



HOME > PRODUCTS > PROJECTORS > EH-LS12000B

Epson EH-LS12000B



[+ ENLARGE IMAGE](#)

Home Theatre Projectors

[Where to Buy](#)

[Printer Friendly Specs](#)

[Distance Calculator](#)

Overview

KEY FEATURES AND BENEFITS

4K PRO-UHD¹ – 4K home theatre projection technology only from Epson

Up to 3x brighter colours and reliable performance² – 3LCD, 3-chip technology

Break through laser technology – provides up to 20,000³ hours of virtually maintenance free operation, with the added benefits of higher image contrast and instant ON/OFF

Bright images – 2,700 lumens colour brightness and 2,700 lumens white brightness

Dedicated HDR10+ processor – full 10-bit HDR colour processing uses 100% of the HDR source information, enabling images to be reproduced more realistically frame by frame

Lens shift – With this innovative technology, the projector does not need to be placed directly in front of the screen. This comes in handy when there might be light fixtures or ceiling fans which cannot be moved

New 4K image processing chip – real time full 32-bit analogue-to-digital video processing for smooth tonal transitions

Deep black contrast ratio – features an extraordinary contrast ratio up to 2,500,000:1 for exceptionally deep blacks and brilliant, vivid colours

Detail enhancement – sharpen and refine images for lifelike clarity

Lens memory – pre-set up to 10 positions for zoom, focus and lens shift for both standard projection and wide cinema ratios

ISF certification – ensuring accurate and exceptional picture quality

3 year projector warranty – enjoy peace of mind with 3-year warranty

¹ 4K Resolution Enhancement Technology shifts each pixel to produce an image on screen, up to the stated specification.

² Colour brightness (colour light output) in brightest mode, measured by a third-party lab in accordance with IDMS 15.4. colour brightness will vary depending on usage conditions. Top-selling Epson 3LCD projectors versus top-selling 1-chip DLP projectors based on NPD sales data for October 2019 through September 2020

³ 20,000 hours is the estimated projector life when light output is at 100%. Actual hours may vary depending on mode and usage environment.

4K PRO UHD¹

Experience 4K home theatre projection technology from Epson with proprietary dedicated processors for resolution enhancement, HDR, and image processing. Advanced pixel-shifting technology works in parallel with three individual high-definition LCD chips to produce an exceptionally sharp 4K picture achieving 8.3 million pixels and displaying a resolution of 3840 x 2160 on screen without sacrificing picture brightness

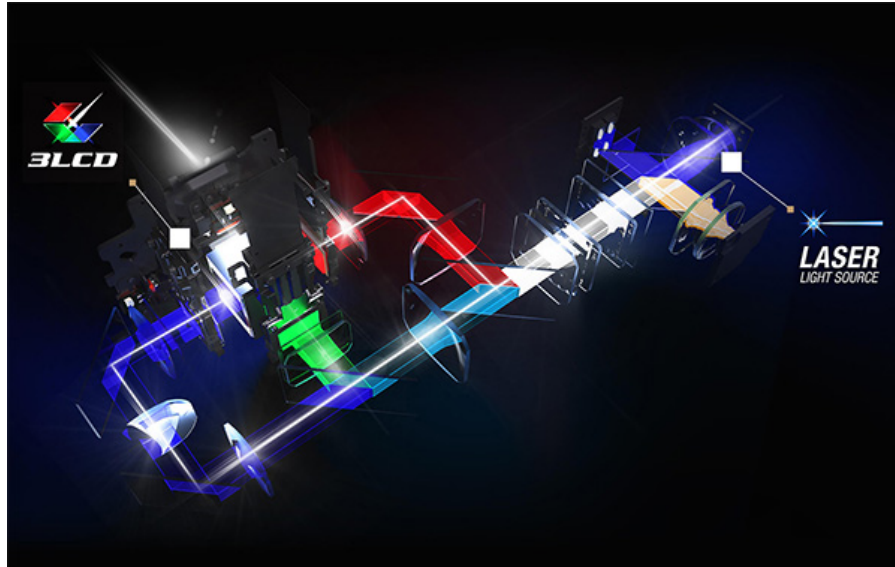
4K PRO-UHD¹ home theatre projectors faithfully display all your favourite content from the classics to the latest blockbusters. This isn't just a new way to watch movies — it's the best way.

¹ 4K Resolution Enhancement Technology shifts each pixel to produce an image on screen, up to the stated specification.



3LCD technology

All Epson projectors are based on 3-chip LCD technology for amazing colour, incredible detail and solid reliability. 3LCD's 3-chip architecture dedicates an entire chip to process each primary colour – red, green and blue, continuously. Unlike single-chip technology that delivers colour sequentially, you get full-time colour. The result is vibrant, realistic images and video all delivered with 3LCD's true-to-life colour.



Up to 3x brighter colours with Epson projectors

Epson projectors use 3LCD engines that have no colour wheel with a white segment and therefore don't force a tradeoff between white and colour brightness.

In fact, Epson projectors have up to 3x brighter colours than their leading competitive 1-chip DLP projectors. If you are looking for business and education projectors or 1080p home entertainment projectors, know that choosing Epson projectors means up to 3x brighter colours².

All Epson projectors list both white brightness and colour brightness specifications, and all have high colour brightness.

² Colour brightness (colour light output) in brightest mode, measured by a third-party lab in accordance with IDMS 15.4. colour brightness will vary depending on usage conditions. Top-selling Epson 3LCD projectors versus top-selling 1-chip DLP projectors based on NPD sales data for October 2019 through September 2020.

High image brightness

Impressive 2,700 lumens of colour and 2,700 lumens of white brightness for an exceptional picture in virtually any theatre environment – even in rooms with ambient light.



Laser light source

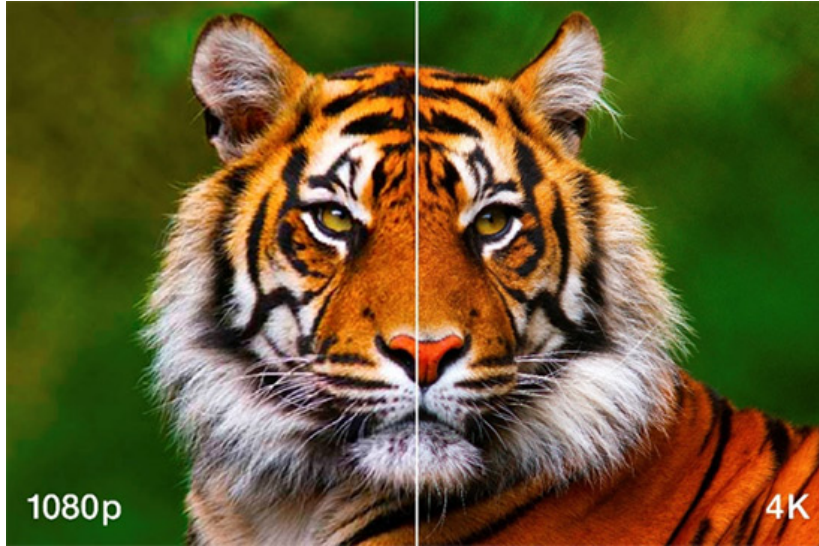
The EH-LS12000B is equipped with a uniquely designed laser optical engine, allowing for uncompromising brightness, contrast, colour and the highest image quality.

The laser engine's long lifespan of up to 20,000 hours provides virtually worry-free operation. And there's no waiting for the projector to warm-up or cool down – the projector reaches maximum brightness and turns off almost immediately.



4K enhancement processor

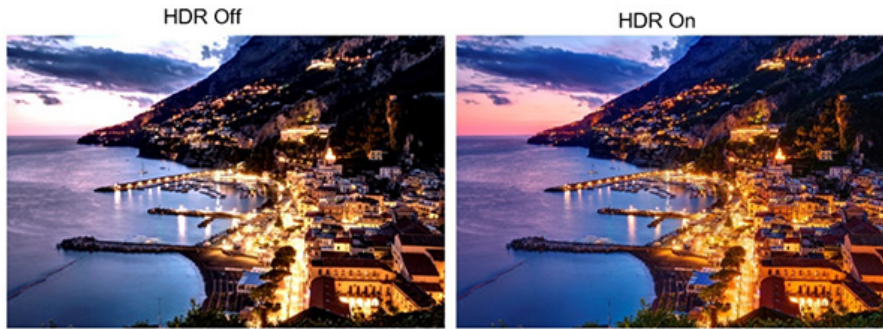
Epson has developed a new 4K image processor for the EH-LS12000B that when combined with the laser light source can achieve a better colour gradation and richer image.



Dedicated HDR10+ processor

The EH-LS12000B supports HDR10+ which shows dynamic range in a frame-by-frame basis so that the subtle details between bright and dark details can be kept.

Epson's full 10-bit HDR colour processing accepts 100% of the HDR source information to faithfully reproduce HDR content for an exceptional visual performance.



Inorganic components

Epson's newly developed phosphor wheel is made of inorganic material with superior light and heat-resistance to deliver excellent reliability. We've also developed inorganic LCD panels – a key component of imaging devices. Combining an inorganic phosphor wheel with inorganic LCD panels in a laser projector results in bright, vibrant images for long periods.

	Inorganic (Glass, iron, aluminum, etc.)	Organic (Paper, wood, plastic, etc.)
Light-resistance	YES	NO
Heat-resistance	YES	NO

Unlike organic substances, inorganic substances do not contain carbon

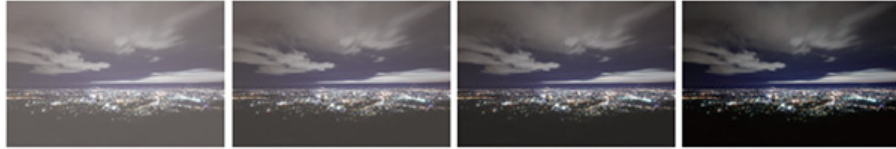
Dedicated digital imaging processor

Real-time 32-bit analogue to digital video processing ensures smooth tonal transition, while eliminating banding, blocking and other compression artefacts from the final visual performance. The powerful processor in the EH-LS12000B faithfully reproduces the source material the way it was intended to be shown.



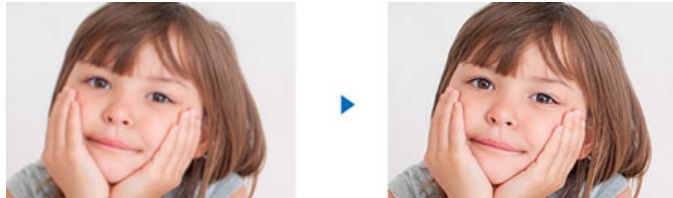
Deep black contrast ratio

Enjoy bright, vibrant pictures and excellent shadow detail of your favourite movies with 2,500,000:1 deep black contrast ratio on EH-LS12000B. Bring out mesmerising dark scenes of full high-definition images for a brilliant viewing experience.



Detail enhancement

Fine tune high definition images by turning on the detail enhancement feature which sharpens and refines images for lifelike clarity.



Flexible installation

Making installation simple, you can precisely shift the lens up to +/- 47% horizontally and up to +/- 96% vertically without any loss in picture distortion or clarity thanks to the EH-LS12000B's 3-axis motorised lens.

The EH-LS12000B has a front exhaust that enables the projector to be installed on a shelf at the back of the room and with a highly sealed optical unit, less light escapes, meaning you can be fully immersed in whatever you're watching.



4K frame interpolation

The EH-LS12000B can generate intermediate frames to improve overall motion fluidity and sharpness. This results in a smooth 4K image with less blur.



Scene adaptive gamma

Powered by the image processor, scene adaptive gamma allows the user to automatically adjust the picture quality based upon the scene information itself. This provides a simple way to get impressive colour and contrast, regardless of the content being displayed and provides a balanced and dynamic image with improved detail, especially in dark scenes.



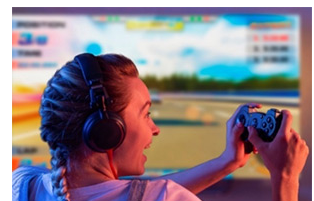
Cinematic lens

Designed for zero-light leakage, the EH-LS12000B Lens utilises a 15-element precision glass structure for outstanding image clarity and edge-to-edge focus uniformity.



Gaming on the big screen

Gaming up to 4K at 120 frames per second, along with input lag times below 20 ms, allows for serious gamers to take full advantage of the latest generation of gaming consoles and higher-end gaming PCs.



Stylish design

With the design inspired by a minimalist shape, charcoal black colour and carefully chosen fabric pattern, the trendy look and feel of the EH-LS12000B blends naturally into any home theatre environment.



Audio connectivity

Thanks to ARC, audio can be carried via the projector using an HDMI cable. In addition, eARC supports high-quality sound, allowing you to enjoy a cohesive mix of video and sound in an easier installation.



Specification

PRODUCT NAME	EH-LS12000B
PRODUCT CODE	V11HA47053
WHAT'S IN THE BOX	
	EH-LS12000B Projector, 3m Power Cable, Remote Control, 2x Batteries, Cable Cover, User Guide, QR Code Sheet
TECHNOLOGY	
Projection System	3LCD
LCD Panel	0.74-inch panel
Light source	Laser diode
IMAGE	
Colour Light Output	2,700 Lumens
White Light Output	2,700 Lumens
Resolution	4K* (1920 x 1080) x 4
Native Aspect Ratio	16:9
Contrast Ratio	2,500,000:1
Colour Reproduction	Up to 1.07 billion colours
Colour Processing	10 bit (12 bit image Processing)
Keystone Correction	Vertical: -30 to +30 degrees Horizontal: -30 to +30 degrees
Lens Shift (Powered)	Yes Vertical: ±96.3% Horizontal: ±47.1%
Zoom Ratio	1 - 2.1 (Optical)
Screen Size	50" to 300" (16:9) [148 cm to 908 cm]
Projection Distance (measured from the end of unit to projection screen)	100" screen (16:9) – 3.0 – 6.3 m
Throw Ratio	1.35 (Zoom:Wide) 2.84 (Zoom:Tele)
Lens F Number	2.0 – 3.0
Lens Focal Length	22.5 mm - 46.7 mm
Focus Method	Powered
CONNECTIVITY	
Input: Digital	2 x HDMI (HDCP2.3) (HDMI2 supports eARC/ARC)
Input: Opt.HDMI	1 x USB A
Input: Control	1 x RS232c
Network I/O	1 x RJ45
Trigger Out	3.5 mm mini-jack
ADVANCED FEATURES	
4K Enhancement*	Yes
High Dynamic Range – HDR10, HDR10+	Yes
Hybrid Log Gamma – HLG	Yes
Advanced Image processing	Yes
Super Resolution	Yes (4K compatible)
Frame Interpolation	Yes (up to 4K 60fps)

Auto Contrast Enhancement	Yes
Scene Adaptive Gamma	Yes
AV Mute	Yes
Direct Power On	Yes
Security	Kensington®-style lock provision
Colour Modes	Dynamic, Bright Cinema, Cinema, Natural, Vivid
GENERAL	
Dimensions D x W x H (Projector Inc Feet)	447 x 520 x 192.7 mm
Net Weight (Projector)	Approx. 12.7 kg
Projector Warranty	3 Years
Power Consumption: Normal	302 W
Power Consumption: Standby	2.0 W
Noise Level	Normal: 30 dB Quiet: 22 dB

* 4K Resolution Enhancement Technology shifts each pixel to produce an image on screen, up to the stated specification.

Epson is the registered trademark of Seiko Epson Corporation. Epson ESC/P2 and Epson Stylus are trademarks of Seiko Epson Corporation. MicroDot is a trademark of Epson Australia Pty Limited. All other product names and other company names used herein are for identification purposes only and may be the trademarks or registered trademarks of their respective owners. Epson disclaims any and all rights in those marks. Specifications are subject to change without notice.

Equipment supplied by Epson Australia is designed to function in conjunction with genuine Epson consumables and accessories specifically configured for it.

Usage Conditions

Epson products are designed and made to give highly reliable use and long life when used according to its specifications. With any system, product or device used in situations where human life may be involved or at risk, Epson advises that you should take all necessary steps to ensure the suitability of your Epson product for inclusion in your system, and recommends that you include fail-safe procedures and redundancy support or backup equipment in your system, to maintain the maximum safety margin and optimum system reliability. Examples include but are not limited to – do not interfere with any electrical components within the device, do not use items supplied with the product for purposes other than as intended by Epson (ie mains cords, inks, CDs, plastic wrapping) and do not make modifications to the product.

Consumables

ACCESSORIES & OPTIONS	PRODUCT CODE
<u>ELPAF62 Air Filter</u>	ELPAF62
<u>ELPMB22 Ceiling Mount</u>	V12H003B22
<u>ELPFP13 Extension Pole - 450mm</u>	V12H003P13
<u>ELPFP14 Extension Pole - 918mm to 1,168mm</u>	V12H003P14
<u>ELPAP12 Streaming Media Player</u>	V12H005A09
<u>ELPMB30 Low Profile Ceiling Mount</u>	V12H526040

Epson is the registered trademark of Seiko Epson Corporation. Epson STYLUS, PerfectPicture, MicroPiezo, AcuPhoto Halftoning, QuickDry are the trademarks of Seiko Epson Corporation. All other names and company names used herein are for identification purpose only and may be the trademarks or registered trademarks of their respective owners. Epson disclaims any and all rights in those marks. All print samples shown herein are imulations. Specifications are subject to change without notice.