NEWS RELEASE

New JVC. D-ILA Home Theater Projectors Deliver Increased Brightness and Contrast

All models feature new third-generation 4K. D-ILA. Devices with increased Brightness that enable users to experience enhanced 8K. images.

(Hyderabad), (India), May 01, 2024 – JVC Kenwood Corporation is proud to announce four new high-End D-ILA. home projectors DLA-NZ900BE. and DLA-NZ800BE., all capable of inputting and displaying 8K. 60p resolution images with higher native contrast and brightness.

Each model features JVC's new exclusive 4K. D-ILA. devices that have been further refined to the third generation to achieve a 1.5 times higher native contrast ratio when compared to a conventional device. JVC's New Proprietary BLU-Escent Laser light Engine increases brightness and luminosity. Users can experience higher definition images through the vastly improved performance of these projectors, achieved through 8K. input and display, and the expansion of dynamic range by improving contrast and brightness.

Planning Objectives

Over the past few years, how video content is watched has evolved, and this change has led to making 4K. / HDR. content the norm. Video content has progressed from content led by movie companies and TV. stations to those offered by subscription and streaming services. At the same time, the format has shifted from conventional disc media such as Blu-ray and Ultra HD. Blu-ray to streaming and subscriptions. Furthermore, 8K. video content is expected to increase with the launches of 8K streaming services like YouTube™ and the release of 8K. - Compatible game titles with the development of enhanced graphic cards in the gaming industry.

In addition to a variety of ways to enjoy video content, viewing style has also changed from conventional TV's. to smartphones, tablets, etc. At the same time, more and more users want to cut out the middleman and bring the theater experience into their own homes.

JVC. has consistently released D-ILA. projectors focusing on targeting full-scale theater rooms for customers who truly enjoy the home theater experience. Although the content being viewed is changing, the customer's desire to enjoy the highest quality image on a large screen remains unchanged.

Today, we are announcing the release of 2 New Models, DLA-NZ900BE. / DLA-NZ800BE. All models are capable of inputting and displaying 8K. images with enhanced performance. The dynamic range has been greatly extended thanks to the newly developed third-generation 4K. D-ILA. Device with higher native contrast, and the higher output power BLU-Escent laser light source. As a result, these elite models let users enjoy the highest-quality 8K. images*.*.

*As of March 2024.

Key Features

1. Ultra dynamic projection achieved with the combination of the new generation 4K. D-ILA. Device and BLU-Escent Laser light Engine

1) Sharper images and ultra-high contrast ratio is achieved with the third generation 0.69-inch native 4K. D-ILA. Device

JVC's proprietary 0.69-inch native 4K. D-ILA. device has been refined to its third generation to offer 1.5 times the native contrast ratio compared to the previous model*. The new device, featuring innovative technology, boasts improved alignment control of liquid crystals and enhanced flatness of image pixels. Additionally, the device manufacturing process has been advanced to improve screen uniformity. As a result, DLA-NZ900BE. is capable of achieving a native contrast ratio of 150,000:1 (100,000:1 for the DLA-NZ800BE.).

*When compared to the DLA-NZ9.

2) BLU-Escent Laser engine for higher peak brightness

JVC's original BLU-Escent Laser, which uses a blue laser diode as a light source, has been optimized to achieve exceptional brightness of 3,300 lumens on the DLA-NZ900BE. and 2,700 lumens on the DLA-NZ800BE., both with the longevity of 20,000 hours.

When compared to our first-generation laser projector*, the projector's brightness per effective wattage has improved 1.9 times, which saves power.

*When compared to the DLA-Z1.

3) Dynamic light source control and ultra-high native contrast provide images that are closer to human perception

Unlike conventional aperture control, the laser diode contributes to the instantaneous control of light output to enable dynamic brightness control with little or no latency. It achieves a dynamic contrast level of ∞:1 (infinity to 1) in scenes with pitch blackness by completely shutting off the light source. Also, by controlling the laser output according to the brightness of the video scene, images are closer to human perception. The latest laser diode features a new control algorithm that enables greater precision to meet customer's needs. The number of light source control steps has increased from three to 101 steps, which helps make fine adjustments to meet or exceed critical SDR and HDR environments

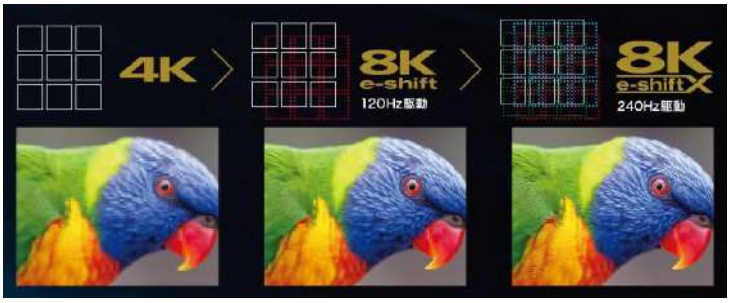
2. Improved 8K. Projection

1) Projectors capable of inputting 8K.60p and 4K.120p Signals

The new models are capable of inputting full 48Gbps. 8K.60p signals. This is made possible by the adoption of advanced LSIs that enable information four times larger than a 4K input to be instantly processed from input to the D-ILA. device. As a result, 8K signals can be correctly displayed.

Also, 4K120p input and low-latency mode make these projectors effective when displaying high frame-rate gaming and similar content.

2) Second-generation 8K. / e-shiftX technology improves the ability to reproduce 8K. (8192 x 4320 pixels) display resolution



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 in four directions up, down, left, and right, and 0.69-inch native 4K D-ILA device – has evolved to the second generation. With JVC's original ultra-resolution processing applied to the 8K. / e-shiftX technology, the projector's reproducibility across a wide range of content, including 8K. (8192 x 4320 pixels) sources, has improved dramatically.

3) All-Glass Lens for all models

▪ The DLA-NZ900BE. uses a large 100 mm lens to accurately reproduce native 8K. images.

The DLA-NZ900BE. has an 18-element, 16-group 100 mm. All-Glass lens featuring a full aluminum lens barrel. To project high-resolution 8K. images to every corner of the screen while securing wide shift ranges of 100% vertically and 43% horizontally. The projector also incorporates five extra-low dispersion 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.

▪ 65-mm lens for the DLA-NZ800BE. to project high-definition images down to the smallest detail

The DLA-NZ800BE. is equipped with a 17-element, 15-group 65-mm all-glass lens to achieve high-resolution images in focus throughout the screen's periphery.

3. Supports a variety of HDR. (High Dynamic Range) Content

JVC. can reproduce the rich video information of HDR. content with extended brightness range, BT.2020 wide color gamut, and 10-bit gradation. In addition to a wide range of HDR.. formats, including HDR10. for UHD. Blu-ray and streaming, HLG. (Hybrid Log Gamma) for broadcasting, and HDR10+ signal format with dynamic metadata compatibility, the projectors' improvements for higher brightness and contrast have helped to achieve a wider dynamic range, allowing users to enjoy HDR images full of reality and a sense of immersion.

1) JVC's proprietary Frame Adapt HDR. Generation 2 Technology

The Frame Adapt HDR. 2nd Generation technology uses a proprietary algorithm to instantaneously analyze the maximum brightness of HDR10. content per frame and adjusts the dynamic range in real-time to the optimum range for video projection. The tone mapping algorithm has been completely reexamined for the scene and frame to achieve HDR. images with higher definition. In addition, the proprietary algorithm for tone curve selection has been improved to reproduce HDR images that are brighter, more colorful, and have a wider dynamic range.

Each projector is now equipped with a Deep Black function as a part of the Frame Adapt HDR, using an algorithm that extends dark tones to deliver a more realistic expression of darkness.

2) FILMMAKER MODE™ for faithfully recreating the creator's original intentions

The new projectors feature FILMMAKER MODE™, which was developed by the UHD. Alliance, an organization of professionals and industry members, to accurately reproduce the filmmakers' intentions in the home. Using this mode turns off picture quality adjustment functions such as frame interpolation and noise reduction and sets the color temperature to D65. (6500K.), so users can enjoy movies and documentaries with picture quality that is authentic to the filmmaker's vision.

4. Cinema filters richly reproduce colorful images with a wide color gamut equivalent of DCI-P3.

The use of cinema filters enables a wide color gamut equivalent to DCI-P3., as well as BT.709. HDR. content, as typified by UHD. Blu-ray, uses a much wider color gamut than before. When such content is projected on wide color gamut projectors like the DLA-NZ900BE. and DLA-NZ800BE., 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.

5. JVC's original Clear Motion Drive* helps to reproduce smoother moving images

Clear Motion Drive*, a JVC. original technology that reduces afterimages, has improved its algorithm for compensation accuracy in the periphery of intersecting objects. Together with Motion Enhance technology that optimizes the drive of the D-ILA. device in response to video motion, the new projectors offer much smoother reproduction of 4K. and 8K. images.

*The function is disabled when inputting 4K120p signals.

Other features

- A new picture quality mode, Vivid, has been added for reproducing SDR. content rich in color. Offering bright, rich colors and crisp picture quality, this mode is especially designed for animated works that are popular in streaming content.
- 3D compatible – requires optional emitter and 3D. Glasses.
- Features Ultra-high Contrast Optics that deliver clear and colorful video images.
- ISFccc Certified, so color calibration can be performed by an ISF.- Certified calibrator based on an industry standard.
- 10 Installation Modes can be set to unique settings with the touch of a button to change aspect ratios and picture settings including brightness, contrast, pixel adjustment, and masking.
- The 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. With the sensor and software, optimum calibration can be applied in just a few

easy steps to match the changes in optical characteristics given the environment of the installation.

*An optical sensor and proprietary software, PC, and LAN cable are required to perform the auto-calibration function.

- Screen Adjustment Mode allows users to input the screen information including aspect ratio, size, and gain so that the projector will automatically adjust the image with natural color balance to match the screen. This mode is compatible with the latest screens offered by major screen manufacturers around the world.
- Rear air intake and front exhaust layout provide flexibility for a variety of installations, including a placement close to the wall.

DLA-NZ900BE.

DLA-NZ800BE.

Specifications

GENERAL		DLA-NZ900BE	DLA-NZ800BE.
Body color		Black	
Device		3rd generation 0.69-inch native 4K. D-ILA. Device (4096 x 2160) x3	
8K60p input		Yes	
4K120p input		Yes	
Display resolution		8,192 x 4,320 (8K./e-shiftX)	
Lens		x2 motorized zoom & focus, all-glass lens 100 mm diameter	x2 motorized zoom & focus, all-glass lens 65 mm diameter
Lens shift		100% vertical range, 43% horizontal range (motorized)	80% vertical range, 34% horizontal range (motorized)
Projection display size (diagonal)		60–300 Inch	60–200 Inch
Light source		BLU-Escent Laser	
Brightness		3,300 Lumens	2,700 Lumens
Contrast ratio	Dynamic	∞:1	
	Native	150,000:1	100,000:1
Ultra-high contrast optics		Yes	
Cinema filter (DCI-P3 color gamut)		Yes	
Connections	HDMI in	x2 (48 Gbps/HDCP 2.3 compatible)	
	Trigger out	x1 (Mini-jack, DC 12V/100mA)	
	3D Synchro out	x1 (Mini-Din 3-pin)	
	RS-232C	x1 (D-sub-9pin)	
	LAN	x1 (RJ45)	
	Service	1 (USB Type A) for firmware update and backing up settings	
Digital video signal range		480p, 576p, 720p 60/50, 1080i 60/50, 1080p 120/100/60/50/30/25/24, 2560 x 1440p 120/60 3840 x 2160p 120/100/60/50/30/25/24, 4096 x 2160p 120/100/60/50/30/25/24, 7680 x 4320p 60/50/48/30/25/24	
3D resolution versions	Frame packing	720p 60/50, 1080p 24	
	Side-by-side	720p 60/50, 1080p 60/50/24, 1080i 60/50	
	Top & bottom	720p 60/50, 1080p 24	
Power consumption		440W (Network standby: 1.5W, Eco-mode standby: 0.3W)	
Fan noise		24 dB	
Power requirement		AC 100-240V, 50/60Hz	
Dimensions (W x H x D)		19.66 in x 9.21 in x 27.78 in / 500 mm x 234 mm x 528 mm	19.66 in x 9.21 in x 19.88 in / 500 mm x 234 mm x 505 mm
Weight (net)		55.7 lb / 25.3kg	50.9 lb / 23.1kg

Optional Accessories

PK-AG3 3D RF Active Shutter Glasses

PK-EM2 3D RF Emitter (paired with the PK-AG3)

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