

Note: As stated in this brochure, the DLA-NZ9, DLA-NZ8, and DLA-NZ7 models are the world's first home theater projectors (as of September 2021) to support 8K60p/4K120p input; according to a research conducted by JVCKENWOOD.

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- 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-NP5 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.
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D-ILA Projectors
DLA-NZ9/NZ8/NZ7/NP5

8K. LASER. HDR. The ART of PROJECTION



Made in Yokosuka, Japan

8K. LASER. HDR. The ART of PROJECTION

The beauty of D-ILA images is a marvel of engineering.
It has expanded beyond technology into the realm of art.

D-ILA
Developed the first
D-ILA device

1997

Development of D-ILA imaging devices began in 1997. Ever since, JVC has remained on the cutting edge, incorporating the most advanced imaging technologies of the times. Now, after a quarter century of evolution, we are proud to present a new chapter in our story from Yokosuka, Japan, where D-ILA devices are developed and produced.



2007



2004

0.8" Full HD D-ILA device

8K
e-shift
8K/e-shift
model



2018

2016



4K

Native 4K D-ILA device

2011



4K
e-shift

4K/e-shift model

2022

8K
e-shiftX

BLUeScent

D-ILA

HDR
10 bit Dynamic Range

HDR10+

FILMMAKER MODE

3D



Yokosuka, Japan



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

8K e-shiftX

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

NZ9 NZ8

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
3840 x 2160 px



4K Input NP5

From Blu-ray and gaming consoles to 4K streaming services, native 4K content can be enjoyed to its fullest on JVC D-ILA projectors.

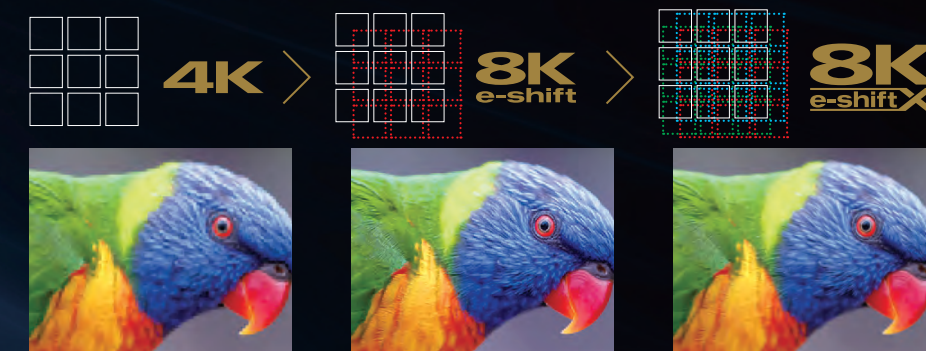
8K
7680 x 4320 px



8K Input NZ9 NZ8 NZ7

Experience the overwhelming resolution achieved by 8K input and 8K/e-shift, or 8K input and 8K/e-shiftX.

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*¹ 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.

*1: As a home theater projector, as of September 2021; according to research by JVC KENWOOD.

*2: Except for the DLA-NP5



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

The high-end DLA-NZ9 is equipped with an 18-element, 16-group all-glass lens featuring a full aluminum 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 color 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-NZ8, NZ7 and NP5 models.

^{*4}: Resolution varies depending on the model.

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

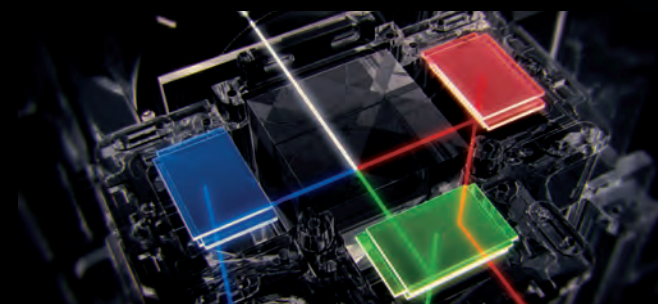


Ultra-High Contrast Optics with 4K D-ILA device

NZ9 NZ8

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-NZ9 and NZ8 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-NZ9 and 2,500 lumens for the NZ8. Refer to page 10 for the brightness of other models.



4K
D-ILA

NZ9



100mm

NZ8

NZ7

NP5



65mm

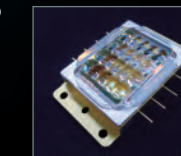
BLU-Escent

BLU-Escent Laser Diode for exceptional brightness and longevity

NZ9 NZ8 NZ7

The D-ILA home-theater projectors (except the DLA-NP5) are equipped with the blue laser diode BLU-Escent, which is used in professional applications such as simulators. This laser diode allows dynamic control of brightness and exceptional brightness of 3,000 lumens to reproduce images that are closer to human perception. What's more, a single BLU-Escent laser light source delivers longevity of 20,000 hours^{*6}. Combining the latest BLU-Escent package with the D-ILA device achieves a detailed, smooth, powerful video expression.

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



Unparalleled black level and high luminance deliver images brimming with reality

NZ9 NZ8 NZ7

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-NZ9, 80,000:1 for the NZ8, and 40,000:1 for the NZ7, all with ∞ :1 dynamic contrast ratio. The NP5 delivers 40,000:1 native contrast ratio with 400,000:1 dynamic contrast ratio.

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

New

New algorithm on the dynamic control^{*8}

NZ9 NZ8 NZ7

Dynamic control was previously based on the average luminance of the entire scene. With the new mode, adjustment is based on the peak luminance. This results in images with increased dynamic range. In particular, the new mode improves reproduction of content such as stars twinkling in pitch blackness and nightscapes. In addition, even images with low peak luminance can be enjoyed with a greater sense of contrast.^{*9}



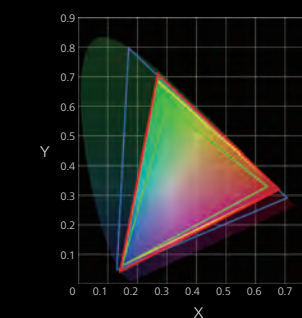
^{*8}: Not available on the DLA-NP5 with lamp light source.

^{*9}: The feature will be available through a firmware update scheduled for November 2022.

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

NZ9 NZ8

The use of a laser light source and cinema filters enables a wide color gamut equivalent to DCI-P3, not to mention BT.709. When HDR content is projected on the DLA-NZ9 or the NZ8, it's possible to richly reproduce colors such as the gradations of the sky and ocean, the contrast of red roses, or a row of fresh green trees.



— DLA-NZ9/NZ8 — BT.709 (sRGB) — DCI — BT.2020

Supports FILMMAKER MODE™ and 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 color 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. HDR10+ contains the metadata of the producer's intentions for each scene, and with such data, the projector is able to automatically reproduce images as the creator had planned. Frame Adapt HDR instantly analyzes the peak brightness in HDR10 content using an original algorithm, and adjusts to the optimal dynamic range for image projection. Even content without mastering information can be analyzed based on the input signal, so all kinds of HDR10 content can be viewed with optimal picture quality.

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



New



FILMMAKER MODE™ that faithfully recreates the creator's intentions

FILMMAKER MODE™ was developed by the UHD Alliance, an organization of Hollywood movie studios, TV studios, content distributors, consumer electronics manufacturers, and device developers, with the aim of faithfully reproducing the filmmakers' intentions in the home. When using the mode, picture quality adjustment functions such as frame interpolation, and noise reduction are turned off, and the color temperature is set to D65 (6500K), allowing users to enjoy movies and documentaries with picture quality that is faithful to the original master. *9

*9: The feature will be available through a firmware update scheduled for November 2022.



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 images*10.



Clear Motion Drive: Off Clear Motion Drive: On

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

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



■ **Auto Calibration function** optimizes all essential elements found in the image, including color balance, gamma characteristics, color space, and color tracking, using an optical sensor and proprietary software*11.



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

*11: 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.

■ **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.

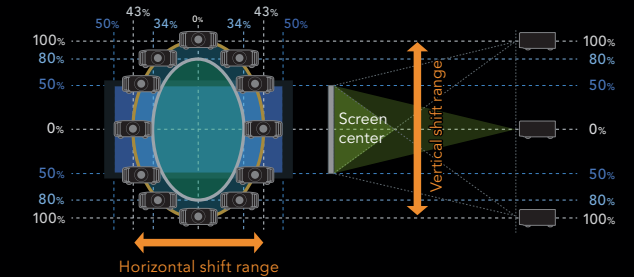


Installation Mode and Memory graphical interfaces

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



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

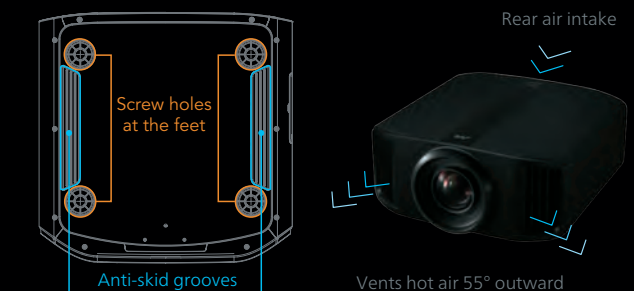


Range capable for the DLA-NZ9

Range capable for the DLA-NZ8/NZ7/NP5

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

■ **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 the anti-skid grooves prevent the projector from slipping when installed.



DLA-NZ9 D-ILA Projector

8K e-shiftX BLUEScent D-ILA



100mm HQ Lens



DLA-NZ8 D-ILA Projector

8K e-shiftX BLUEScent D-ILA



DLA-NZ7 D-ILA Projector

8K e-shift BLUEScent D-ILA



DLA-NP5B/W D-ILA Projector

4K D-ILA



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

Specifications

GENERAL		DLA-NZ9	DLA-NZ8	DLA-NZ7	DLA-NP5
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 Motorized Zoom & Focus, All-glass Lens			
	Diameter	100 mm	65 mm		
Lens Shift	Vertical/Horizontal (motorized, 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 Color Gamut		•			–
Input Terminals	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 Terminal	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-NZ9	DLA-NZ8	DLA-NZ7	DLA-NP5
8K60p Input		•	•	•	–
4K120p input		•	•	•	•
Ultra-High Contrast Optics		•	•	–	–
HDR	HDR10+	•	•	•	•
	HLG	•	•	•	•
	Mastering Info Display	• (Max CLL/Max FALL)			
	Frame Adapt HDR	•	•	•	•
	Theater Optimizer*12	•	•	•	•
	Auto Tone Mapping	•	•	•	•
FILMMAKER MODE™*9		•	•	•	•
3D Support		•	•	•	•
Clear Motion Drive		•	•	•	•
Motion Enhance		•	•	•	•
Low Latency Mode		•	•	•	•
Auto Calibration		•	•	•	•
Installation Mode		• (10 memories)			
isfcc Certification		•	•	•	•
Screen Adjustment Mode		• (199 modes)*9			

*9: The feature will be available through a firmware update scheduled for November 2022.
*12: Theater Optimizer can be activated only when the projector's picture mode is set to Frame Adapt HDR.

Optional Accessories

VX-UH1150LC

HDMI Cable

15 m long, 48Gbps HDMI cable that supports 8K60p/4K120p transmission. A fully-certified Ultra High Speed HDMI™ Cable.



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

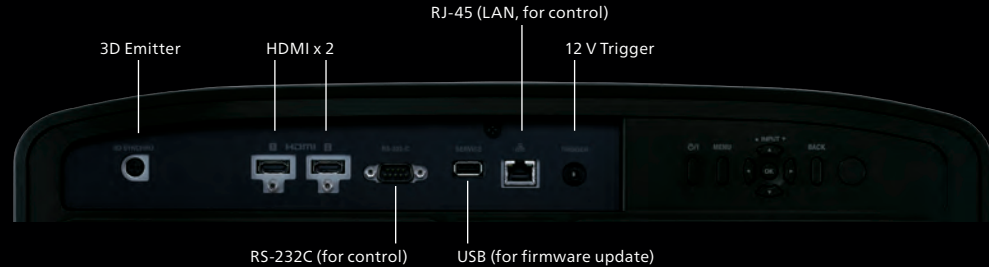
NP5

Replacement Lamp

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

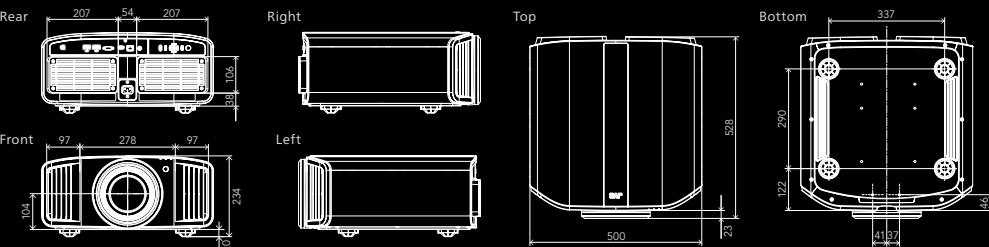


Connectors

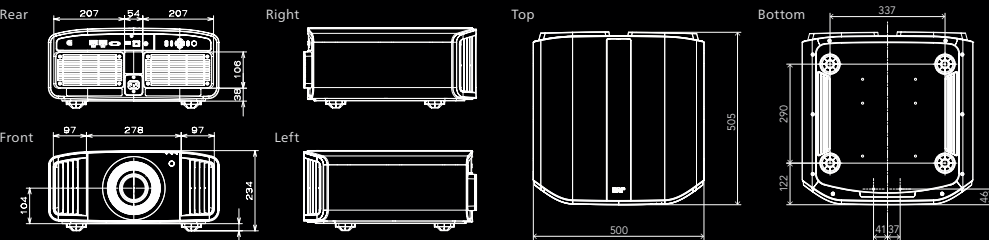


External Dimensions

DLA-NZ9



DLA-NZ8/DLA-NZ7



DLA-NP5

