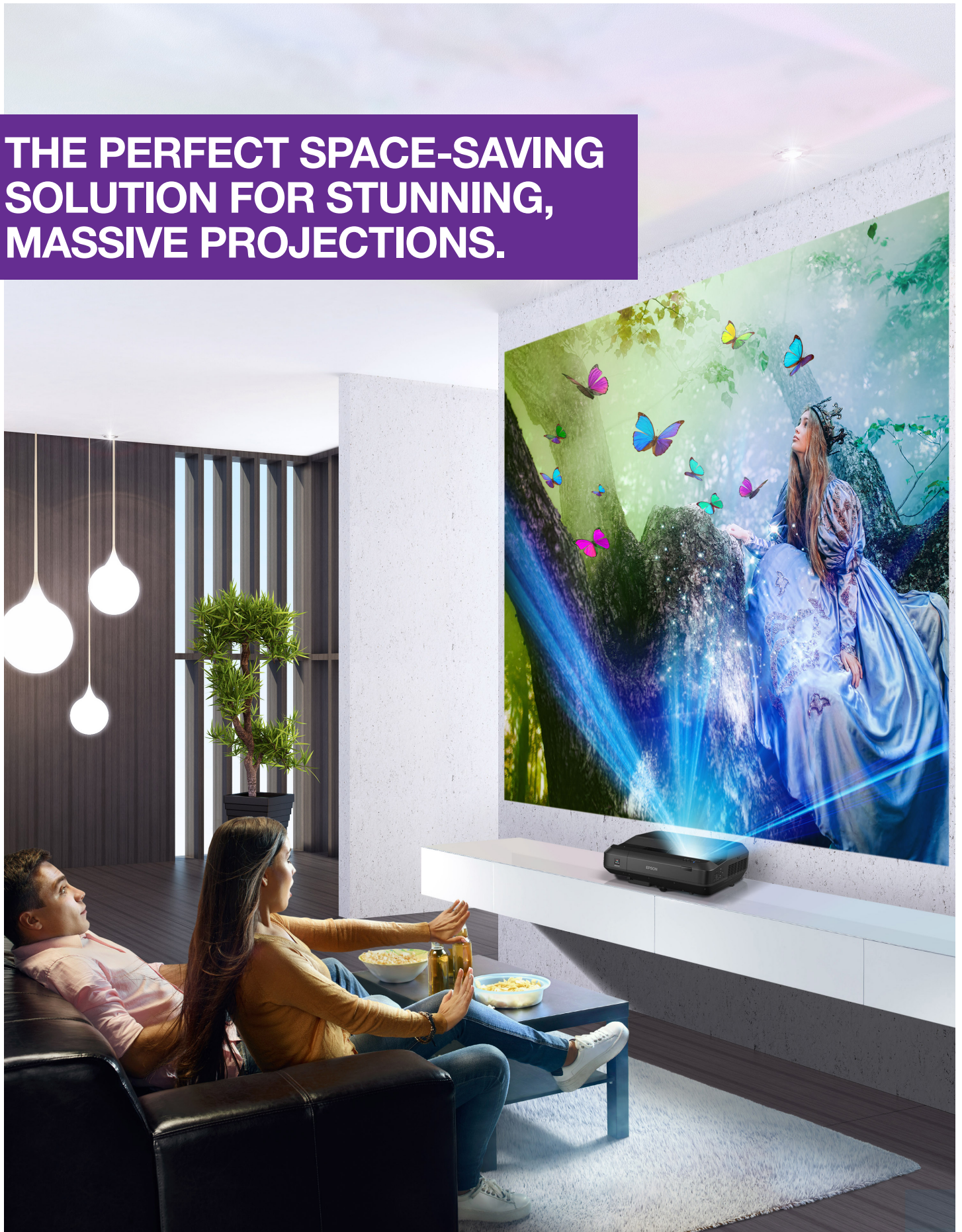# ULTRA-SHORT THROW LASER
HOME THEATRE PROJECTOR
EH-LS100

EPSON
EXCEED YOUR VISION

THE PERFECT SPACE-SAVING SOLUTION FOR STUNNING, MASSIVE PROJECTIONS.

The next level in
big screen entertainment

Marvel at the wonders of home entertainment with the Epson EH-LS100. This projector is ideal for everyone with a guaranteed convenience of saving space and simple installation. Designed to project at near distance while displaying a larger screen size, it delivers outstanding performance through the colours of perfection. Powered by laser light source, long-hours usage is assured for constant indulgence of a remarkable experience.

EPSON

Ultimate Convenience and Hassle-free Installation for Complete Peace of Mind

The EH-LS100 revolutionises the way you maximise your home space. With the support of ultra-short throw lens, distance and space are no longer an issue when it comes to perfect projections. No matter where the projector is placed, enjoy clear and breathtaking images with consistent colour uniformity over your entire screen.

With an easy and stress-free set up, say goodbye to unsightly cables while enjoying all of your favorite shows. Achieve amazing 100-inch projection with placement of just 26cm away from the wall. Experience the ultimate space availability while admiring massively beautiful projections at home. Specially engineered for user-friendliness and easy management, simply plug in and play to experience absolute relaxation and entertainment.

Quick Start-up Time

Equipped with laser light technology, the EH-LS100 starts up within 5 seconds, ensuring immediate projections that will cater to your home entertainment needs.

16W Built-in Speaker

Enjoy dynamic audio from the built-in 16W speaker without having to connect to an amplifier or separate speaker.

Quality Projections with Sharper and Cleaner Images

Take home entertainment experience to the next level. Boasting stunning brightness of up to 4,000 lumens and a high contrast ratio of 2,500,000:1, the EH-LS100 enables you to project beautiful, well-defined images regardless of ambient light. Be amazed as sophistication is brought to the texture and resolution of your projected screen. Alongside Detail Enhancement, surface detail is refined for true-to-life images.

Colour Modes

Choose from an array of colour modes for an optimised viewing experience.
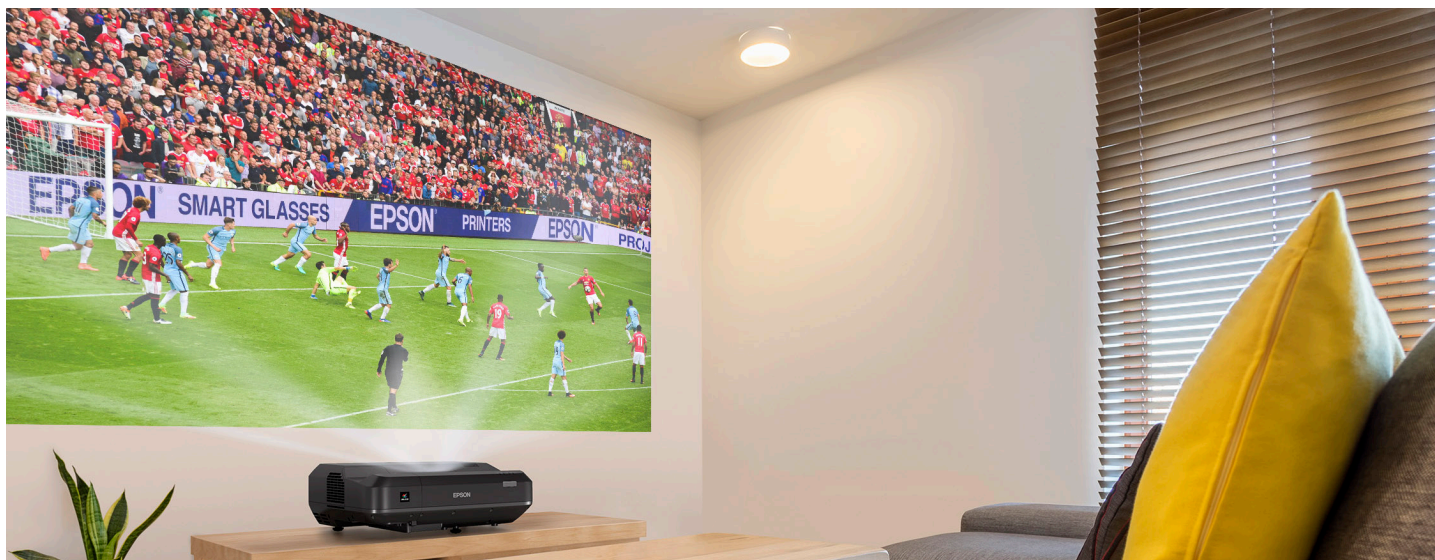Colour modes include Dynamic, Bright Cinema, Cinema and Game.

Cinema Mode

Indulge in the authentic cinematic experience in the comfort of your home.

Dynamic Mode

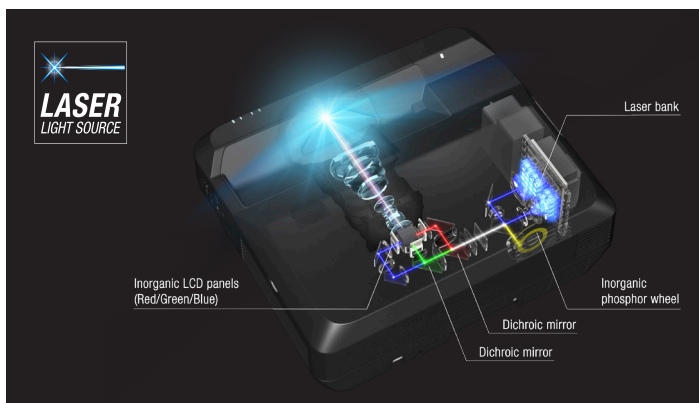Enjoy vivid image quality during the day without the need to dim the lights.

Reliable Performance

Enjoy fast, reliable projection from a constant beam of light.
The laser light source delivers images that are more stable.

Revolutionary Laser Light Source

Blue light from the laser is projected through a beam splitter, which divides the light into two beams. One beam is reflected by a phosphor wheel, changing it into yellow, while the other beam remains blue. The two beams are then recombined into white light and separated into red, green and blue through dichroic mirrors. Each of the three colours passes through LCD panels, producing three individual images, which are transmitted through a prism and combined into the final full-colour image.

LASER
LIGHT SOURCE

Laser bank

Inorganic LCD panels
(Red/Green/Blue)

Inorganic
phosphor wheel

Dichroic mirror

Dichroic mirror

Inorganic LCD Panels and Phosphor Wheel for Outstanding Reliability

Made of inorganic material, Epson's newly developed phosphor wheel offers superior light and heat resistance to deliver excellent reliability. By combining this with our inorganic LCD panels, we create laser projectors that deliver vibrant images for extremely long periods.

Organic vs. Inorganic

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

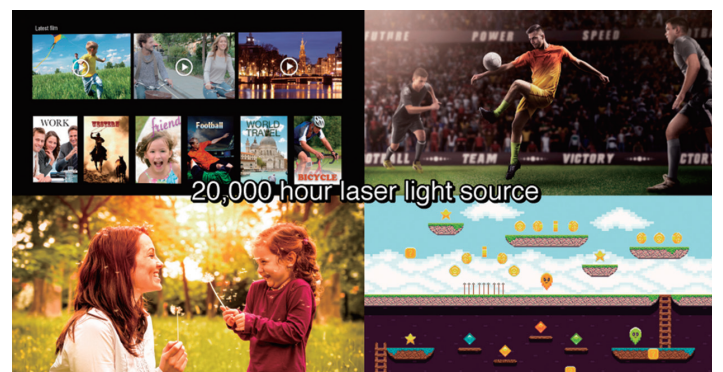Unlike organic substances, inorganic substances do not contain carbon.

Finely-tuned Colour

The laser light source means that the correct colour gamut is fully realised at all times.
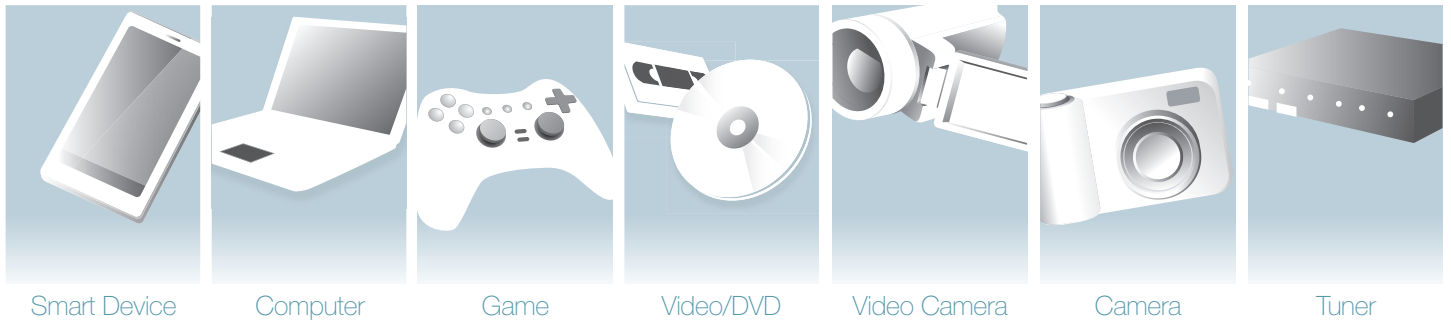
20,000 Hours Laser Light Source

Utilise the Epson EH-LS100 for hours at a time without qualms or worries. With a long-life laser light source that boasts a lifespan of up to 20,000 hours, this projector delivers TV-like usage hours for your viewing pleasure. To top it all off, through the aid of high-speed contrast controls, bright and dark scenes will always look phenomenal.

20,000 hour laser light source

Wide-range Connectivity

With integrated support for multiple connection methods, including HDMI to suit a wide range of entertainment devices, the EH-LS100 makes home entertainment more accessible than ever.

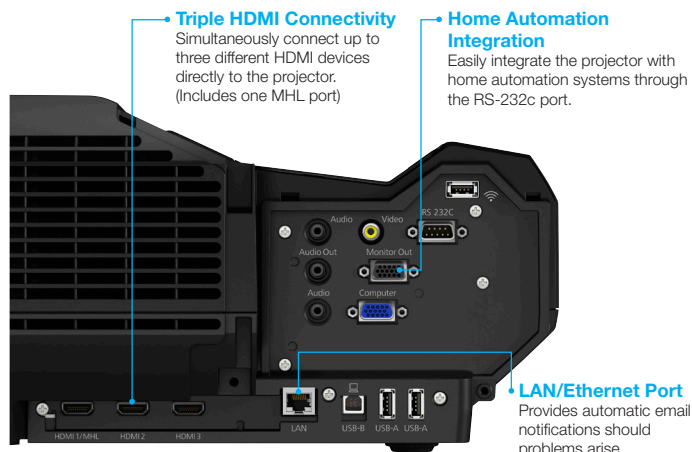| Smart Device	Computer	Game	Video/DVD	Video Camera	Camera	Tuner

HDMI Link

Any AV equipment connected via a HDMI cable can be turned ON/OFF by simply operating the power to the projector. The power for multiple devices can be managed easily with the use of a single remote control.

Practical Functionality, Convenient Connectivity

With enriched network functionality, you can also enjoy stress-free servicing for your ultimate peace of mind.

Triple HDMI Connectivity
Simultaneously connect up to three different HDMI devices directly to the projector. (Includes one MHL port)

Home Automation Integration
Easily integrate the projector with home automation systems through the RS-232c port.

LAN/Ethernet Port
Provides automatic email notifications should problems arise.

iProjection App

Enjoy smooth, smart wireless projection directly from Android and Apple iOS tablets and smartphones with the iProjection app. Simply connect the projectors* through direct Wi-Fi transmission. Install iProjection software to enjoy wireless projection from PC or laptop. With stable and seamless connectivity, behold as images or videos on your smart devices are transformed into life-sized versions while retaining their picture-perfect qualities.

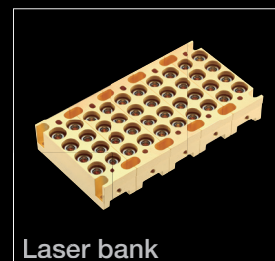*Image as shown above is for illustration purposes only.

Through the iProjection app, your smart device can be used as a remote control. It also includes touch control operation for easy navigation of menus including the "Picture Quality Presets" which can be selected to suit a variety of room environments.

EPSON REVOLUTIONISES PROJECTOR MARKET WITH 3LCD TECHNOLOGY AND LEADS AS WORLD'S NO.1* PROJECTOR BRAND FOR 16 CONSECUTIVE YEARS!
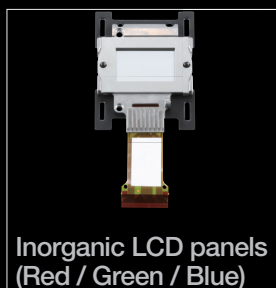
* Based on independent research by Futuresource Consulting
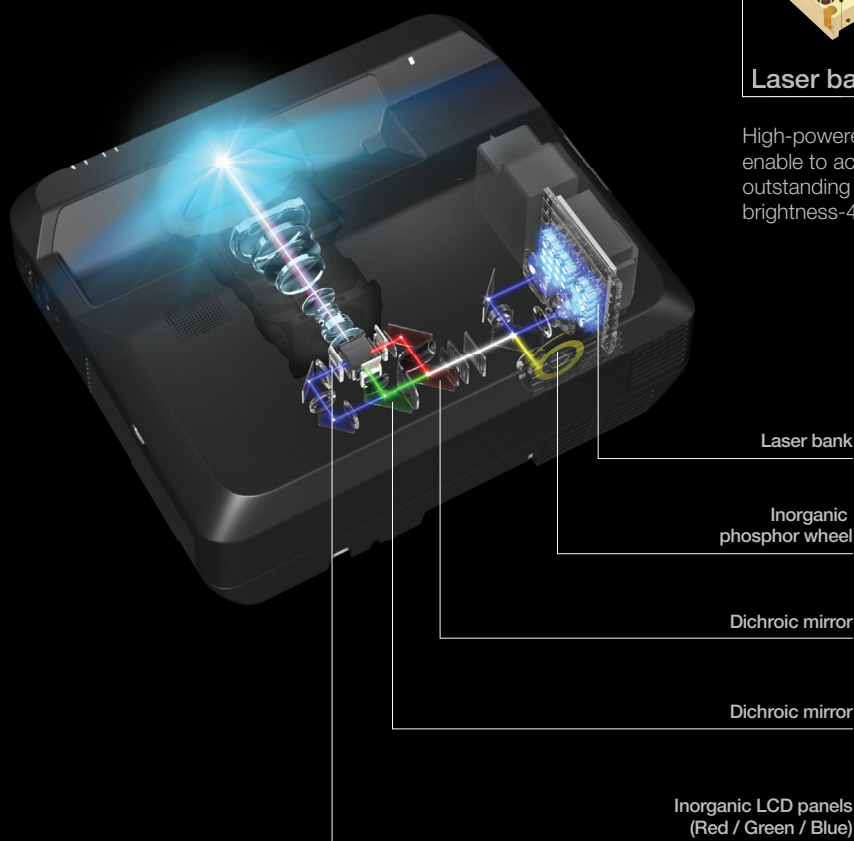
Inorganic phosphor wheel

The device used to change blue laser light into yellow light. The adoption of an inorganic phosphor wheel has made it durable enough to withstand the high output of a laser light source.
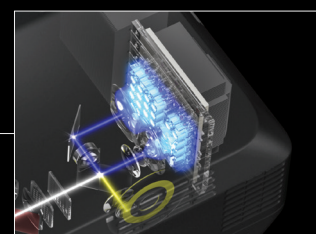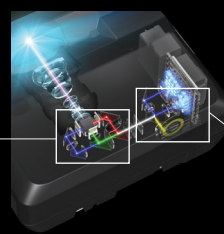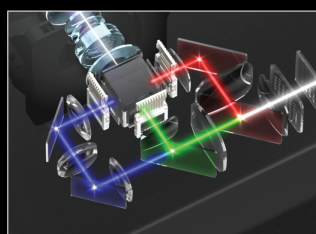
Laser bank

High-powered laser diodes enable to achieve the outstanding brightness-4,000lm.

Inorganic LCD panels (Red / Green / Blue)

The adoption of an inorganic panel enhances light resistance and helps realise an even longer life.

Laser bank

Inorganic phosphor wheel

Dichroic mirror

Dichroic mirror

Inorganic LCD panels (Red / Green / Blue)

First, blue light from the laser is projected through a beam splitter, which divides the light into two beams: One beam is reflected by a phosphor wheel, where it is changed into yellow, while the other beam remains blue. The two beams are then recombined into white light.

It is separated into red, green and blue through dichroic mirrors. After this, each of the three colours pass through LCD panels, producing three individual images. Lastly, these three images are transmitted through a prism and combined into the final full-colour image.

www.3lcd.com

COLOUR BRIGHTNESS
Know your projector lumens

SEE VIBRANT, REALISTIC COLOURS WITH HIGH COLOUR BRIGHTNESS.

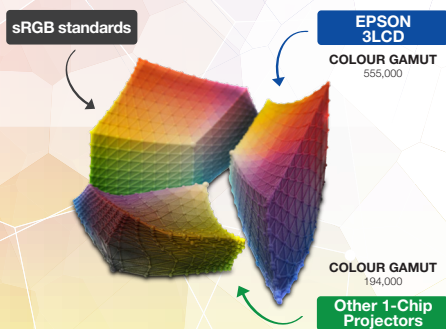**9 out of 10 PEOPLE PREFER IMAGES FROM EPSON PROJECTORS***

*Leading Epson business and education projectors vs. leading 1-chip DLP projectors, selected according to NPD data as of July 2015. Based on U.S. research conducted by Radius Research.

See colours like never before. Epson 3LCD projectors deliver brilliant colours that match its white brightness to give you balanced, realistic, and vibrant images. It's no wonder Epson projectors are the people's preferred choice.

Up to 3X Wider Colour Gamut

Colour gamut refers to the range of colours that can be reproduced by a display device – the wider the gamut, the more realistic it is. Epson 3LCD projectors project three times wider gamut that matches closely to the original standard of a display device (sRGB), as compared to 1-chip projectors.

Up to 3X Brighter Colours

Epson 3LCD projectors deliver up to three times the colour brightness, effortlessly creating the same colour and white brightness, resulting in faithful images with superior colour balance.

No Rainbow Effect

With 1-chip projectors, the spinning motion of the sequential colour wheels tend to cause colours to break out into distinct red, green and blue. Called the rainbow effect, this may cause users to suffer headaches with prolonged viewing. Epson projectors do not give out this effect, giving users a comfortable experience.

sRGB standards

EPSON 3LCD
COLOUR GAMUT
555,000

COLOUR GAMUT
194,000
Other 1-Chip Projectors

EPSON 3LCD
WHITE 3000 Lumens   COLOUR 3000 Lumens

Other 1-Chip Projectors
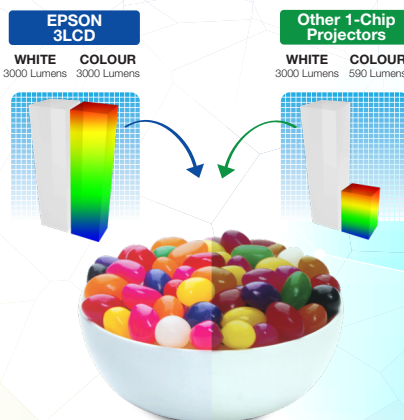WHITE 3000 Lumens   COLOUR 590 Lumens

Comparing the yellow corners among the three gamuts, 1-chip projectors have a distinctly darker and smaller set of colours which are not as vibrant as Epson 3LCD projectors.

3LCD

www.epson.com.sg/colourbrightness

To learn more about 3LCD engines, visit
www.3lcd.com

MODEL NUMBER		EH-LS100
Projection Technology		RGB liquid crystal shutter projection system
Specifications of Main Parts		
LCD	Size	0.67" (D10)
	Native Resolution	WUXGA
Projection Lens		
	Type	No Optical zoom / Focus (Manual)
	F-Number	1.60
	Focal Length	4.2 mm
	Zoom Ratio	1.0 - 1.35 (Digital zoom)
	Throw Ratio	0.27 - 0.37 (Wide - Tele)
Lightsource	Type	Laser Diode
	Life	20,000 hours
Screen Size (Projected Distance)		
Zoom: Wide		70" to 130" [40.5 to 78.1 cm]
Zoom: Tele		70" to 130" [55.8 to 106.7 cm]
Standard Size		90" screen [53 to 72.8 cm]
Brightness		
White Light Output (Normal / Eco)		4000 lm / 2800 lm
Colour Light Output		4000 lm
Contrast Ratio		Over 2,500,000:1
Internal Speaker(s)		
Sound Output		16 W Mono x 1
Geometric Correction		
Keystone	Vertical	-3 to +3 degrees
	Horizontal	-3 to +3 degrees
	Auto Keystone	N.A.
Quick Corner		Yes
Connectivity		
Analog Input	D-Sub 15Pin	1 (Blue)
	Composite	RCA x 1 (Yellow)
Digital Input	HDMI	3 (HDMI1 in common with MHL)
Analog Output Terminal	D-Sub 15Pin	1 (Black)
Digital Output Terminal	DVI-D	NA
Audio Input	Stereo Mini Jack	2
Audio Output	Stereo Mini Jack	1
MIC I/O	Stereo Mini Jack	NA
Others	USB Type A	2 (for USB Memory, Firmware update, Copy OSD Settings)
	USB Type B	1 (for USB Display, Mouse, K/B, Control, Firmware Update, Copy OSD Settings)
Control I/O	RS-232C	D-sub 9 pin x 1
Network	Wired LAN	RJ45 x 1 (100 Mbps)
	Wireless	Yes (ELPAP10 Option)
Wireless Specification (Wireless LAN)		
Supported Speed for each Mode		IEEE 802.11b: 11 Mbps
		IEEE 802.11g: 54 Mbps
		IEEE 802.11n: 130 Mbps
Supported Mode		Infrastructure, Access Point
Wireless Lan Security		Quick Mode: WPA2-PSK
		Advanced Mode: WPA/WPA2-PSK
Operating Temperature		Single use: 0 °C to 45 °C* <32 °F to 113 °F>
		(20 % - 80 % humidity, No condensation)
		*When environmental temperature becomes high, the brightness becomes dark automatically
		Multi-projection use*: 0 °C to 40 °C** <32 °F to 104 °F>
		(20 % - 80 % humidity, No condensation)
Operating Altitude		0 m to 3000 m (0 ft to 9842 ft)
		(over 1500 m / 4,921 ft: with High altitude mode)
Direct Power On / Off		Yes / Yes
Start-Up Period		Less than 9 seconds (Epson Logo)
		Quick Startup: Approx 5 seconds (HDMI / Computer / Video input)
		Warm-up period: 30 seconds
Cool Down Period		Instant Off
Air Filter		
Maintenance Cycle		20,000 H
Power Supply Voltage		100 - 240 V AC +/- 10%, 50 / 60 Hz
Power Consumption (220 - 240V)		
Laser Diode (Normal / Eco)		423 W / 332 W
Standby (Network On / Off)		2.0 W / 0.3 W
Dimension Excluding Feet (D X W X H)		437 X 494 X 172 mm
Weight		Approx. 24.3 lbs / 11.0 kg
Fan Noise (Normal / Extended / Quiet)		38dB / 37dB / 27dB

Supplied Accessories
Power Cable: 3 m
Remote Control: Yes, with battery attached

Optional Accessories
Air Filter: ELPAF43
Wireless LAN: ELPAP10

Information correct as at November 2017