

EB-L20000U/EB-L12000Q

PROJECTORS

EPSON
EXCEED YOUR VISION

First Native 4K Projector
A GALAXY OF INNOVATION



Endlessly innovating for superb displays

Epson does it again. Vertically integrated production of core device parts, from design through manufacture. Our newest EB-L20000U/L12000Q projectors leverage our know-how and technologies to deliver advancements such as a native 4K* panel, a new cooling system and zero offset lens. Epson leads the way in high-lumen projectors, taking you to a dazzling level of performance and satisfaction.

* EB-L12000Q

POWERFUL and COMPACT

- 3LCD technology
- EB-L20000U: 20,000 lm/WUXGA
- EB-L12000Q: 12,000 lm/Native 4K
- Light and compact body
 - EB-L20000U/EB-L12000Q: 620 mm x 280 mm x 720 mm
 - EB-L20000U: 49 kg / EB-L12000Q: 51 kg

RELIABLE

- 20,000-hour maintenance free*
- Triple-layer, dust-proof structure

* No maintenance for the laser light source required up to 20,000 hours. Approximate time until brightness decreases 50% from first usage. Measured by acceleration test assuming use of 0.04 - 0.20 mg/m³ of particulate matter. Time varies depending on usage conditions and environments. Replacement of parts other than the light source may be required in a shorter period.

FLEXIBLE

- Zero offset, ultra short-throw lens
- Wide-range of optical lenses
- Tiling Assist
- EPSON PROJECTOR PROFESSIONAL TOOL



* EB-L12000Q



EB-L20000U/L12000Q projectors offer incredibly bright output from light, compact bodies. And they are so easy to install, whether as an upgrade to existing Epson projectors or as new installations. The 20,000 lm* WUXGA and 12,000 lm native 4K† make for truly stunning performances.

* EB-L20000U

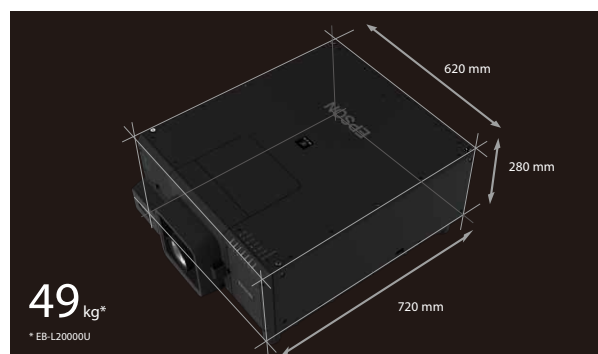
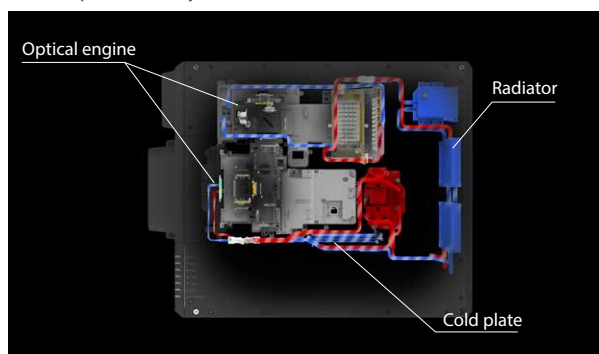
† EB-L12000Q



COMPACT SIZE THANKS TO A TOTAL LIQUID COOLING SYSTEM

A newly developed liquid cooling system maintains optimal temperatures of key optical elements. The inorganic LCD panels, inorganic phosphor wheel and laser light source keep cool no matter how the projector is installed. This efficient cooling system contributes to minimizing body size.

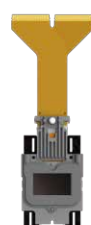
Total liquid coolin system



NATIVE 4K* PANEL

Our own 1.04-inch, native 4K panel deliver ultra-high definition image quality and beautiful output. The panel with its 6 µm pixel-pitch is designed by Epson and manufactured to the highest standards in our Japanese factories.

3LCD panel



* EB-L12000Q

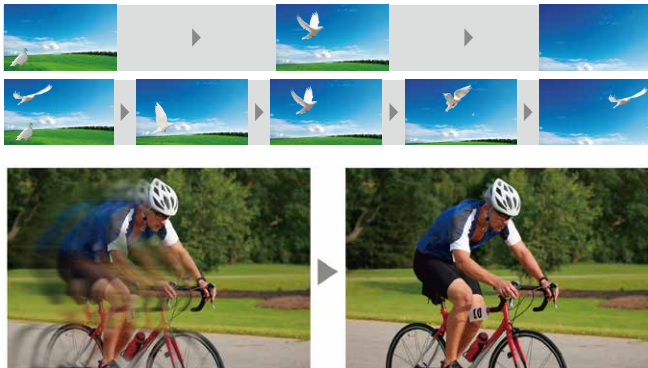




FRAME INTERPOLATION*

By analyzing frame-by-frame then generating intermediate frames for 100Hz/120Hz frame rate, EB-L20000U delivers smooth video with less after images, even when projecting sports and other fast-moving content.

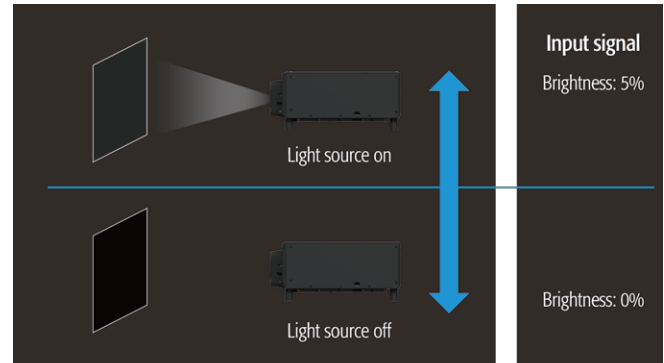
* Only for EB-L20000U



Simulated images

LIGHT-OUT CONTROL

You can control the laser light source, turning it on or off based on the black level value of the video signal.



HIGH DYNAMIC RANGE

EB-L20000U/L12000Q support HDR10 and Hybrid Log-Gamma for dynamic output over a broad tonal range with a minimum of white or black spotting.

SDR (standard dynamic range)



HDR (high dynamic range)



Simulated images

IMAGE ENHANCEMENT

Epson's unique high-quality image signal processing maintains edge crisp and highly detailed edges.

Without image enhancement technology



With image enhancement technology



Simulated images

Epson EB-L20000U / L12000Q equipped with a highly durable inorganic phosphor wheel and LCD panel. Moreover, the triple-layer dustproof structure provides outstanding durability.

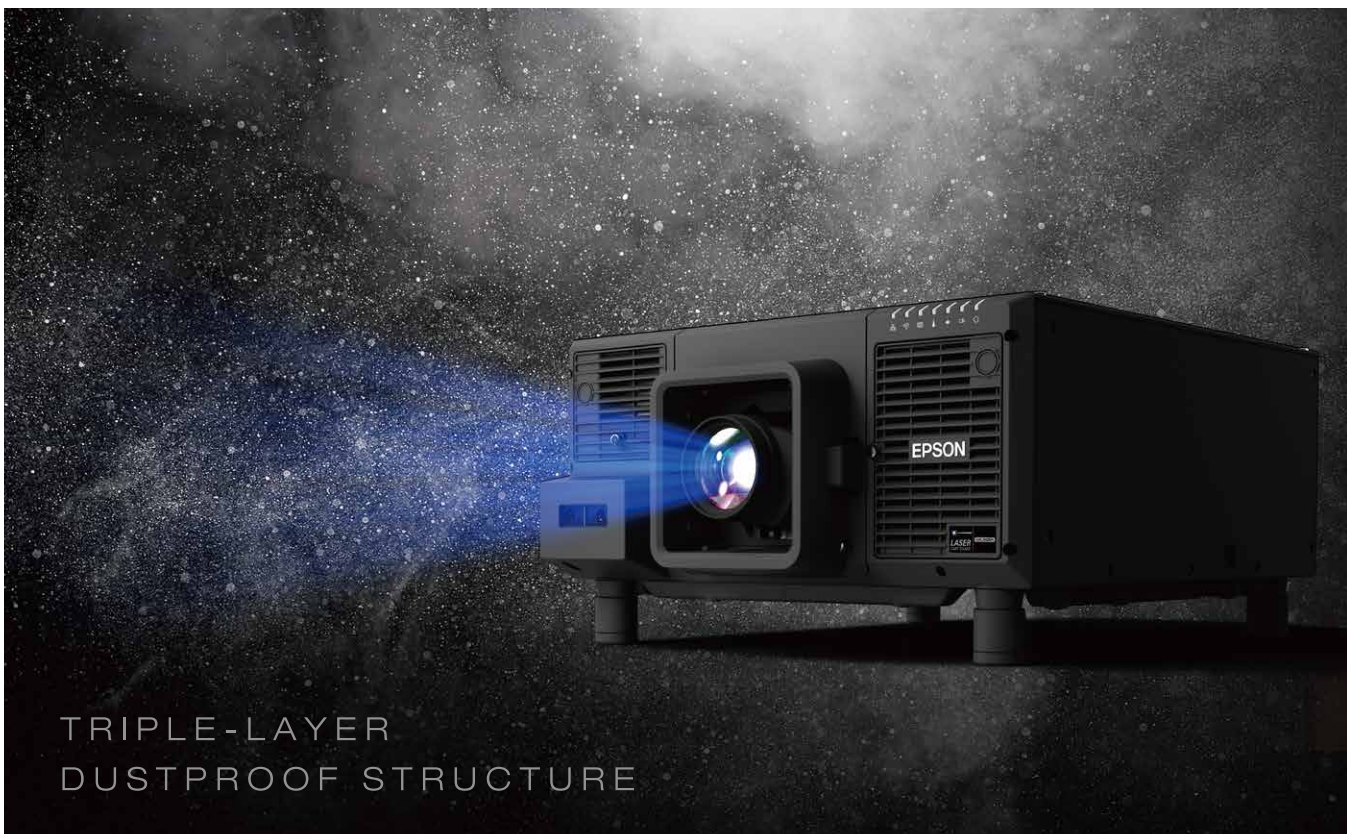
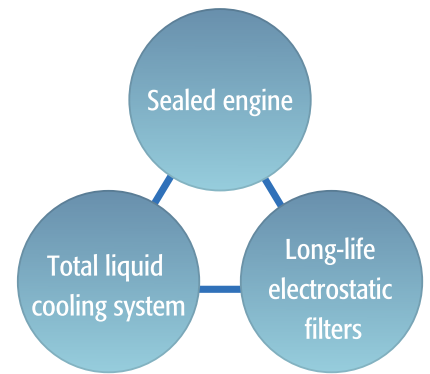


TRIPLE-LAYER DUSTPROOF STRUCTURE

EB-L20000U/L12000Q has three layers of protection for excellent durability and dust-resistance. The light source and optical elements are both sealed, and the newly developed total liquid cooling system splits airflow while reducing incoming air to the optical engine by 86%* compared to conventional models. In addition, replaceable 20,000-hour, maintenance-free† electrostatic filters cut dust intake to miniscule levels.

* Compared with EB-L25000U. Measured by acceleration test assuming use of 0.04 - 0.20 mg/m³ of particulate matter. Results may vary depending on usage conditions.

† Measured by acceleration test assuming use of 0.04 - 0.20 mg/m³ of particulate matter. Time varies depending on usage conditions and environments.

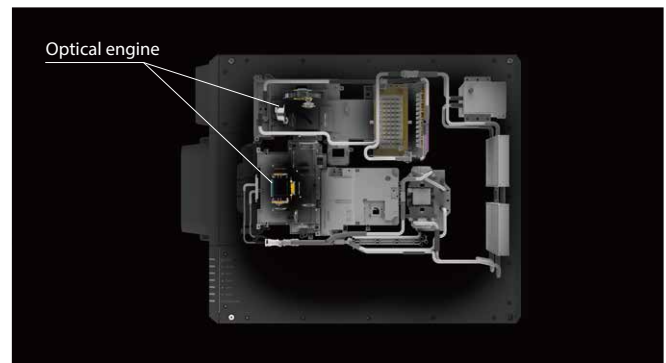




SEALED OPTICAL ENGINE

Key optical components, including the inorganic panel, inorganic phosphor wheel and laser bank are sealed to prevent contamination by dust or smoke*.

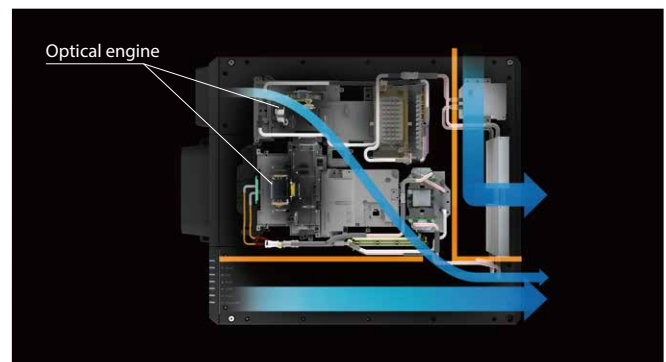
* Measured by acceleration test assuming use of smoke made of white oil. Depending on the usage condition and types of smoke used, there may be a case to clean up or replace components of the projector.



86% REDUCED AIRFLOW AND SEALED ENGINE

The total cooling system takes in air independently for both the radiator and power supply. This reduces airflow to the optical engine by 86%* compared to conventional models.

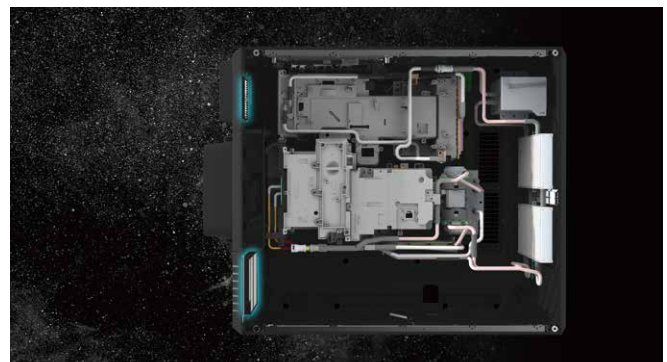
* Compared with EB-L25000U. Measured by acceleration test assuming use of 0.04 - 0.20 mg/m³ of particulate matter. Results may vary depending on usage conditions.



LONG-LIFE, REPLACEABLE ELECTROSTATIC FILTERS

20,000-hour maintenance-free* electrostatic filters reduce incoming dust impairing optical components.

* Measured by acceleration test assuming use of 0.04 - 0.20 mg/m³ of particulate matter. Time varies depending on usage conditions and environments.





ROBUST BODY

The adoption of a pipe frame and baseplate structure has greatly improved the durability of the casing. By redesign the internal structure, we achieved the compact and lightweight design for easy installation.



STATUS MONITOR

Quickly check the signal, voltage and network information via the monitor.



POWER SUPPLY LOG

Monitor and log times with drops in voltage. The ability to log up to 30 voltage drops can help determine the cause of unexpected shutdowns.

MECHANICAL SHUTTER

The mechanical shutter inside the unit is protected against damage from laser lights that are sometimes part of lightshows.

SETTINGS ON STANDBY

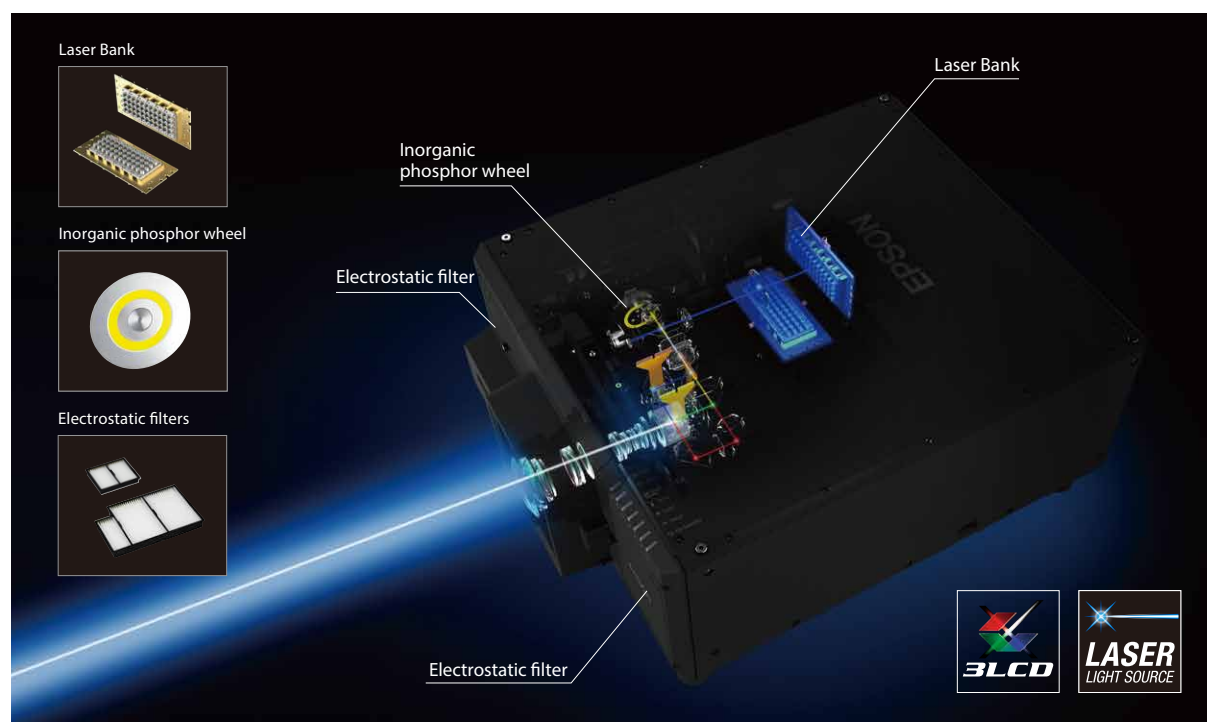
Configuration IP settings can be controlled without powering up.



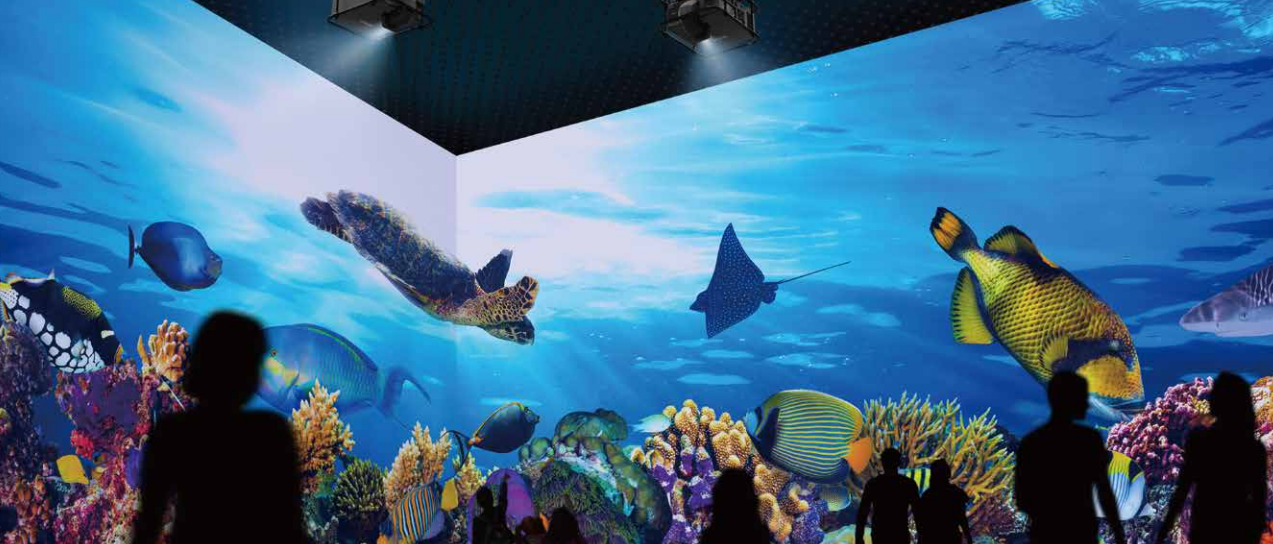
MAINTENANCE-FREE LIGHT SOURCE

Laser light source can operate for up to 20,000 hours maintenance free*.

The laser light source is highly reliable, eliminating the worry of the light burning out during important presentations.

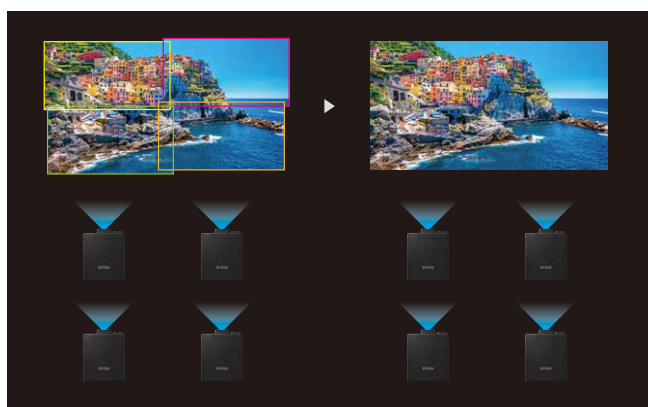


* No maintenance for the laser light source required up to 20,000 hours. Approximate time until brightness decreases 50% from first usage. Measured by acceleration test assuming use of 0.04 - 0.20 mg/m³ of particulate matter. Time varies depending on usage conditions and environments. Replacement of parts other than the light source may be required in a shorter period.



TILING ASSIST

The built-in camera automatically compensates for overlapping areas and corner positions to deliver seamless multi-projector displays, making big-screen projections a snap.

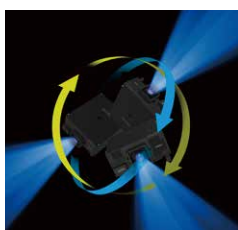


EMBEDDED GEOMETRY CORRECTION

Functions for multi-projector installations and a variety of geometry corrections — like corner and curved projections — are built-in.

MULTI-DIRECTIONAL PROJECTION

EB-L20000U/L12000Q can be rotated 360° in any direction — horizontally, vertically and rotationally — without any loss in image brightness.

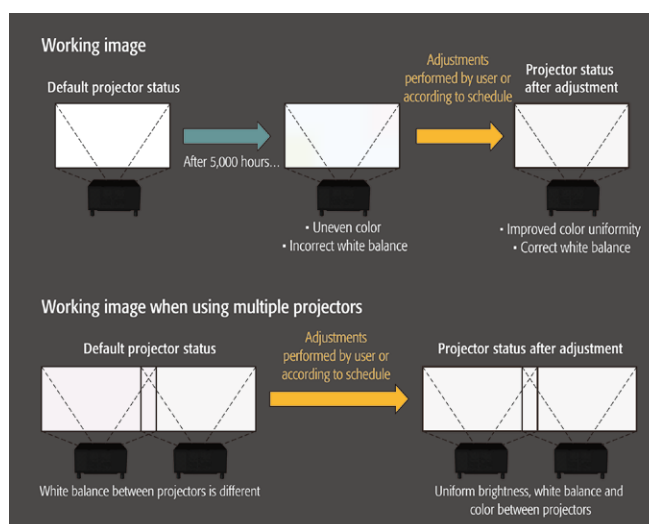


100V START-UP

Epson EB-L20000U / L12000Q support 100V and 200-240V power supplies.

AUTO-COLOR ADJUSTMENT

The built-in camera detects subtle color inconsistencies between multiple projectors. It detects screens that have become unevenly colored over time, allowing the projector to automatically correct color. This function can be set to check color manually or automatically at regular intervals to deliver stable image quality with minimal maintenance.



SCREW HOLES FOR EYEBOLTS

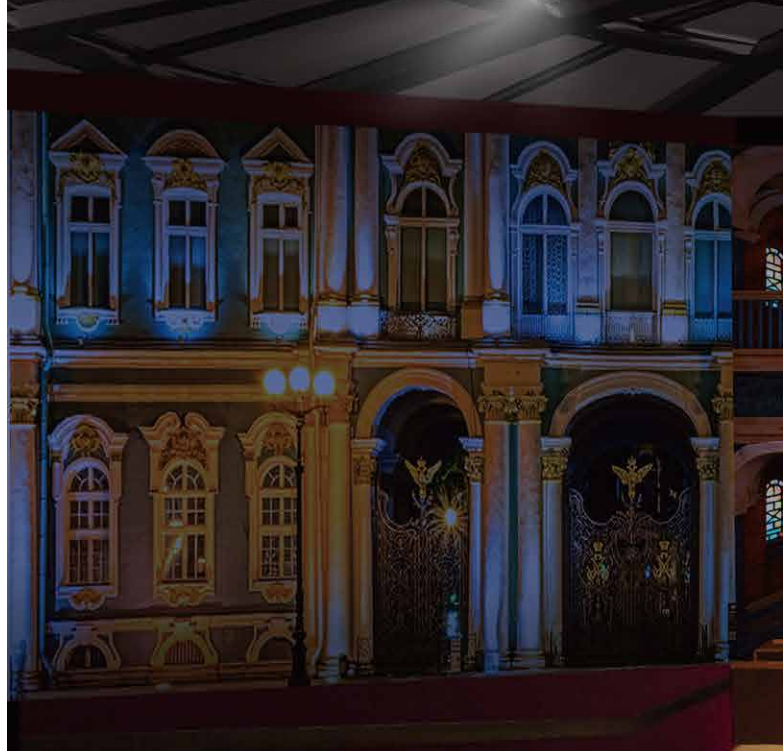
Screw holes are provided on both the top and bottom. Strong threads make it safe and easy to transport the projector via crane.



DMX-ArtNet

EB-L20000U/L12000Q supports DMX-ArtNet for synchronizing lighting effects (such as pre-programmed sequences) with audio.

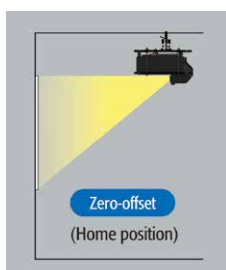
EB-L20000U / L12000Q is designed to ensure maximum installation flexibility. Thanks to a wide range of lenses, including an ultra short-throw type, you can set up in just about any venue.



ZERO OFFSET, ULTRA SHORT-THROW LENS

This lens is especially useful for environments with extremely limited lens-to-screen distances. The short throw ratio of 0.35 and the zero-offset, bending optical system enables projection onto 100-inch screens from only 41cm away. These features combine with lens shift* to simplify operation and expand usability.

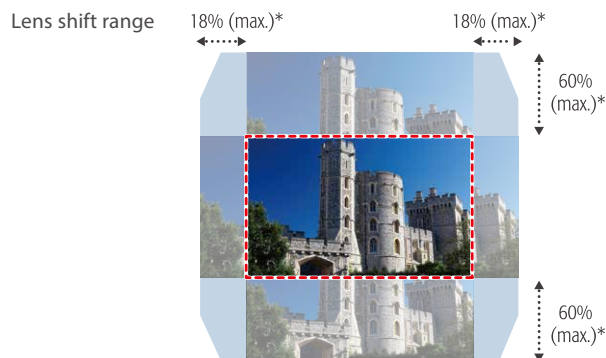
* With EB-L20000U (-5%/+20% vertically, $\pm 15\%$ horizontally). With EB-L12000Q (-5%/+8% vertically, $\pm 5\%$ horizontally).



Larger image from shorter distances, plus added installation flexibility

WIDER LENS SHIFT RANGE

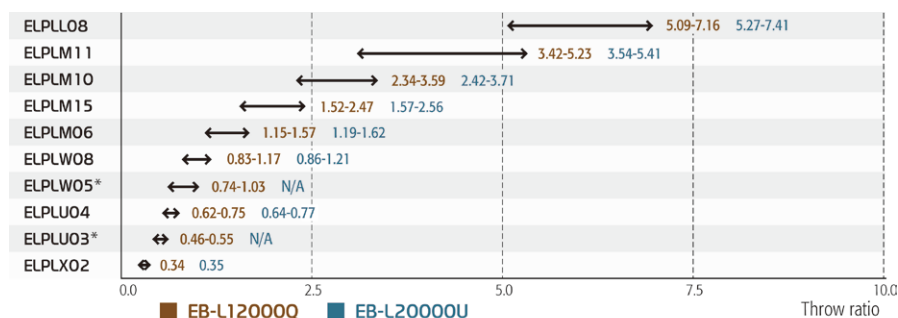
The extremely wide-ranging lens shift was realized through a change in design and careful consideration of the lens and optical engine combination. Furthermore, the adoption of an improved stepping motor for the range shift mechanism allows for more precise adjustment.



* When using the ELPLM15 lens. 58% (max.) vertically; 15% (max.) horizontally for EB-L120000.

WIDE-RANGE OF OPTICAL LENSES

All lenses are compatible with current Epson L1700 series. An extensive line up of optional lenses is available for any venue or subject.



* Only for EB-L12000Q

POWERED LENS LENS POSITION MEMORY

Up to 10 settings can be stored in the projector memory, including shift positions, focus adjustments and projection sizes.



INTERFACE SLOT FOR EXPANSION

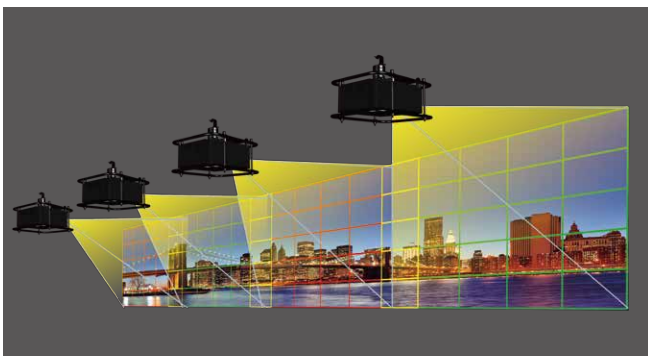
Interface slots allow for a variety of custom hardware according to your usage. Additionally, it allows for new interfaces and interface updates in the future.



ELPIF01: HDMI/DVI
ELPIF02: SDI*
ELPIF03: DisplayPort
* Only for EB-L12000Q

EPSON PROJECTOR PROFESSIONAL TOOL

Free Epson Projector Professional Tool software simplifies setup of multi-projector installations, offering intuitive geometry correction such as edge-blending and corrections for curved surfaces. The software also lets you control color-matching and brightness.



MULTIPLE INTERFACES

The LAN terminal is a robust, lockable etherCON connector for firm connections even after repeated use. Also, EB-L12000Q supports 12G SDI* to project 4K images using one cable and outputting a 12G signal from the output terminal. The optional ELPIF03 interface board has a DisplayPort connector that supports 4K – 120 Hz signals.

* Only SDI terminal 1



Model shown is the EB-L12000Q

WEB CONTROL WITH MULTI-DEVICE SUPPORT

Use a computer web browser or smart devices to adjust projector settings. The newly designed OSD Control Pad function allows control of the OSD menu and even shows a representation of the lens-condition on a smart device.

EPSON PROJECTOR MANAGEMENT

Using Epson Projector Management allows you to monitor and control multiple network connected projectors (up to 2,000 units) using a computer with easy to use GUI. A projector's power status, irregularities, warnings, etc. can all be determined visually through the use of icons or you can choose to be notified by email of any projector anomalies.

SPECIFICATIONS

Specification of Main Parts	LCD	Size					1.04-inch (D11)	1.03-inch (D11)
		Pixel Number					8,294,400 dots (3840 x 2160) x 3	2,304,000 dots (1920 x 1200) x 3
		Native Resolution					4K (3840 x 2160)	WUXGA (1920x1200)
		Aspect Ratio					16:9	16:10
	Projection Lens (ELPLM15)	Control					Power Zoom, Power Focus	Power Zoom, Power Focus
		F-Number / Focal Length					1.8 - 2.3 / 36.0 mm - 57.3 mm	1.8 - 2.3 / 36.0 mm - 57.3 mm
		Zoom Ratio					1 - 1.61	1 - 1.61
		Throw Ratio Range					1.52 - 2.47	1.57 - 2.56
		Screen Size (Projected Distance, Zoom: Wide)					60 " to 1000 " [1.98m to 34.19 m]	60 " to 1000 " [1.99m to 34.43 m]
		Screen Size (Projected Distance, Zoom: Tele)					60 " to 1000 " [3.24 m to 55.28 m]	60 " to 1000 " [3.26 m to 55.63 m]
		Lens Shift Range (Vertical / Horizontal)					±58% / ±16% (Powered)	±60% / ±18% (Powered)
		Light Source	Type					Laser Diode
LD Input Power					990 W	1188 W		
Light Source Life (Normal/Extended)					20000 hours / 30000 hours	20000 hours / 30000 hours		
					12000 lm	20000 lm		
White Light Output							12000 lm	20000 lm
Color Light Output							12000 lm	20000 lm
Contrast	Dynamic Contrast: On					Over 2,500,000:1	Over 2,500,000:1	
Light Output Uniformity							90%	90%
Color Reproduction							Up to 1.07 billion colors	Up to 1.07 billion colors
Color Processing							10 bit	10 bit
Video I/O	IN	Analog	Computer In	Mini D-sub 15p	RGB, YCbCr, RGB-Video	1	1	
			BNC In	BNC	RGB, YCbCr, RGB-Video	N/A	1	
		Digital	HDBaseT In	RJ45		1	1	
	Out	Analog	Computer/BNC Out	Mini D-sub 15p	RGB, RGB-Video	1	1	
			SDI In	BNC	SD/HD/3G	N/A	1 (BarcoLink)	
		Digital	SDI Out	BNC	Active Through	N/A	1	
Control I/O	RS-232C	D-sub 9pin				1	1	
	Remote	Stereo mini				1	1	
USB-I/O	Type A					1 (for Firmware update, Copy OSD Settings)	1 (for Firmware update, Copy OSD Settings)	
	Type B					1 (for Firmware update, Copy OSD Settings)	1 (for Firmware update, Copy OSD Settings)	
Network I/O	Wired LAN	RJ45				1 (etherCON)	1 (etherCON)	
	Wireless LAN	Built-in				1	1	
Direct Power On / Off							Yes	Yes
Start-up Period							Less than 26 seconds Warm-up period: 30 seconds	Less than 16 seconds Warm-up period: 30 seconds
Cool-down Period							Instant off or 0 second	Instant off or 0 second
Power Supply Voltage							100 - 120 V AC, 200 - 240 V AC +/- 10 %, 50/60 Hz	100 - 120 V AC, 200 - 240 V AC +/- 10 %, 50/60 Hz
Power Consumption	Light Source Mode: Normal/Custom					1741 W	1860 W	
	Light Source Mode: Extended/Eco					1030 W	1123 W	
	Standby (Communication On / Off)					2 W / 0.5W	2 W / 0.5W	
Dimension	Exclude Feet (W x H x D)					620x280x720 mm	620x280x720 mm	
Weight (Excluding Lens)						Approx. 113.1 lbs. / 51.3 kg	Approx. 109.3 lbs. / 49.6 kg	
Fan Noise	Light Source Mode: Normal / Quiet					45 dB / 38 dB	45 dB / 38 dB	

EB-L12000Q Lens List

Model	Function					F No		Zoom Ratio	Throw Raio		Lens Shift	
	Powered Zoom	Powered Focus	Powered Distortion	Position Sensor	Lens ID	Wide	Tele		Wide	Tele	Vertical	Horizontal
ELPLX02	N/A	Yes	Yes	Yes	Yes	1.9	1.9	1.0	0.34	0.34	+ 45 to 68%	±10%
ELPLU03S	Yes	Yes	Yes	Yes	Yes	2.0	2.3	1.2	0.46	0.56	±18%	±6%
ELPLU04	Yes	Yes	Yes	Yes	Yes	2.0	2.1	1.2	0.62	0.75	±58%	±16%
ELPLW05	Yes	Yes	Yes	Yes	Yes	2.0	2.2	1.4	0.74	1.04	±18%	±6%
ELPLW08	Yes	Yes	Yes	Yes	Yes	2.0	2.2	1.4	0.83	1.17	±58%	±16%
ELPLW06	Yes	Yes	N/A	Yes	Yes	1.8	2.3	1.4	1.15	1.57	±58%	±16%
ELPLM15	Yes	Yes	N/A	Yes	Yes	1.8	2.3	1.6	1.52	2.47	±58%	±16%
ELPLM10	Yes	Yes	N/A	Yes	Yes	1.8	2.4	1.5	2.34	3.59	±58%	±16%
ELPLM11	Yes	Yes	N/A	Yes	Yes	1.8	2.4	1.5	3.42	5.23	±58%	±16%
ELPLL08	Yes	Yes	N/A	Yes	Yes	1.8	2.5	1.4	5.09	7.16	±58%	±16%

EB-L20000U Lens List


Model	Function					F No		Zoom Ratio	Throw Raio		Lens Shift	
	Powered Zoom	Powered Focus	Powered Distortion	Position Sensor	Lens ID	Wide	Tele		Wide	Tele	Vertical	Horizontal
ELPLX02	N/A	Yes	Yes	Yes	Yes	1.9	1.9	1.0	0.35	0.35	+ 45 to 70%	±15%
ELPLU04	Yes	Yes	Yes	Yes	Yes	2.0	2.1	1.2	0.64	0.77	±60%	±18%
ELPLW08	Yes	Yes	Yes	Yes	Yes	2.0	2.2	1.4	0.86	1.21	±60%	±18%
ELPLW06	Yes	Yes	N/A	Yes	Yes	1.8	2.3	1.4	1.19	1.62	±60%	±18%
ELPLM15	Yes	Yes	N/A	Yes	Yes	1.8	2.3	1.6	1.57	2.56	±60%	±18%
ELPLM10	Yes	Yes	N/A	Yes	Yes	1.8	2.4	1.5	2.42	3.71	±60%	±18%
ELPLM11	Yes	Yes	N/A	Yes	Yes	1.8	2.4	1.5	3.54	5.41	±60%	±18%
ELPLL08	Yes	Yes	N/A	Yes	Yes	1.8	2.5	1.4	5.27	7.41	±60%	±18%

Optional Accessories

Model			EB-L12000Q	EB-L20000U
Air Filter Set			ELPAF58	
Ceiling Mount			ELPMB47 / ELPMB48	
HDBaseT Transmitter			ELPHD01 (Up to WUXGA)	
Interface Board	Interface board HDMI/DVI-D	ELPIF01	Yes	Yes
	Interface board SDI	ELPIF02	Yes	N/A
	Interface board DisplayPort	ELPIF03	Yes	Yes

Supplied Accessories

Quick Start Guide Printed
Owner's Manual CD ROM
Safety and Support Guide CD ROM
Remote Control
Battery for Remote Control
Lens Connector Cap
Power Cable



2 Year Onsite Warranty Service to be provided for local purchase only.
#The warranty service can be extended by purchasing Epson Coverplus Extended Warranty. For more information, please contact Epson customer support.
For Standard warranty terms & conditions, please refer to <https://www3.epson.com.hk/eservice/tcs.html>

Bold, Bright, Beautiful...3LCD Technology

3LCD technology achieves bright, natural images and smooth, sharp video playback. No color break-up makes images gentle on the eyes.



Optical unit with high light-use efficiency