, 1080p/50 Hz, 1080p/60 Hz, 3840x2160/24Hz, 3840x2160/25Hz, 3840x2160/30Hz, 3840x2160/50Hz*, 3840x2160/60Hz*1, 4096x2160/24Hz*2, 4096x2160/25Hz*2, 4096x2160/30Hz*2, 4096x2160/50Hz*1,2, 4096x2160/50Hz*1,2
3D Signal	Frame Packing	720p/50 Hz, 720p/60 Hz, 1080p/24 Hz
	Side-by-Side	1080i/60 Hz, 1080p/60 Hz, 1080i/50 Hz, 1080p/50 Hz, 1080p/24 Hz, 720p/50 Hz, 720p/60 Hz
	Top-and-Bottom	720p/50 Hz, 720p/60 Hz, 1080p/24 Hz
PC Input Signal Format	HDMI	VGA 60, VGA 59.94, SVGA 60, XGA 60, WXGA 60, WXGA+ 60, SXGA 60, WSXGA+ 60, WUXGA 60
Dimensions	(WxHxD-inches)	17 7/8 x 7 x 18 9/16
Weight (net)	(lbs)	34

\*1 When the color space is RGB/YCbCr(4:4:4), only 8-bit input is supported.

\*2 4096x2160 Signal will be cropped equally on left and right side and image will be displayed 3840x2160.

## External Dimensions (unit: inches | mm)



### Notes about viewing 3D video content

• The optional 3D Synchro Emitter and 3D glasses are required to view 3D images from the D-ILA projectors. 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 as headaches, dizziness, eye fatigue, etc. occurs. • 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.

• The projector is equipped with a new super-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 the projector's warranty. • The lamp warranty is one year or 1000 hours, whichever comes first. • 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). • Design and specifications are subject to change without notice. • All pictures on this brochure are simulated. • Adobe is a trademark or registered trademark of Adobe Systems Incorporated in the U.S. and/or other countries. • 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. • Any rights not expressly granted herein are reserved.

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