

LGE Internal Use Only

LG ProBeam BU50N

for Business



2020 HIGHLIGHT | LG ProBeam BU50N

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High Resolution

- 4K UHD resolution
- 5,000 ANSI Lumen
- HDR10 with dynamic tone mapping (Auto)
- DLP-based excellent contrast range



Cost Saving

- 20,000 Life Hours
- Eco-friendly Laser Diode



Ease of Use

- Compact Size
- Lens shift / Zoom x 1.6 / 12point Warping



Smart Connectivity

- WiFi / Wireless Mirroring (Screen Share)
- Bluetooth Sound out
- webOS 4.5 O/S
- Internet Browser for websurfing / Youtube
- * YouTube is accessible through an Internet browser.



PRODUCT BRIEF

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BU50N

Light Source	Laser (up to 20,000 hrs)
Resolution	4K UHD (3840 x 2160) ¹⁾
Brightness	5000 ANSI
Screen Size	40"~300"
Feature	Advanced Edge Adjustment (12point Warping)
	Lens shift H ±20%, V ±50%, Zoom x1.6
	5W+5W Speaker
	Internet Browser (webOS 4.5 base)
	Wireless Connectivity (Android)
	Bluetooth Sound out (Sync. Controllable)
	Office File Viewer
	HDBaseT
	DICOM
	Size / Weight

1) 4K UHD resolution with 8.3 million discrete pixels projected by XPR (Expanded Pixel Resolution) video processing.

LG ProBeam BU50N

Key Sales Points



High resolution that enhances concentration in presentations and meetings

Real 4K (3,840 × 2,160) | HDR10 with dynamic tone mapping (auto) | DLP-based excellent contrast range

Real 4K resolution and HDR10 tone mapping bring your content to life, while the outstanding DLP-based contrast ratio allows you to utilize high-quality images and video with no issues, making your business immersive and professional.



A clearer and brighter screen, even in bright spaces

5,000 ANSI Lumens

With the superior brightness of 5,000 ANSI Lumens, LG BU50N delivers striking images even in bright spaces, without compromising picture quality. It also provides accurate picture quality regardless of environment, maximizing work efficiency.



Wireless connectivity that enables efficient communication

Wi-Fi Screen Share (Android) | Bluetooth Sound out | Internet Browser (webOS 4.5 base) | Office File viewer | Media Player

Wi-Fi support allows you to easily link to smartphones and Bluetooth enables convenient wireless connection with sound devices. Moreover, based on webOS 4.5, you can enjoy Internet contents such as Google and YouTube to make your work smarter and more efficient.

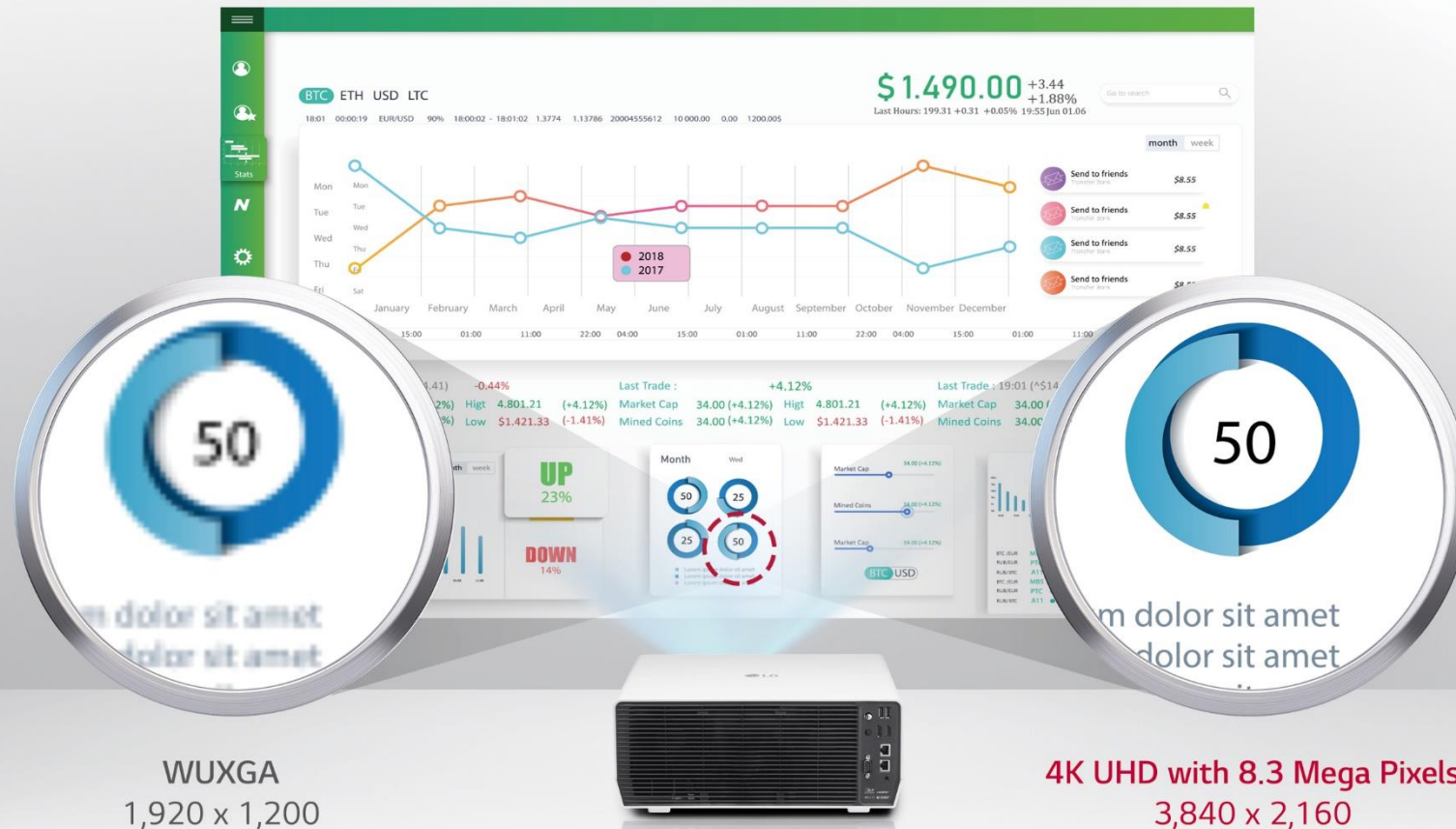
* YouTube is accessible through an Internet browser.

High-resolution picture quality enhances business professionalism

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REAL 4K (3,840 × 2,160)

The BU50N brings a truly immersive experience into your business with an incredible 8.3 million pixels (3,840 × 2,160) utilizing XPR technology based on Texas Instruments' 4K/UHD DLP technology. The panel can be quickly adjusted in four directions to obtain an effective resolution of 3,840 × 2,160 (8.3M pixels).



TECHNICAL TIP



What is 4K UHD?

4K UHD is an image quality standard with 16:9 aspect ratio, 3,840 × 2,160 pixel resolution, and 8,294,400 pixels.



Vivid image with full details

Clear picture quality, even in bright spaces

5,000 ANSI LUMENS

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5,000 ANSI Lumens provides brightness that guarantees bright and clear images regardless of external lighting in large conference rooms. Through accurate and soft images, viewers can experience a vivid environment.



TECHNICAL TIP

What is 5,000 ANSI Lumens?

1 ANSI =  Brightness of 1 Candle

1,000 - 2,000 ANSI Lumens

: weak lighting

2,000 - 3,000 ANSI Lumens

: normal small-scale indoor

3,000 - 5,000 ANSI Lumens

: can be used without blackout curtains

5,000 ANSI Lumens or more

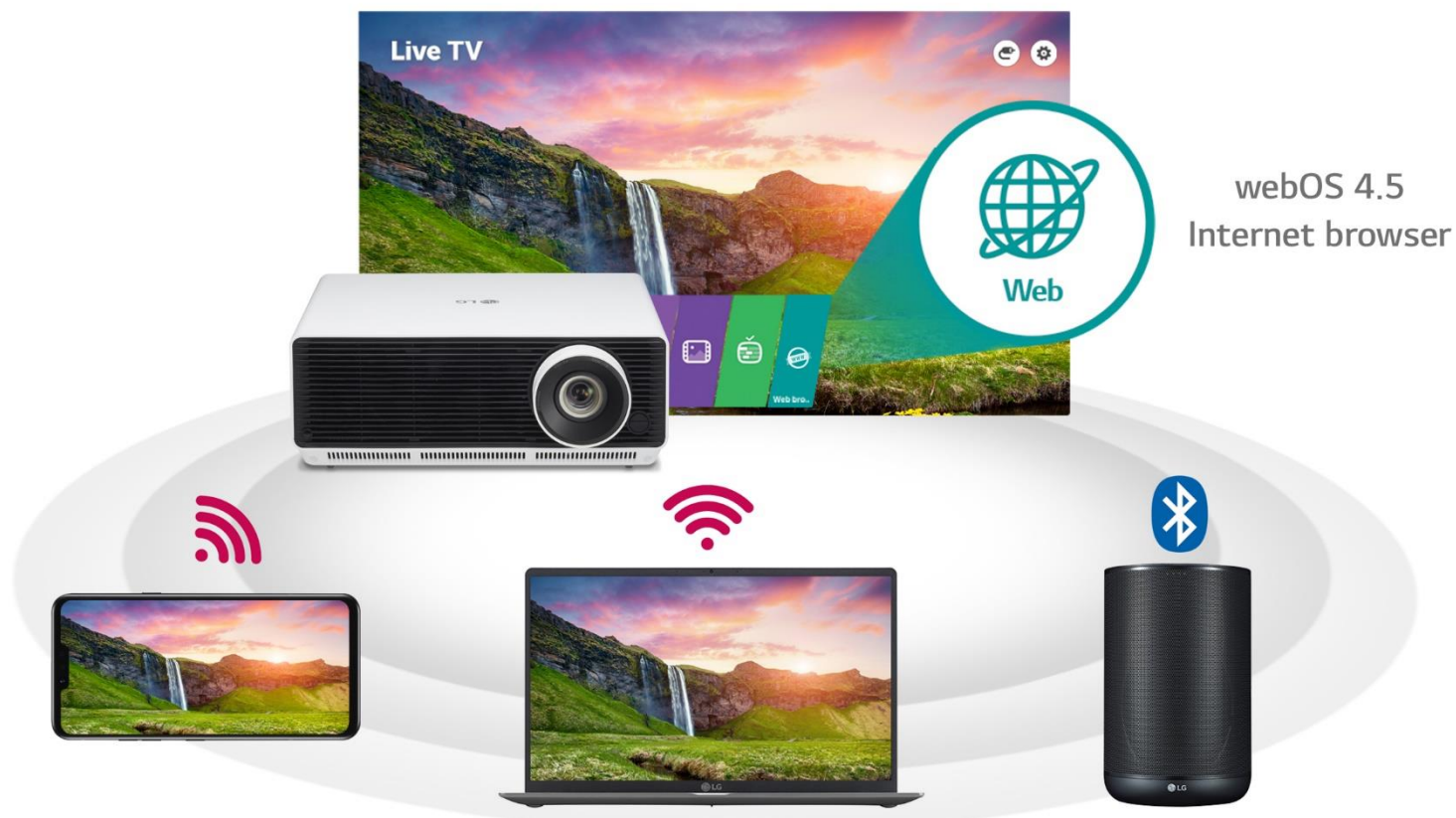
: can be used regardless of external lighting

Wireless performance that enables smart communication

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SMART CONNECTION

The device provides convenient wireless functionality for collaborative meetings such a screen share through wireless mirroring and Bluetooth sound out. You can also browse the Internet through webOS 4.5.



TECHNICAL TIP



What is webOS 4.5?

A Linux-based mobile operating system (OS) that allows easy and simple viewing of video streaming services such as YouTube

* YouTube is accessible through an Internet browser.

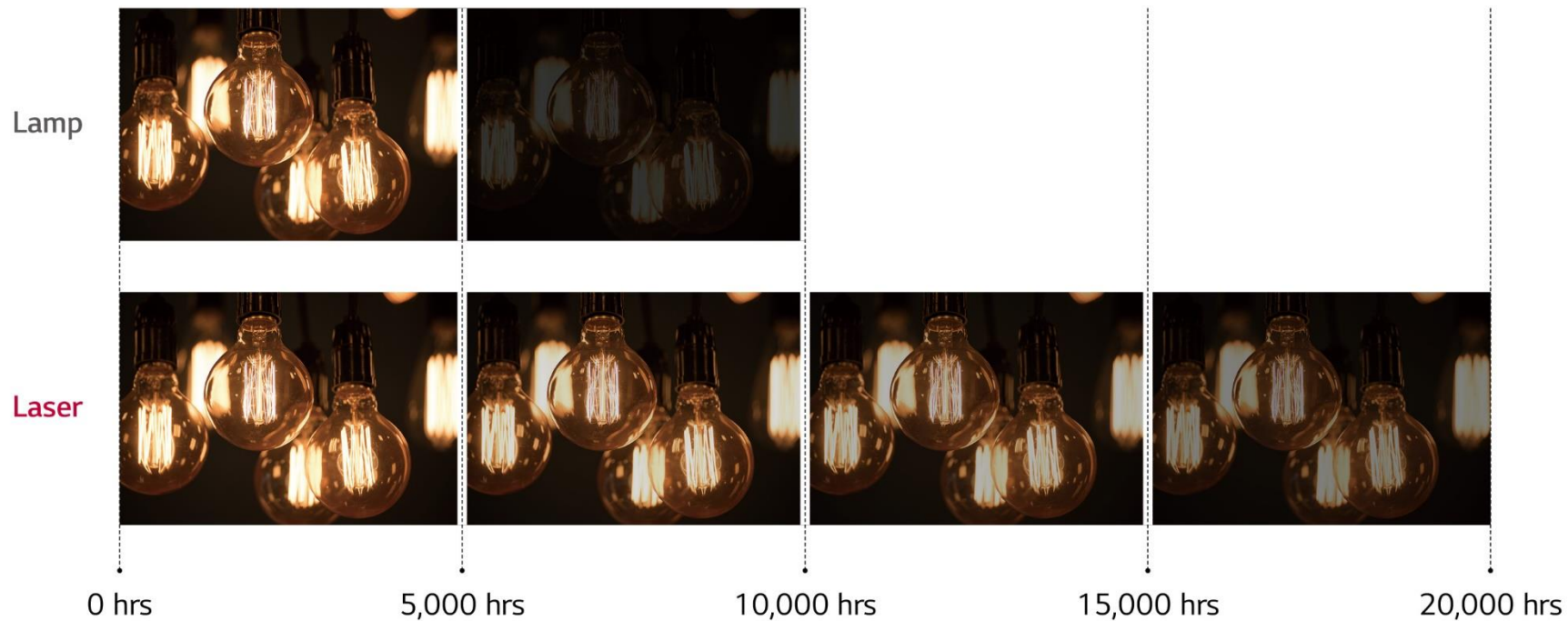
The Best Choice to Reduce Costs

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20,000 LIFE HOURS

The BU50N is a laser projector that implements 4K ultrahigh quality. The powerful laser diode displays brighter images and lasts up to 20,000 hours.

If you play videos on this projector 8 hours a day, then the laser diode would last for 7 years. It keeps initial brightness over a long time maintaining reduction rate 99%, so you don't need to change the bulb with expensive replacement costs over time.



TECHNICAL TIP

20,000 Life Hours?

4K UHD is an image quality standard with 16:9 aspect ratio, 3840 × 2160 pixel resolution, and 8,294,400 pixels.

 **20,000**
Life Hours

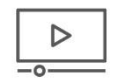
=



8 hour a day
7 years



4 hour a day
14 years



2 hour a day
28 years

Optimize the screen for your conference room

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12 POINT WARPING | LENS SHIFT | ZOOM x1.6

BU50N provides 12-Point Warping, Lens Shift, and Zoom x1.6 functionality to enable flexible installation in various business environments. The user can set the optimal viewing environment according to the 12 points fitting the space, achieving high picture quality for large 100-inch screens even in small spaces. Moreover, the easily resizable screen enhances user convenience.



12 POINT WARPING



LENS SHIFT



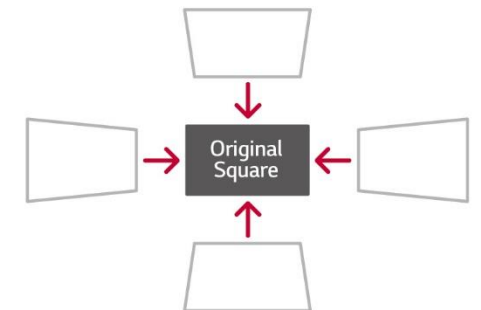
ZOOM x1.6

TECHNICAL TIP



What is Keystone Adjustment?

This function forcibly moves the edges of the screen in the projection to adjust the image closer to the original square.



The perfect fit for business spaces

COMPACT SIZE

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BU50N perfectly matches any conference room with the smallest 4K 5,000 projector.

Enjoy greater manager satisfaction with easy coordination in a variety of business spaces.



SONY PHZ10
20 Liter (11 x 51 x 35 cm)



EPSON L510U
18 Liter (14 x 44 x 30 cm)



Panasonic VMZ50
18 Liter (13 x 35 x 40 cm)



LG ProBeam BU50N 16.7 Liter (15.6 x 29 x 37 cm)



TECHNICAL TIP



Where is it installed?

In Ceiling, Tidy appearance through excellent space efficiency.



On Desk, Enables desk to be freely utilized.



SPECIFICATION

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CATEGORY	BU50N
Brightness	5,000 ANSI
Light Source	Laser (20,000 hours)
Resolution	4K UHD (3840 x 2160)
Contrast Ratio	3,000,000:1
Size (W x D x H)	
Weight	
Power	
Sound	5W + 5W Speaker
SMART TV	webOS 4.5 & Magic Remote
Bluetooth out	O (Sync controllable)
Noise	
Wireless Connection	Android
USB plug & play	Movie, Music, Photo, Office file
Keystone	12 Point-Keystone Adjustment
Input Terminals	

VERTICAL INSTALLATION TIP

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ENTERPRISE

As corporate meetings and communication grow in importance and frequent and long meetings become more commonplace, LG BU50N displays everything from detailed graphics of specialized fields to accurate charts and diagrams, reducing eye fatigue and enhancing work productivity.



HOSPITAL

Precise picture quality is needed due to the nature of reading accuracy. LG BU50N displays detailed images through high picture quality projectors, and offers effective compatibility for consultation and references.

* DICOM (Digital Imaging and Communications in Medicine)
BU50N complies with medical digital imaging and communications standards and provides performance suitable for visual representation used in medical practices.



EDUCATION

Immersive picture quality is vital for improving study concentration. LG BU50N offers picture quality optimized for classroom environments, making it convenient to connect and share various classroom tools and devices.



ENTERTAINMENT

Immersion through vivid picture quality is needed to provide more realistic experiences. Through high-resolution picture quality that perfectly expresses details, LG BU50N offers vividness and realism that match the real environment.