

## LENS TABLE

Lens	UST	Short throw	Wide Zoom 2	Wide Zoom 1
Model Name	LSIST4	LSIST3A	LSIST2A	LSIST1A
Part Number	5J.JCY37.001	5J.JPN37.001	5J.JPN37.002	5J.JPN37.003
Throw Ratio	0.38	0.77-1.1	1.1-1.3	1.25-1.6
Lens Shift	"V: -3% ~ +7% H: -5% ~ 5%"	"V: -15 ~ +55% H: -5% ~ +5%"	"V: -15 ~ +55% H: -5% ~ +5%"	"V: -15 ~ +55% H: -5% ~ +5%"
Picture				

Lens	Standard	Semi long	Semi long 1	Long zoom 1	Long Zoom2
Model Name	LSISDA	LSILT0	LSILT1	LSILT2	LSILT3
Part Number	5J.JPN37.004	5J.JPN37.005	5J.JAM37.051	5J.JAM37.031	5J.JAM37.041
Throw Ratio	1.54-1.93	1.93-2.9	2.22-3.67	3.58-5.38	5.31-8.26
Lens Shift	"V: -15 ~ +55% H: -5% ~ +5%"	"V: -15 ~ +55% H: -5% ~ +5%"	"V: 0 ~ +50% H: -10% ~ +10%"	"V: 0 ~ +50% H: -10% ~ +10%"	"V: 0 ~ +50% H: -10% ~ +10%"
Picture					

LU9800

# BenQ Laser Projector Product Guide

*Enduring BlueCore Laser Perfection*



<https://www.benq.com/en-ap/business/index.html>

BenQ Asia Pacific Corp.

12 Jihu Road, Neihu, Taipei 114, Taiwan

Tel : +886-2-2727-8899 Fax : +886-2-2656-2438

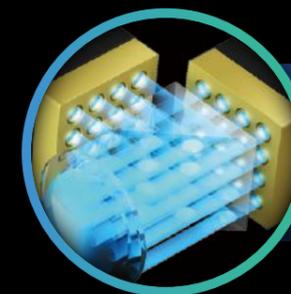
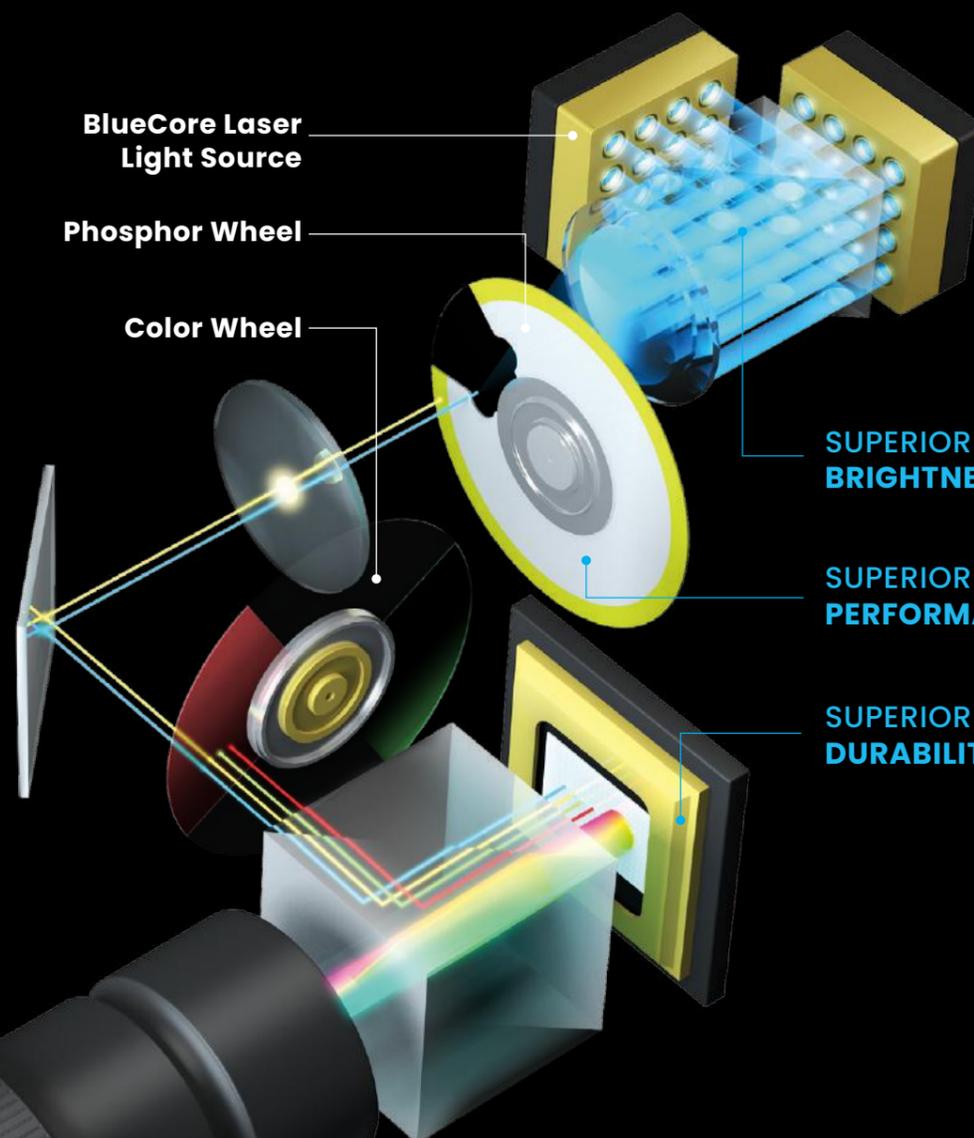
Dealer's Stamp

# BLUECORE LASER TECHNOLOGY

## SUPERB LONG-LASTING COLOR AND CLARITY FROM PROFESSIONAL BLUECORE LASER PROJECTION

BenQ proudly presents the comprehensive line of BlueCore laser high brightness projectors for professional installations. Generating pristine laser-infused colors to complement perfect 4K clarity, BenQ BlueCore projectors produce the ultimate in image quality, built to last with the maintenance-free laser light. And with dexterous installation flexibility to create captivating public displays, immersive exhibitions, and state-of-the-art control centers, BenQ BlueCore laser projectors open vast new opportunities for immersive visual communications.

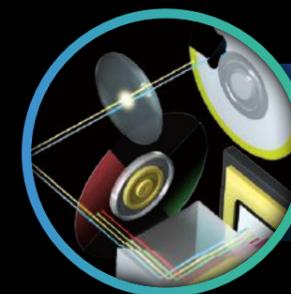
Leveraging the intense 10,000 ANSI-lumen brightness of dual-array laser light sources, BlueCore projectors incorporate dual color wheels and the native precision of I-chip DLP technology for strikingly vibrant colors. Guaranteed for over 20,000 hours of supreme image quality without lamp replacement, the failsafe redundant dual-array laser system delivers uninterrupted 24/7 dependability with the ability to be installed any angle as well as portrait orientation. Available in a full line including optional interchangeable or fixed lens configurations, BenQ BlueCore laser projectors enable vast new and imaginative ways of projection in a diverse array of applications.



### SUPERIOR BRIGHTNESS

#### • PRECISION-ALIGNED HIGH-OUTPUT LASER SOURCE

Zero-deviation alignment of BlueCore laser diodes boosts luminous flux into the light tunnel, improving light efficacy.



### SUPERIOR PERFORMANCE

#### • REC. 709 COLOR ACCURACY

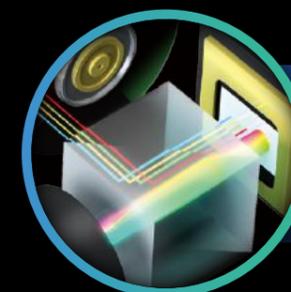
BenQ BlueCore laser projectors generate a wide color gamut, reaching up to 95% of the Rec. 709 international HDTV color standard for true-to-life color fidelity.

#### Dual Color Wheels

Dual synchronized BlueCore color wheels utilize an additive yellow segment, stimulating precise RGBY spectra for optimal chromatic performance.

#### Next-gen Bluecore Color Algorithms

Advanced software optimization and BenQ's proprietary color adjustments expand BlueCore projectors' color gamuts to ensure supreme color performances.



### SUPERIOR DURABILITY

#### • HERMETICALLY SEALED LIGHT ENGINE

BlueCore laser projectors feature sealed DLP chips and IP5X dustproofing, rejecting 100% of fine dust and particulate matter smaller than 2.5 micrometers.

#### • TRIPLE-STAGE COOLING SYSTEM

BenQ's BlueCore laser projectors feature advanced cooling technologies that include circulatory liquid cooling system, independent heat extraction pipes and the built-in thermoelectric cooling system to help projectors maintain continuous operation, as well as ultra-high reliability and durability.

**BLUECORE**  
LASER

## SOLUTION BY **BENQ** BLUECORE LASER PROJECTOR



## Staging

Potent BlueCore brightness and stunning color rendition make BenQ BlueCore optional lens laser projectors ideal for excitement-filled live productions, stage effects, and fashion shows, with the absolute assurance of laser reliability for flawless performances.

Likewise, BlueCore optional lens projectors produce inspirational backdrops for product launches, energetic conference stages, and engaging trade show exhibits.

Suggested Model

**LU9800**

## Museum / Art Gallery

Museums benefit from BlueCore optional lens laser projectors' powerful installation flexibility and magnificent image quality, creating wondrous exhibitions that captivate the public with BenQ's ingenious object mapping feature that transforms industrial landscapes, buildings, irregular shapes and objects into display surfaces for projection.

Suggested Model

**LU9800 / LU9750 / LU9245**





## Golf Simulation

Immersive Entertainment Meets Interactive Sophistication. Designed for those who appreciate refined leisure, it brings the golf course to life with stunning clarity and realism. Discover a new standard in home or commercial entertainment that blends seamlessly into your lifestyle.

Suggested Model

LK936ST / LU960ST2 / LU935T

## Flight Simulation Training in a small place

Advanced simulators and digital training platforms enter the next stage in ultra-realistic virtualization with short-throw BlueCore laser projectors, offering breathtakingly lifelike 4K picture quality.

Suggested Model LK936ST / LU960ST2



## Education

Futureproof BenQ interactive Classroom Projectors empower collaborative learning with pen or touch annotation and ultra-short throw projection based on brilliant laser light source.

Suggested Model

LU935 / LU930 / LH856UST / LH820ST



## Corporate Conference / Meeting Room

BenQ BlueCore laser projectors are the ultimate corporate visual communication devices, offering the state of the digital art in image quality and presentation impact for the world's premiere enterprises.

Suggested Model

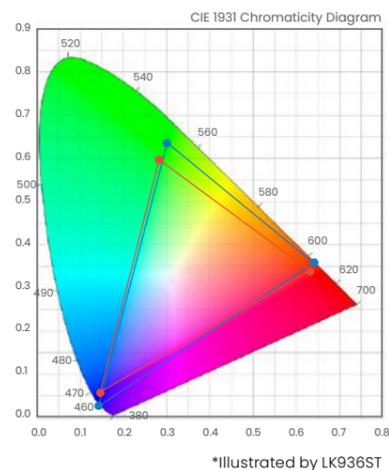
LU930 / LU935  
LK935 / LH650  
LW650

# BLUECORE LASER-INFUSED PRISMATIC COLOR PERFORMANCE

# SUPERIOR IMAGE QUALITY

## Dual Color Wheels for Optimal Color Rendition

BenQ BlueCore laser projectors utilize a dual color wheel system to harness the powerful laser light output, producing unparalleled color performance with extreme color ratios and RGBY purity achieved by eliminating the white segment of a conventional color wheel. Achieving an ideal mixture of red, green, blue, and yellow color segments, BenQ laser projectors produce a wider color gamut than conventional lamp-based projectors, providing optimized RGBY high color projection as well as stark bright white for brilliant presentations.



BlueCore Laser

Lamp Based

## DLP Technology for Lasting Vibrant Color

BenQ laser projectors are based on the absolute reliability of the 1-chip DLP design. The highly durable DLP chip can last over 100,000 hours without degradation, ensuring true-to-life colors and pristinely legible text over countless uses.

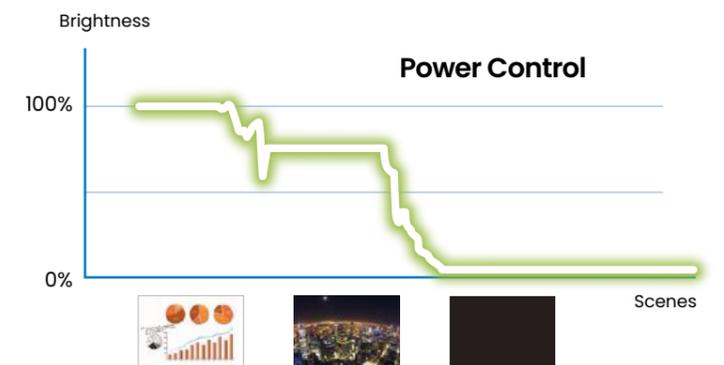


BenQ DLP Projector

Non-DLP Projector

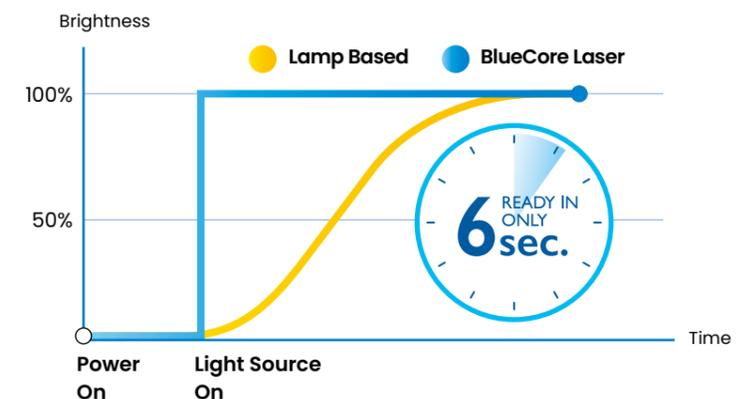
## Ultra-High Contrast with Automatic Power Control

BenQ BlueCore laser projectors directly control light output for faster response and strikingly clear images at a super-high contrast ratio of 100,000:1. Furthermore, automatic brightness adjustments preserve clarity and subtitle details in dark scenes and balance in bright scenes.



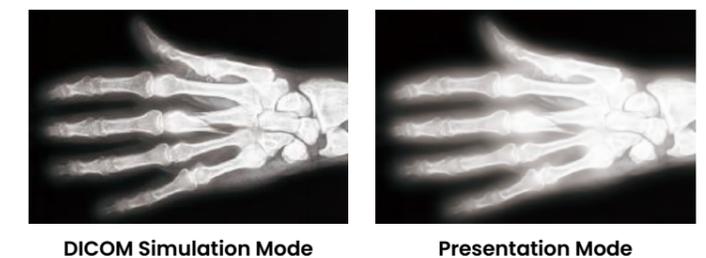
## Instant On/Off

BlueCore laser projectors power up in half the time of a lamp-based projector, which reduce wait time and power consumption. Instant On/Off is ideal for multi-projector venues such as museums and galleries to shorten opening and closing procedures.



## DICOM X-Ray Imaging

DICOM (Digital Imaging and Communication Medicine) is a standard for handling, storing, printing and transmitting medical imaging information. DICOM Simulation Mode is ideal for viewing grayscale medical images such as X-rays, with an advanced grayscale level for training and educational purposes.



DICOM Simulation Mode

Presentation Mode

\*Available for selected models: LU9800 / LU9750 / LK936ST / LU960UST / LU935ST

\*Not all features are available on all models.

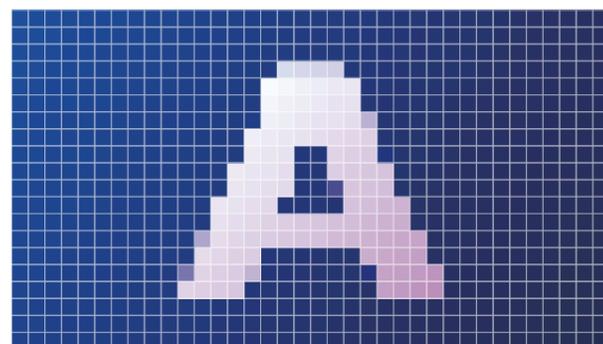
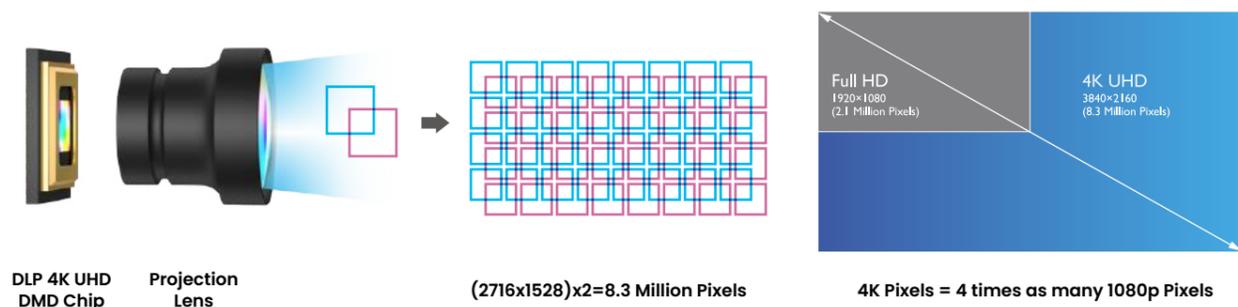
# PINPOINT IMAGE SHARPNESS DRIVEN BY 4K ULTRA RESOLUTION

# SUPERIOR IMAGE QUALITY

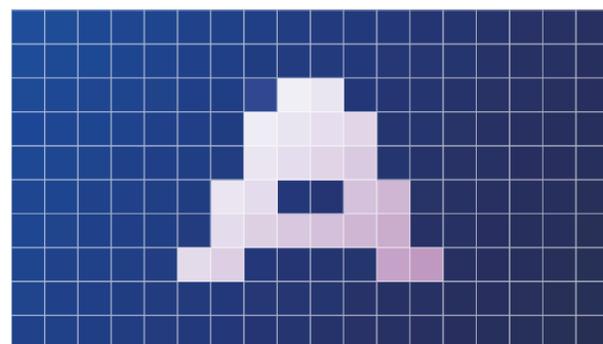
## Perfect 4K UHD Picture Quality with Ultrafine Details

BenQ BlueCore 4K laser projectors utilize the DLP 4K UHD DMD's 4.15 million micromirrors, the fast switching speed as well as the advanced image processing capability to achieve Consumer Technology Association's (CTA) 4K UHD specification, delivering a 3840x2160 resolution with 8.3 million distinct pixels for each frame. With a resolution that's four times higher than Full HD 1080p, 4K UHD reduces pixel blur for awe-inspiring clarity and crisply defined fine details.

\*Available for selected models: LK970 / LK952 / LK953ST



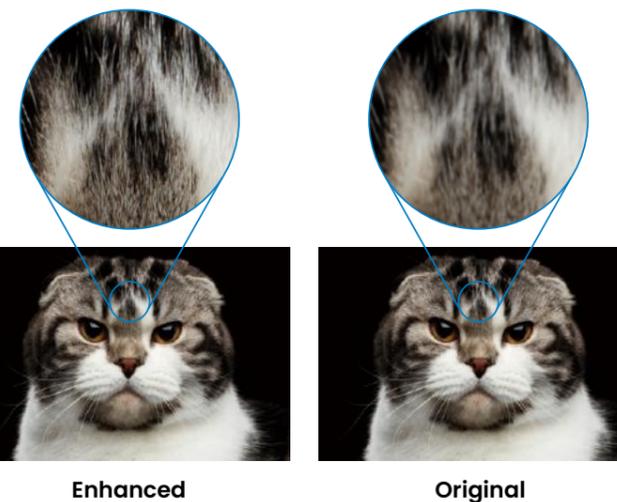
DLP 4K UHD



Full HD

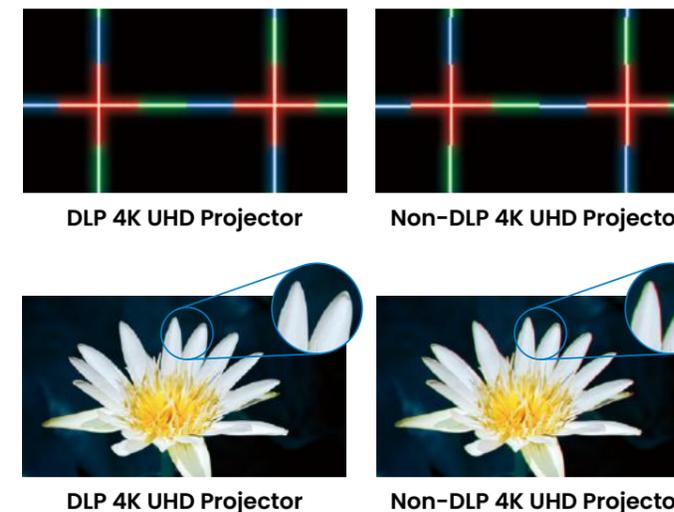
## Optimize Image Quality with 4K Image Amplifying Technology

To ensure supreme image quality, BenQ BlueCore 4K laser projectors utilize cutting-edge 4K Image Amplifying Technology to further enhance the quality of projected images. BenQ BlueCore 4K laser projectors automatically upscale the resolution of all projected images to 4K, guaranteeing superb image details. BenQ BlueCore 4K laser projectors also feature Pixel Enhancer 4K, a motion-adaptive edge enhancement feature that detects changes in color between an object and its background to produce sharp edges and precise surface textures.



## Superb Image Detail and Color Integrity from DLP Technology

To avoid inherent alignment issues of multiple panels, BenQ BlueCore 4K Laser Projector preserves color and image integrity with single DMD DLP technology. Generating razor-sharp images and pure colors, BenQ BlueCore 4K Laser Projector eliminates problems such as blurriness, shadowing, and interference patterns for immaculate clarity.



# ADVANCED INSTALLATION DEXTERITY FOR IMAGINATIVE APPELICATIONS

# EXCELLENT INSTALLATION FLEXIBILITY

## 360° and Portrait Projection to Accommodate Diverse Spaces

BlueCore laser technology guarantees reliable projection from any angle. Dynamic installation options such as 360° rotation and portrait orientation allow projection onto ceiling, walls, floors, or angled signage. The possibilities of impactful visuals in shopping centers, galleries, museums, and stages are endless.

\*Available for selected models: LU9800 / LU9750 / LU9245 / LK936ST / LU935 / LU960UST / LU935ST

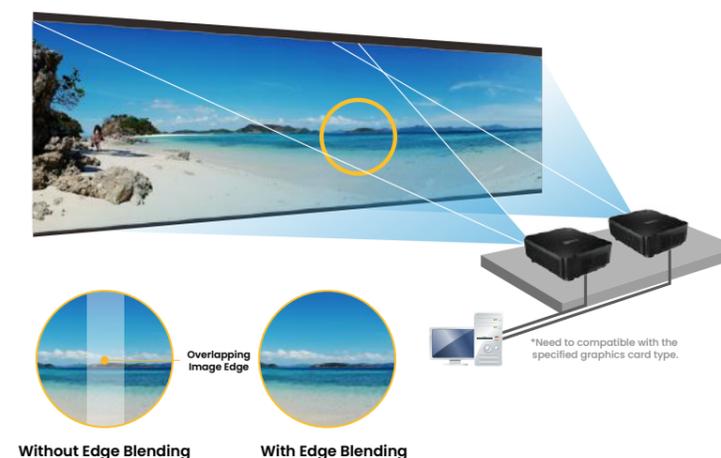


Portrait Application

## Integrated Edge Blending for Panorama Display

Edge blending is the brightness adjustment along intersecting areas of adjacent images using multiple projectors for consistent brightness blending. BlueCore projectors offer Custom Light Mode to modulate light power output from 20% to 100% in 0.5% increments, optimizing the projected image for a variety of ambient lighting situations. Consistency blending brightness across multiple projections, the color matching function can be used to calibrate any small differences in the color output profile of each projector. Moreover, Picture-in-Picture (PIP) and Picture-by-Picture (PBP) further enhance projection applications from multiple sources.

\*Available for selected models: LU9800 / LU9750

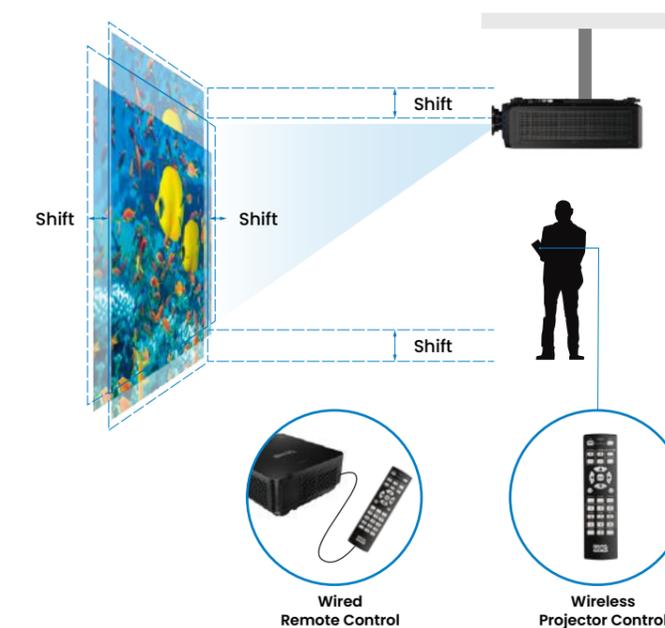


Without Edge Blending

With Edge Blending

## Zoom, Focus, and Lens Shift

The convenience of wide-range zoom, focus, and horizontal/vertical lens shift systems deliver perfectly proportioned images despite installation or placement challenges in any venue. BlueCore projectors with optional lens capability and motorized lens control offer simple remote control commands for omnidirectional adjustments to projector targets, eliminating manual labour to relocate or reconstruct mounting locations. Fixed lens BlueCore projectors offer wide-range vertical and horizontal lens shift to move the projected image up and down or left and right without sacrificing image quality. BenQ fixed lens projectors also feature up to 1.6X big zoom to enable a wide range of throw distances to significantly increase installation flexibility for diverse mounting options in various public display scenarios.



Wired Remote Control

Wireless Projector Control

## Digital Image Shrink and Shift

Digital image shrink and shift lets installers shrink the image to 75% of the original size in 0.5% increments via OSD menu. The image can also be shifted, so installers do not have to reinstall or adjust the projector physically in case the image is not precisely aligned on the desired frame and space.

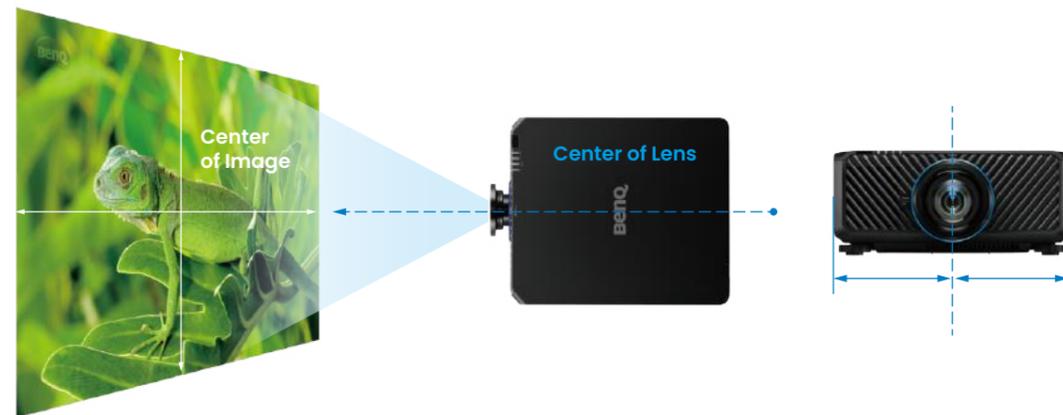
\*Available for selected models: LK936ST / LU935 / LU960UST / LU935ST / LH890UST / LW820ST



## Intuitive Central Lens Design

BlueCore laser projectors's symmetrically centered lens design allows convenient and intuitive installation without the need for special measurements. Additionally, when horizontal or vertical lens shift has been applied, a hotkey can quickly return the projector back to factory default for use in different environments and installations.

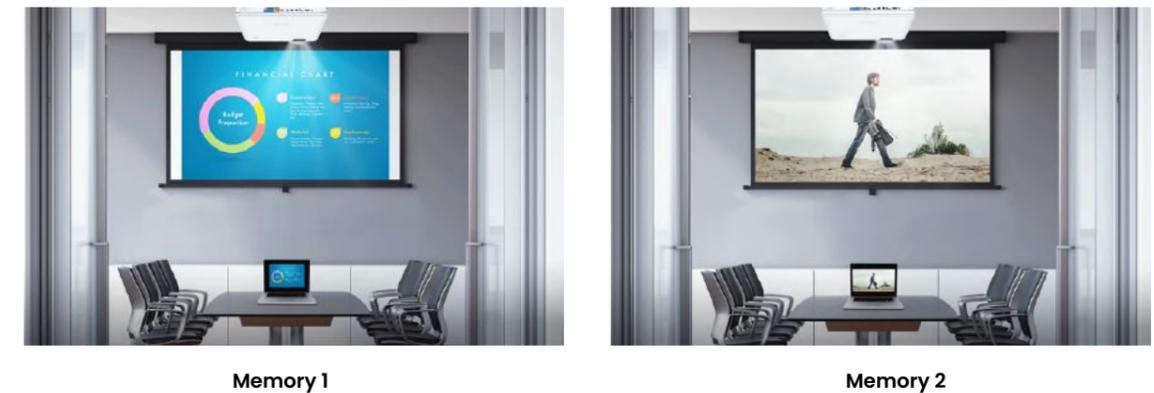
\*Available for selected models: LU9800 / LU9750 / LU9245



## Image Memory

Image memory function lets installers save five sets of image settings that can be individually recalled, reducing installation time or even eliminating the need for re-installation or adjustment when the projector is in the same environment with different image source formats or aspect ratios.

\* Not available for LU930 / LU710 / LH890UST / LW820ST



## Lens Memory

Equipped with ten customizable memory settings for lens position, zoom, and focus, BlueCore users can easily recall lens settings optimized to varying source content without tedious re-adjustments.

\*Available for selected models: LU9800 / LU9750



## Multiple Lenses For Diverse Applications

BenQ BlueCore optional lens laser projector models can accept up to eight selectable short-throw to long-throw lenses ranging from TR 0.38 to TR 8.19\*. Featuring all-glass construction for ultra-clear focus and high apertures for brighter images, these lenses are made in Japan for the highest optical quality control to eliminate chromatic aberration and color flare for utmost image quality. Maximizing installation options and projection layout, a quick one-button release makes changing lenses simple and secure.

\*For more details, please refer to the specification table.

\*\*Available for selected models: LU9800 / LU9750 / LU9245



A quick-release button makes changing lenses simple and secure.



One Button to release Lens



# EXCELLENT IMAGE PROCESSING AND FULL CONNECTIVITY

# EFFICIENT MAINTENANCE & CENTRAL MANAGEMENT

## Digital HDMI Output for Stacked and Multi-Screen Projection

To avoid the decay due to transmission distance, BenQ laser projectors deliver a perfect digital signal via HDMI output with no signal degradation for bright stacked projection and beautifully mirrored multiple displays in showrooms, professional exhibits and tradeshows.

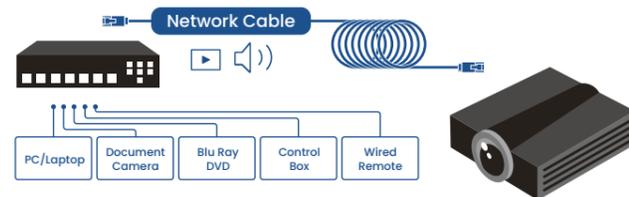
\*HDMI output supports up to Full HD 1080p resolution only  
 \*\*Available for selected models: LU9800 / LU9750 / LU960UST



## HDBaseT for Uncompressed Transmission Up to 100m

The HDBaseT connectivity combines video, audio and device control signals from multiple sources (PCs, laptops, document cameras) and Blu-rays onto a single CAT5 cable, ensuring seamless transmission up to 100 meters.

\*Available for selected models: LU9800 / LU9750 / LU9245 / LK936ST / LU935 / LU960UST / LU935ST



## Full Connectivity Across Multiple Formats

BenQ laser projectors are equipped with VGA, DVI, HDMI, DisplayPort, LAN, 3G-SDI, and 3D Sync, as well as the HDBaseT technology for high quality connections to a variety of devices and video sources.

\*3G-SDI available for selected models: LU9800 / LU9750



## Exclusive Infographic Mode

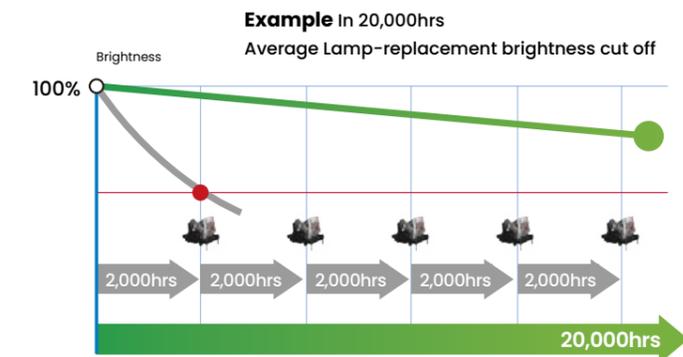
All BenQ corporate laser projectors feature an advanced Infographic Mode that's perfect for enlivening the graphics and text used in presentations. Infographic Mode offers enhanced brightness and better color gradation for eye-friendly presentations.

\*Available for selected models: LK936ST / LU935 / LU960UST / LU935ST / LU930 / LU710 / LW820ST



## Low Total Cost of Ownership

BenQ BlueCore projector's laser light source is guaranteed for 20,000 hours of maintenance-free operation, saving on lamp replacement and maintenance costs. Based on the average brightness cutoff of typical long-life lamps, BlueCore's value exceeds that of 10 lamps replacements over the life of the projector, and significantly more when taking into account downtime, labour and management costs.



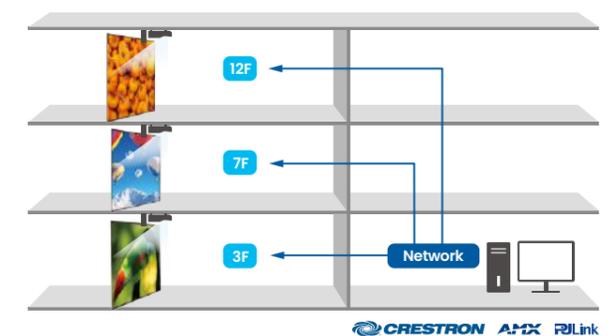
## Centralized Control with BenQ DMS Local Software

Device Management Solution is a software tool that enables remote and centralized management of multiple digital projectors by IT administrators / technicians via a local network and includes the ability to remotely monitor, control and configure projectors individually or as groups.



## Network/Web Control

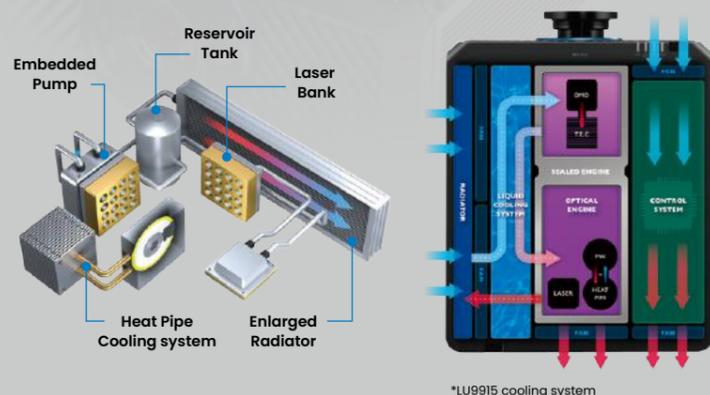
BenQ BlueCore laser projectors are widely compatible with leading projector control systems including Extron, Crestron, AMX, and PJ-Link for network control via LAN, making it simple to integrate into corporate network infrastructures. When there is no LAN infrastructure, BenQ BlueCore laser projectors also support RS-232 for reliable long-distance installations up to 15 meters.



# ENDURING RELIABILITY

## Groundbreaking Thermal Conduction via Innovative Cooling Systems

BenQ BlueCore laser projectors employ three advanced cooling systems to ensure optimal thermal conduction during operation. The circulatory liquid cooling system protects the laser light source and DMD chip even after constant operation in ambient temperatures up to 40°C (104°F), while the heat pipe cooling system cools the phosphor wheel. Additionally, the thermoelectric cooling system helps to neutralize the DMD chip's heat through cation and anion. To further enhance the effect of cooling, the segmented cooling design separates laser light source, engine and control system into three independent air ventilation sections. The innovation design enhances the accuracy and efficiency of the cooling system, effectively producing a comfortable sound with improved reliability and sustainability.

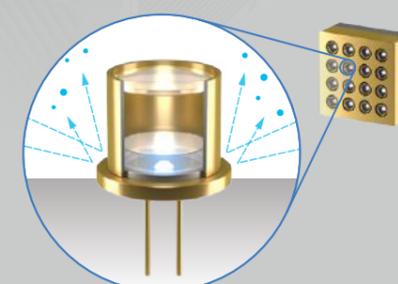


## Sealed Engine

BenQ BlueCore projectors are designed with sealed laser modules and enclosed light engines to protect the DMD chip, color wheel sensor, laser light source, and other optical components. The lock-and-key design hermetically seals the engine from dust to prolong projector lifespan.



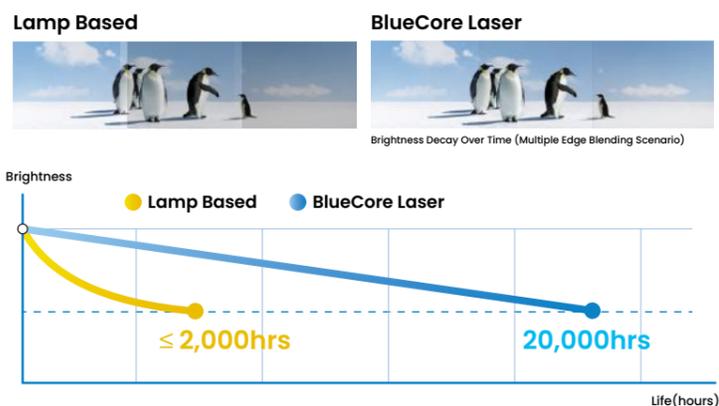
Sealed Lock-and-Key Design



Sealed Laser Light Source

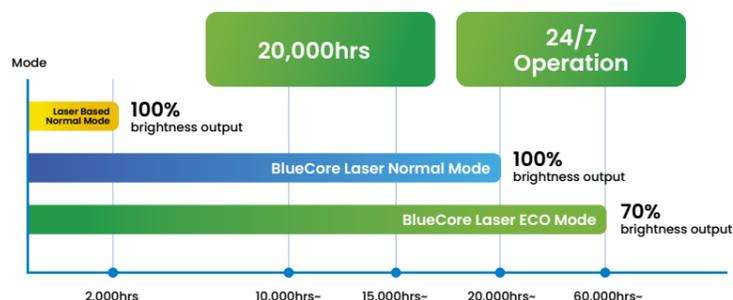
## 20,000 Hour Long-Lasting Performance

BenQ BlueCore laser light source are guaranteed for 20,000 hours of superior image quality and performance. The laser light source resists color decay over time, making BenQ laser projectors ideal for multiple blending projections without concern for adjacent projectors generating different levels of brightness after a period of operation.



## Dependable 24/7 Nonstop Operation

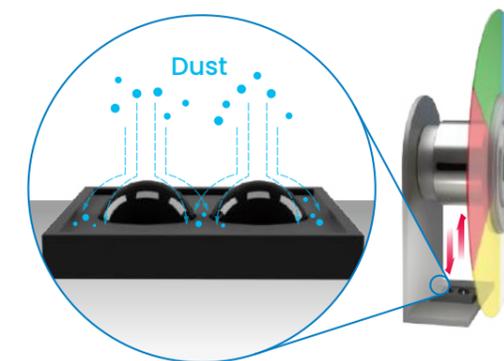
BenQ laser projectors are designed for continuous 24/7 operation, suitable for public display applications in museums and exhibitions. Operators can choose from three different light source modes to optimize energy use and extend the projector's life up to 60,000 hours in Eco Mode.



\*Available for selected models: LU950 / LU951ST / LK952 / LK953ST / LU9245 / LU9715 / LU9915

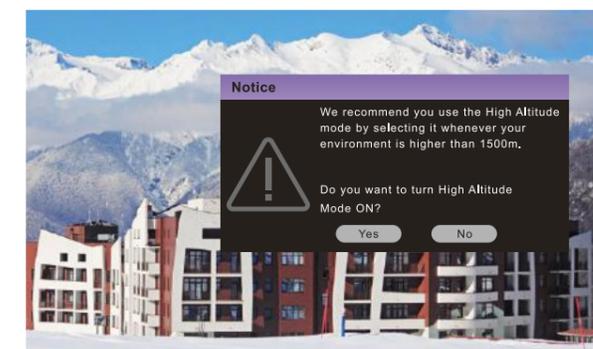
## Anti-Dust Accumulation Sensor to Resist Dust Buildup

Incorporating a color wheel sensor with ingenious anti-dust buildup features, BenQ BlueCore laser projectors prolong optimal performance by repelling dust that can accumulate on traditional sensors to block the IR signal and cause flickering, abnormal colors, or even shutdown.



## High Altitude Mode for Elevated Environments

Equipped with an integrated air pressure sensor, BlueCore laser projectors' intelligent High Altitude Mode automatically alerts users to enable efficient cooling and properly maintain operating temperatures in high altitude environments with thinner atmospheres.





## OPTIONAL LENS

Model Name	Model Name	LU9800
Display	Projection System	DLP
	DMD Type	0.67"
	Native Resolution	WUXGA (1920x1200)
	Brightness	10,000
	Contrast Ratio*	3,000,000:1
	Display Color	30-bit (1.07 billion colors)
	Aspect Ratio	16:10
	Light Source	Laser
Light Source Life*	Normal 20,000 hrs ; ECO 38,000 hrs ; Dimming 70,000 hrs	
Optical	Throw Ratio	(Optional Lens) Ultra Short Throw (LSIST4): 0.38 Short throw (LSIST3A): 0.77-1.1 Wide Zoom 2 (LSIST2A): 1.1-1.3 Wide Zoom 1 (LSIST1A): 1.25-1.6 Standard (LSISDA): 1.54-1.93 Semi long (LSILTO): 1.93-2.9 Semi long (LSILTI): 2.22-3.67 Long zoom 1 (LSILT2): 3.58-5.38 Long Zoom 2 (LSILT3): 5.31-8.26
	Zoom Ratio	(Optional Lens) Ultra Short Throw (LSIST4): Fixed Short throw (LSIST3A): 1.42x Wide Zoom 2 (LSIST2A): 1.18x Wide Zoom 1 (LSIST1A): 1.28x Standard (LSISDA): 1.25x Semi long (LSILTO): 1.5x Semi long (LSILTI): 1.65x Long zoom 1 (LSILT2): 1.5x Long Zoom 2 (LSILT3): 1.55x
	Lens Shift	Ultra Short Throw (LSIST4): V: (-3% - +7%) H: (-5% - 5%) Short throw (LSIST3A): -15 - +55% Vertical; -5% - +5% Horizontal Wide Zoom 2 (LSIST2A): -15 - +55% Vertical; -5% - +5% Horizontal Wide Zoom 1 (LSIST1A): -15 - +55% Vertical; -5% - +5% Horizontal Standard (LSISDA): -15 - +55% Vertical; -5% - +5% Horizontal Semi long (LSILTO): -15 - +55% Vertical; -5% - +5% Horizontal Semi long (LSILTI): 0 - +50% Vertical; -10% - +10% Horizontal Long zoom 1 (LSILT2): 0 - +50% Vertical; -10% - +10% Horizontal Long Zoom 2 (LSILT3): 0 - +50% Vertical; -10% - +10% Horizontal
	Keystone Correction	2D, Vertical ± 30 degrees; Horizontal ± 30 degrees
	Projection Offset**	0%
	Projection Size (Diagonal)	50"-300"
	Built-in Speaker	No Speaker
	Security	Security Bar,Kingston Lock
	Feature	Laser, 9 Optional lens, Central Lens, Panasonic Lens Adapter, HDBaseT, Blending & Geometry
	Connectivity	i/O Port
Resolution Support		VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB=Reduced Blanking
Vertical Scan Rate		23-120Hz
HDTV Compatibility		1080i ,1080p ,480i ,480p ,576i ,576p ,720p
Video Compatibility		NTSC;PAL;SECAM
Power Consumptions(Typical)		893W
Standby Power consumption		<0.5W
Power Supply		AC 100 to 240 V, 50/60 Hz
Product Dimensions (WxHxD)		500 x 211 x 587.3
Product Weight		26.8
Operation Condition	Noise Level(Normal/Eco)	42/38
	Operating Temperature	0-40°C
Accessories	Accessories (Standard)	Remote Control w/ Battery (RCA025) Power Cord xl (1.8M) (by region) Warranty Card (by region) User Manual CD x1 Installation Guide xl Lens Cover xl
	Accessories (Optional)	N/A
OSD	On Screen Display Language	12L

\*All related Optical Value is measure by Standard Len \* The Contrast is measure by Full On Full Off standard.

## 4K Fixed Lens

Model Name	Model Name	LK936ST	LK935
Display	Projection System	DLP	DLP
	DMD Type	0.47" ECD	-
	Native Resolution	4K UHD (3840x2160)	4K UHD (3840x2160)
	Brightness	5,100	5500
	Contrast Ratio*	3,000,000:1	3,000,000:1
	Display Color	30-bit (1.07 billion colors)	30-bit (1.07 billion colors)
	Aspect Ratio	16:9	16:9
	Light Source	Laser	Laser
Light Source Life*	Normal 20,000 hrs	a. Normal 20000 hrs	
Optical	Throw Ratio	0.81-0.89	1.36-2.18
	Zoom Ratio	1.1x	1.6x
	Lens Shift	Vertical -60%- +60% Horizontal -23%- +23%	Vertical -60%- +60% Horizontal -23%- +23%
	Keystone Correction	3D ,Vertical ± 40 degrees ,Horizontal ± 40 degrees , Rotation ± 40 degrees	3D ,Vertical ± 30 degrees ,Horizontal ± 30 degrees , Rotation ± 30 degrees
Audio	Projection Offset**	0%	0%
	Projection Size (Diagonal)	60"-200"	-
Special Feature	Built-in Speaker	(x1),10W	(x1),10W
	Security	Security Bar,Kingston Lock	-
Connectivity	Feature	4K UHD with 0.81-0.89 Short Throw Lens; HDR; Resolution WQXGA (16:10) Supported; Digital Correction (2D Keystone, Rotate, Corner Fit, Digital Shrink and Shift); S/PDIF Port (5.1-channel surround sound output)	-
	i/O Port	HDMI In (x2) HDMI-1 (2.0b/HDCP2.2) HDMI-2 (2.0b/HDCP2.2) Display Port(x1) LAN (RJ45) (x1) HDBaseT (RJ45) (x1) Control/Video/Audio 3D Sync In (x1),VESA 3D Sync Out (x1),VESA USB Type A (x1) USB Type A-1 (2.0/Power Supply2.0A) USB Type A-1 (DB-9pin) (x1) RS232 In (DB-9pin) (x1) Wired Remote In (3.5mm Mini Jack) (x1) Wired Remote Out (3.5mm Mini Jack) (x1) DC 12V Trigger (3.5mm Jack) (x1)	HDMI in(x2),HDMI-1 (2.0b/HDCP2.2) HDMI-2 (2.0b/HDCP2.2) Display Port (x1) LAN (RJ45) (x1) HDBaseT (RJ45) (x1) Video/Audio 3D Sync in (x1),VESA 3D Sync out (x1),VESA USB Type A (x1) USB Type A-1 (2.0/Power Supply2.0A) RS232 in (DB-9pin) (x1) Wired Remote in (3.5mm Mini Jack) (x1) Wired Remote out (3.5mm Mini Jack) (x1) DC 12V Trigger (3.5mm Jack) (x1)
	Resolution Support	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA (640 x 480) to 4K UHD (3840 x 2160)
	Vertical Scan Rate	23-240Hz	23-240Hz
	HDTV Compatibility	1080i ,1080p ,2160p ,480i ,480p ,576i ,576p ,720p	-
	Video Compatibility	N/A	-
	Power Consumptions(Typical)	440W	440W
	Standby Power consumption	<0.5W	<0.5W
	Power Supply	AC 100 to 240 V, 50/60 Hz	AC 100 to 240 V, 50/60 Hz
	Product Dimensions (WxHxD)	416x166x351	416x166x351
Product Weight	7	7.0	
Operation Condition	Noise Level(Normal/Eco)	40/33	40/33
	Operating Temperature	0-40°C	0-40°C
Accessories	Accessories (Standard)	Remote Control w/ Battery (RCA011) Power Cord xl (1.8M) (by region) Warranty Card (by region) Installation Guide xl	Remote Control w/ Battery (RCA011) Power Cord xl (1.8M) (by region) Warranty Card (by region) Installation Guide xl
	Accessories (Optional)	3D Glasses (DGD5) Ceiling Mount (CMG3)	3D Glasses (DGD5) Universal Ceiling Mount (CM00G3)
OSD	On Screen Display Language	30L	-

\*All related Optical Value is measure by Standard Len \* The Contrast is measure by Full On Full Off standard.



## WUXGA Fixed Lens

Model Name	Model Name	LU935	LU930
<b>Display</b>	Projection System	DLP	DLP
	DMD Type	0.48" ECD	0.48"
	Native Resolution	WUXGA (1920x1200)	WUXGA (1920x1200)
	Brightness	6,000	5,000
	Contrast Ratio*	3,000,000:1	3,000,000:1
	Display Color	30-bit (1.07 billion colors)	30 Bits (1.07 billion colors)
	Aspect Ratio	16:10	16:10
	Light Source	Laser	Laser
Light Source Life*	20,000 hrs	20,000 hrs	
<b>Optical</b>	Throw Ratio	1.36-2.18	1.36 - 2.18
	Zoom Ratio	1.6x	1.6x
	Lens Shift	Vertical -60%~ +60% Horizontal -23%~ +23%	Vertical -60%~ +60% Horizontal -23%~ +23%
	Keystone Correction	2D, Vertical ± 30 degrees; Horizontal ± 30 degrees	2D, Vertical ± 30 degrees; Horizontal ± 30 degrees
	Projection Offset**	0%	0%
	Projection Size (Diagonal)	60"-200"	60"-200"
<b>Audio</b>	Built-in Speaker	(x2);10W	(x2);10W
	Security	Security Bar,Kingston Lock	Security Bar,Kingston Lock
<b>Special Feature</b>	Security	Security Bar,Kingston Lock	Security Bar,Kingston Lock
	Feature	HDBaseT ; White Balance Adjustment	Laser Light Source 5,000 ANSI Lumens High Brightness Big Zoom & Lens Shift 360-degree Projection LumiExpert FW Upgrade via LAN
<b>Connectivity</b>	I/O Port	PC In (D-sub 15pin) (x1),PC In-1 Monitor Out (D-sub 15pin) (x1) HDMI In (x2),HDMI-1 (2.0a/HDCP2.2) HDMI-2 (2.0a/HDCP2.2) LAN (RJ45) (x1) HDBaseT (RJ45) (x1) Control/Video/Audio 3D Sync In (x1) 3D Sync Out (x1) USB Type A (x1) USB Type A-1 (2.0/Power Supply1.5A) RS232 In (DB-9pin) (x1) Wired Remote In (3.5mm Mini Jack) (x1) DC 12V Trigger (3.5mm Jack) (x1)	PC In (D-sub 15pin) (x1),PC In-1 Monitor Out (D-sub 15pin) (x1) Composite Video In (RCA) (x1) Component Video In (3RCA) (x1) HDMI In (x2) HDMI-1 (1.4a/HDCP1.4) HDMI-2 (1.4a/HDCP1.4) LAN (RJ45) (x1) USB Type A (x1) USB Type A-1 (2.0/Power Supply1.5A/Service) RS232 In (DB-9pin) (x1) DC 12V Trigger (3.5mm Jack) (x1)
	Resolution Support	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA(640 x 480) to WUXGA_RB(1920 x 1200) *RB=Reduced Blanking
<b>Compatibility</b>	Vertical Scan Rate	23-120Hz	23-120Hz
	HDTV Compatibility	1080i,1080p,480i,480p,576i,576p,720p	1080i,1080p,480,480p,576i,576p,720p
	Video Compatibility	NTSC;PAL;SECAM	NTSC;PAL;SECAM
	Power Consumptions(Typical)	440W	415W
<b>Power</b>	Standby Power consumption	<0.5W	<0.5W
	Power Supply	AC 100 to 240 V, 50/60 Hz	AC 100 to 240 V, 50/60 Hz
	Product Dimensions (WxHxD)	416x166 x 351	416 x166 x351
<b>Dimension and Weight</b>	Product Weight	7	6.3
	Noise Level(Normal/Eco)	32/39	37/30 dB
<b>Operation Condition</b>	Operating Temperature	0-40°C	0-40°C
	Accessories (Standard)	Remote Control w/ Battery (RCA011) Power Cord xl (1.8M) (by region) Warranty Card (by region) Installation Guide xl	Remote Control w/ Battery (RCE016) Power Cord xl (1.8M) (by region) HDMI Cable xl Warranty Card (by region) Quick Start Guide x1
<b>Accessories</b>	Accessories (Optional)	3D Glasses (DGD5) Ceiling Mount (CMG3)	3D Glasses (DGD5) Ceiling Mount (CMG3) Anti-Dust Filter
	On Screen Display Language	30L	30L

\*All related Optical Value is measure by Standard Len \* The Contrast is measure by Full On Full Off standard.

## WUXGA Fixed Lens

Model Name	Model Name	LU960ST2	LU960UST	LU935ST	
<b>Display</b>	Projection System	DLP	DLP	DLP	
	DMD Type	-	0.48"	0.48" ECD	
	Native Resolution	WUXGA (1920x1200)	WUXGA (1920x1200)	WUXGA (1920x1200)	
	Brightness	5200	5,200	5,500	
	Contrast Ratio*	3,000,000:1	3,000,000:1	3,000,000:1	
	Display Color	30-bit (1.07 billion colors)	30-bit (1.07 billion colors)	30-bit (1.07 billion colors)	
	Aspect Ratio	16:10	16:10	16:10	
	Light Source	Laser	Laser	Laser	
Light Source Life*	b. ECO 38000 hrs;d. Dimming 70000 hrs; a. Normal 20000 hrs	Normal 20,000 hrs ; ECO 38,000 hrs ; Dimming 75,000 hrs	Normal 20,000 hrs		
<b>Optical</b>	Throw Ratio	0.5	0.25	0.81 - 0.89	
	Zoom Ratio	Fixed	Fixed	11x	
	Lens Shift	Vertical -55%~ +55% Horizontal -23%~ +23%	N/A	Vertical -60%~ +60% Horizontal -23%~ +23%	
	Keystone Correction	2D, Vertical ± 30 degrees; Horizontal ± 30 degrees	2D, Vertical ± 30 degrees; Horizontal ± 30 degrees;N/A	2D, Vertical ± 30 degrees; Horizontal ± 30 degrees	
	Projection Offset**	0%	122%	0%	
	Projection Size (Diagonal)	-	100"-150"	60"-200"	
<b>Audio</b>	Built-in Speaker	(x1);10W	(x1);10W	(x2);10W	
	Security	-	Security Bar,Kingston Lock	Security Bar,Kingston Lock	
<b>Special Feature</b>	Security	-	Security Bar,Kingston Lock	Security Bar,Kingston Lock	
	Feature	-	Laser ; TR 0.25, Digital V Lens Shift, <0.5W ; HDMI 2.0 ; HDMI Out; HDBaseT ; 2D Keystone; Corner Fit; Image Resizing, Remote ID Setting; Portrait	Laser ; 11X ; TR 0.81-0.89 ; L/S V+-60%, H+-23% ; HDBaseT ; LAN; 4K Compatible ; 3D syn In/Out ; Remote ID Setting ; Black	
<b>Connectivity</b>	I/O Port	PC In (D-sub 15pin) (x1),PC In-1 Monitor out (D-sub 15pin) (x1) HDMI in (x2),HDMI-1 (2.0a/HDCP2.2) HDMI-2 (2.0a/HDCP2.2) LAN (RJ45)(x1) Monitor out (HDMI) (x1) Display Port (x1) HDBaseT (RJ45) (x1),Control/Video/Audio 3D Sync in (x1) 3D Sync out (x1) USB Type A (x1) USB Type A-1 (2.0/Power Supply1.5A) USB Type Mini B(x1) USB Type Mini B-1(service) RS232 In (DB-9pin) (x1) Wired Remote in (3.5mm Mini Jack) (x1) DC 12V Trigger (3.5mm Jack) (x1)	PC In (D-sub 15pin) (x1),PC In-1 Monitor Out (D-sub 15pin) (x1) HDMI in (x2),HDMI-1 (2.0a/HDCP2.2) HDMI-2 (2.0a/HDCP2.2) LAN (RJ45)(x1) Monitor out (HDMI) (x1) Display Port (x1) HDBaseT (RJ45) (x1),Control/Video/Audio 3D Sync in (x1) 3D Sync out (x1) USB Type A (x1) USB Type A-1 (2.0/Power Supply1.5A) USB Type Mini B(x1) USB Type Mini B-1(service) RS232 In (DB-9pin) (x1) Wired Remote in (3.5mm Mini Jack) (x1) DC 12V Trigger (3.5mm Jack) (x1)	PC In (D-sub 15pin) (x1),PC In-1 Monitor Out (D-sub 15pin) (x1) HDMI in (x2) HDMI-1 (2.0a/HDCP2.2) HDMI-2 (2.0a/HDCP2.2) Monitor Out (HDMI) (x1) Display Port (x1) LAN (RJ45) (x1) HDBaseT (RJ45) (x1),Control/Video/Audio 3D Sync in (x1) 3D Sync Out (x1) USB Type A (x1) USB Type A-1 (2.0/Power Supply1.5A) USB Type Mini B (x1) USB Type Mini B-1(service) RS232 In (DB-9pin) (x1) Wired Remote In (3.5mm Mini Jack) (x1) DC 12V Trigger (3.5mm Jack) (x1)	PC In (D-sub 15pin) (x1),PC In-1 Monitor Out (D-sub 15pin) (x1) HDMI In (x2) HDMI-1 (2.0a/HDCP2.2) HDMI-2 (2.0a/HDCP2.2) LAN (RJ45) (x1) HDBaseT (RJ45) (x1) Control/Video/Audio 3D Sync in (x1) 3D Sync Out (x1) USB Type A (x1) USB Type A-1 (2.0/Power Supply1.5A) RS232 In (DB-9pin) (x1) Wired Remote In (3.5mm Mini Jack) (x1) DC 12V Trigger (3.5mm Jack) (x1)
	Resolution Support	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA (640 x 480) to 4K UHD (3840 x 2160)
<b>Compatibility</b>	Vertical Scan Rate	23-120Hz	23-120Hz	23-120Hz	
	HDTV Compatibility	-	1080i,1080p,480i,480p,576i,576p,720p	1080i,1080p,480i,480p,576i,576p,720p	
	Video Compatibility	-	NTSC;PAL;SECAM	NTSC;PAL;SECAM	
	Power Consumptions(Typical)	450W	450W	440W	
<b>Power</b>	Standby Power consumption	<0.5W	<0.5W	<0.5W	
	Power Supply	AC 100 to 240 V, 50/60 Hz	AC 100 to 240 V, 50/60 Hz	AC 100 to 240 V, 50/60 Hz	
	Product Dimensions (WxHxD)	479.6 x 182.8 x 402	480 x473 x157.4	416x166 x 351	
<b>Dimension and Weight</b>	Product Weight	12	12	7	
	Noise Level(Normal/Eco)	-	N/A	32/39	
<b>Operation Condition</b>	Operating Temperature	0-40°C	0-40°C	0-40°C	
	Accessories (Standard)	Remote Control w/ Battery (RCA024) Power Cord xl (by region) (1.8M) Warranty Card (by region) Installation Guide xl (8L)	Remote Control w/ Battery (RCA024) Power Cord xl (1.8M) (by region) Warranty Card (by region) Installation Guide xl	Remote Control w/ Battery (RCA011) Power Cord xl (1.8M) (by region) Warranty Card (by region) Installation Guide xl	
<b>Accessories</b>	Accessories (Optional)	-	3D Glasses (DGD5) Ceiling Mount (CMG3)	3D Glasses (DGD5) Ceiling Mount (CMG3)	
	On Screen Display Language	-	30L	30L	

\*All related Optical Value is measure by Standard Len \* The Contrast is measure by Full On Full Off standard.



## Full HD & WXGA Fixed Lens

Model Name	Model Name	LH8550	LH8550UST
Display	Projection System	DLP	DLP
	DMD Type	-	-
	Native Resolution	1080P (1920x1080)	1080P (1920x1080)
	Brightness	4000	3500
	Contrast Ratio*	3,000,000:1	3,000,000:1
	Display Color	30-bit (1.07 billion colors)	30-bit (1.07 billion colors)
	Aspect Ratio	16:9	16:9
	Light Source	Laser	Laser
Light Source Life*	b. ECO 20000 hrs;c. SmartEco 20000 hrs;a. Normal 20000 hrs	c. Dynamic Dimming 60000 hrs;b. ECO 38000 hrs;a. Normal 20000 hrs	
Optical	Throw Ratio	1.15 - 1.5	0.33
	Zoom Ratio	1.3x	Fixed
	Lens Shift	-	-
	Keystone Correction	2D, (Auto) Vertical ± 30 degrees; Horizontal ± 30 degrees	2D, Vertical ± 15 degrees; Horizontal ± 15 degrees
	Projection Offset**	105.5%	124.6%
Audio	Built-in Speaker	(x1);10W	(x2);10W
Connectivity	I/O Port	HDMI in (x2) HDMI-1 (2.0b/HDCP2.2);HDMI-2 (2.0b/HDCP2.2) USB Type A-1 (2.0/Power Supply1.5A/Service);(x2) USB Type A-2 (2.0/Power Supply1.0A/Wireless Dongle) USB Type C (x1);Display Port with PD out 5V/1A RS232 in (DB-9pin) (x1)	PC in (D-sub 15pin) (x1);PC in-1 (shared with component video) Monitor out (D-sub 15pin) (x1) HDMI in (x2);HDMI-1 (2.0b/HDCP2.2);HDMI-2 (2.0b/HDCP2.2) LAN (RJ45) (x1) USB Type A (x1);USB Type A-1 (2.0/Power Supply1.5A) USB Type Mini B (x1);USB Type Mini B-1(service) USB Type Mini B-1(PointWrite) RS232 in (DB-9pin) (x1)
Compatibility	Resolution Support	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA (640 x 480) to 4K UHD (3840 x 2160)
	Vertical Scan Rate	23-120Hz	23-120Hz
Power	Power Consumptions(Typical)	200W @100VAC; 191W @220VAC	170W
	Standby Power consumption	<0.5W	<0.5W
	Power Supply	AC 100 to 240 V, 50/60 Hz	AC 100 to 240 V, 50/60 Hz
Dimension and Weight	Product Dimensions (WxHxD)	303.5 (W) x 112.4 (H) x 224.7 (L) mm	317.2 x 376.4 x 208
	Product Weight	2.9 Kg +/- 100g	6.5
Operation Condition	Noise Level(Normal/Eco)	34/28	34/32
	Operating Temperature	0-40°C	0-40°C
Accessories	Accessories (Standard)	Remote Control w/ Battery (RCX016) Power Cord xl (1.8M) (by region) Warranty Card (by region)	Remote Control w/ Battery (RCS011) Power Cord xl (3.0M)(by region) Warranty Card (by region)
	Accessories (Optional)	3D Glasses (DGD5) Universal Ceiling Mount (CM00G3)	3D Glasses (DGD5)

\*All related Optical Value is measure by Standard Len \* The Contrast is measure by Full On Full Off standard.

## Full HD & WXGA Fixed Lens

Model Name	Model Name	LW8550	LW8550UST
Display	Projection System	DLP	DLP
	DMD Type	-	-
	Native Resolution	WXGA (1280x800)	WXGA (1280x800)
	Brightness	4000	3500
	Contrast Ratio*	3,000,000:1	3,000,000:1
	Display Color	30-bit (1.07 billion colors)	30-bit (1.07 billion colors)
	Aspect Ratio	16:10	16:10
	Light Source	Laser	Laser
Light Source Life*	b. ECO 20000 hrs;c. SmartEco 20000 hrs;a. Normal 20000 hrs	c. Dynamic Dimming 60000 hrs;b. ECO 38000 hrs;a. Normal 20000 hrs	
Optical	Throw Ratio	1.21-1.57	0.35
	Zoom Ratio	1.3x	Fixed
	Lens Shift	-	Vertical: ±2%
	Keystone Correction	2D, (Auto) Vertical ± 30 degrees; Horizontal ± 30 degrees	2D, Vertical ± 15 degrees; Horizontal ± 15 degrees
	Projection Offset**	102.5%	121%
Audio	Built-in Speaker	(x1);10W	(x2);10W
Connectivity	I/O Port	HDMI in (x2) HDMI-1 (2.0b/HDCP2.2) HDMI-2 (2.0b/HDCP2.2) USB Type A-1 (2.0/Power Supply1.5A/Service);(x2) USB Type A-2 (2.0/Power Supply1.0A/Wireless Dongle) USB Type C (x1) Display Port with PD out 5V/1A RS232 in (DB-9pin) (x1)	PC in (D-sub 15pin) (x1);PC in-1 (shared with component video) Monitor out (D-sub 15pin) (x1) HDMI in (x2);HDMI-1 (2.0b/HDCP2.2) HDMI-2 (2.0b/HDCP2.2) LAN (RJ45) (x1) USB Type A (x1) USB Type A-1 (2.0/Power Supply1.5A) USB Type Mini B (x1) USB Type Mini B-1(service) USB Type Mini B-1(PointWrite) RS232 in (DB-9pin) (x1)
Compatibility	Resolution Support	VGA (640 x 480) to 4K UHD (3840 x 2160)	VGA (640 x 480) to 4K UHD (3840 x 2160)
	Vertical Scan Rate	23-120Hz	23-120Hz
Power	Power Consumptions(Typical)	200W @100VAC; 191W @220VAC	170W
	Standby Power consumption	<0.5W	<0.5W
	Power Supply	AC 100 to 240 V, 50/60 Hz	AC 100 to 240 V, 50/60 Hz
Dimension and Weight	Product Dimensions (WxHxD)	303.5 (W) x 112.4 (H) x 224.7 (L) mm	317.2 x 376.4 x 208
	Product Weight	2.9 Kg +/- 100g	6.5
Operation Condition	Noise Level(Normal/Eco)	34/28	34/32
	Operating Temperature	0-40°C	0-40°C
Accessories	Accessories (Standard)	Remote Control w/ Battery (RCX016) Power Cord xl (1.8M) (by region) Warranty Card (by region)	Remote Control w/ Battery (RCS011) Power Cord xl (3.0M) (by region) Warranty Card (by region)
	Accessories (Optional)	3D Glasses (DGD5) Universal Ceiling Mount (CM00G3)	3D Glasses (DGD5)

\*All related Optical Value is measure by Standard Len \* The Contrast is measure by Full On Full Off standard.