

November 2019

Epson EB-L20000UNL and EB-L12000QNL

Powerful High Brightness Laser Projectors



For further information please visit www.channel.epson.com.au



KEY FEATURES:

- **Laser Light Source** - Experience astonishing quality and reliability
- **Up to 3x Brighter Colours and Reliable Performance*** - 3LCD, 3-chip technology
- **NEW 4K Native Resolution¹** - See more detail and sharpness with a native 4K panel
- **NEW 20,000 Lumens²** - Deliver captivating images in virtually any venue
- **Triple-Layer Dustproof Structure** – Protects the light source and optical elements from external dust for extra durability
- **Total Liquid Cooling System** – Efficiently dissipates internally generated heat for enhanced installation flexibility and performance reliability
- **Interchangeable Interface Slot** – Accommodates a variety of connectivity which allows custom solutions to individual needs
- **Auto-Colour Adjustment** – Edge blend with multiple screens with seamless colour expression
- **Tiling Assist** – Set up multiple projectors with ease via the professional tool with minimal hassle
- **Screw Holes for Eyebolts** – Securely position the projector for installation and transportation
- **Epson Projector Professional Tool** – Efficiently setup multiple projectors straight out of the box with new large venue application software
- **Ten Optional Lenses³** - Choose the ideal powered lens for your venue from a wide range including ultra-short throw and long throw
- **5 Year Projector Warranty⁴** - A class leading 20,000 hour or 5 year warranty

**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 PMA Research sales data for Dec.2015 through Nov.2016.*

¹ Only on EB-L12000QNL

² Only on EB-L20000UNL

³ Please refer to lens compatibility chart

⁴ Whichever comes first



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*. All Epson projectors list both White Brightness and Colour Brightness specifications, and all have high Colour Brightness.

*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 PMA Research sales data for Dec.2015 through Nov.2016.

Laser Light Source

Experience astonishing quality and reliability with Epson's new laser light source. The newly designed laser light source and advanced electrostatic filter deliver 20,000 hours of maintenance-free use and consistent performance for total peace of mind during important presentations.

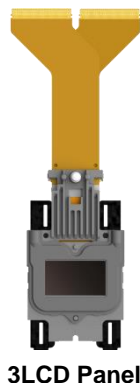


Native 4K Panel¹



Our own 1.03-inch, native 4K panel delivers 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.

¹Native 4K panel is only available in EB-L12000QNL model



3LCD Panel



For further information please visit www.channel.epson.com.au



20,000 lumens

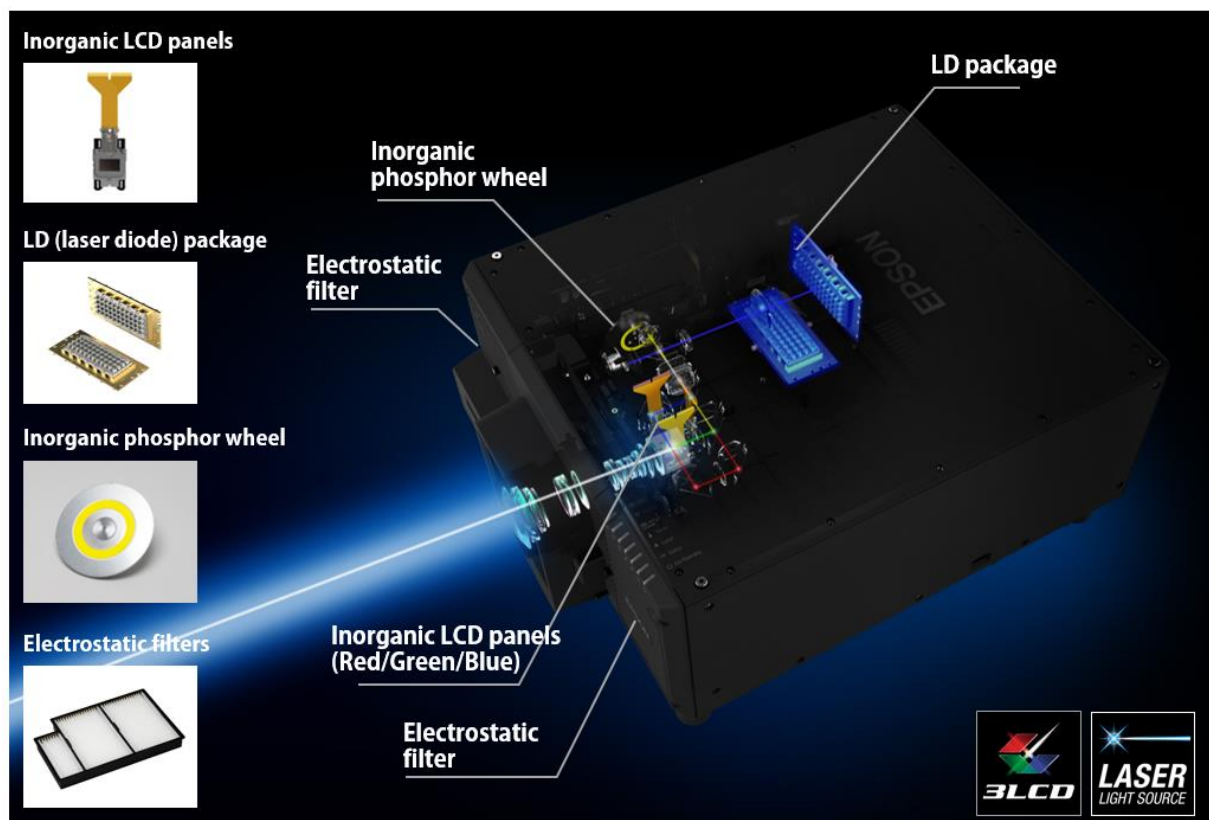
Powered by 3LCD technology and Epson's laser optical engine, the EB-L20000UNL is capable of producing white light and colour light output of 20,000 lumens in WUXGA resolution, delivering captivating images in virtually any venue.

The laser light source also lets you take control of brightness with precise adjustment in increments of 1% and a constant brightness mode that maintains brightness at a specified level.



Inorganic Components

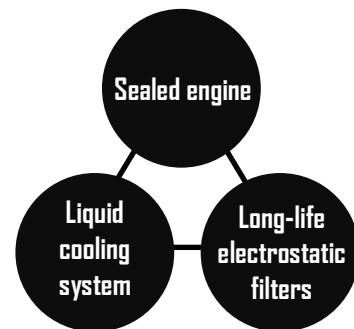
Epson's newly developed phosphor wheel is made of inorganic material with superior light and heat-resistance to deliver excellent reliability. We've also developed inorganic LCD panels – a key component of imaging devices. Combining an inorganic phosphor wheel with inorganic LCD panels in a laser projector,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



ADVANCED DURABILITY

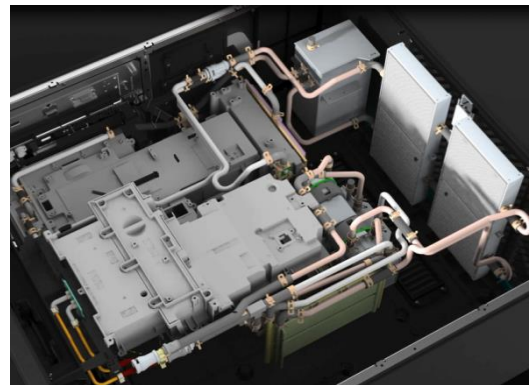
Triple-Layer Dustproof Structure

EB-L20000UNL and EB-L12000QNL have three layers of protection for excellent durability and dust-resistance. The light source and optical elements are both sealed, and the newly developed liquid cooling system splits airflow while reducing incoming air to the optical engine by 86%* compared to conventional models. In addition, replaceable electrostatic filters cut dust intake to miniscule levels up to 20,000 hours.



Sealed Optical Engine

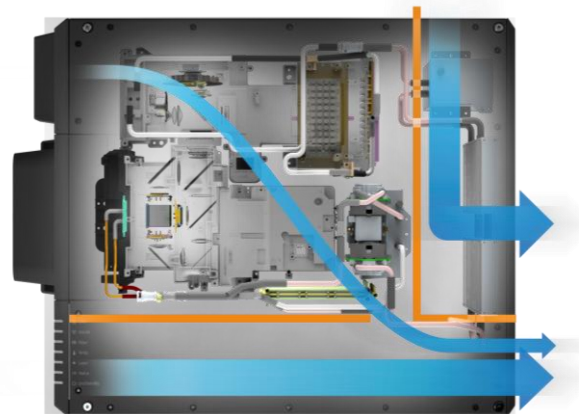
Key optical components, including the inorganic panel, inorganic phosphor wheel and laser bank are sealed to prevent contamination by dust or smoke.



86%* Reduced Airflow and Sealed Engine

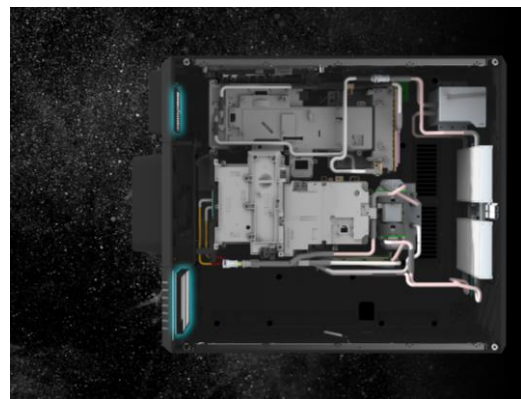
The cooling system takes in air independently for both the radiator and power supply. This reduces airflow to the optical engine by 86%* compared to conventional models.

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

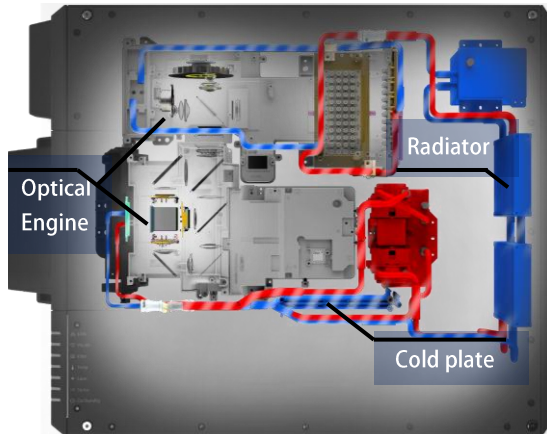


Long-Life, Replaceable Electrostatic Filters

Electrostatic filters give you 20,000 hours of use and vastly reduce incoming dust impairing optical components.

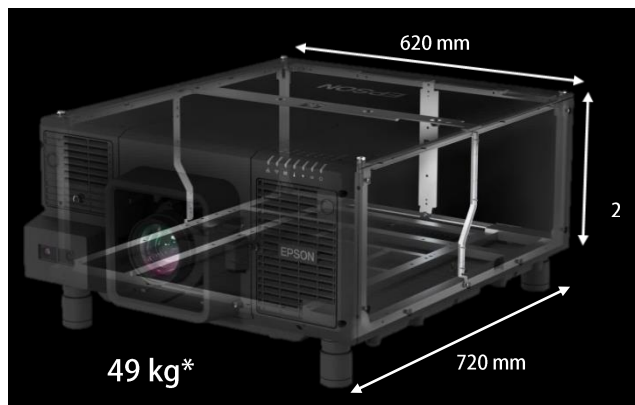


Total Liquid Cooling System



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

Compact and Robust Body



The adoption of a pipe frame and baseplate structure has greatly improved the durability of the casing. By redesigning in the internal structure, the EB-L20000UNL and EB-L12000QNL have achieved a compact and lightweight design for easy installation.

**Weight of EB-L20000UNL model*

***Height measured excluding feet. For full dimension, please refer to product specification.*

ADVANCED INSTALLATION FEATURES

Interchangeable Interface Slot

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 (EB-L12000QNL only)

ELPIF03: Display port



Multiple Interfaces

The LAN terminal is a robust, lockable etherCON connector for firm connections even after repeated use. Also, the EB-L12000QNL 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.



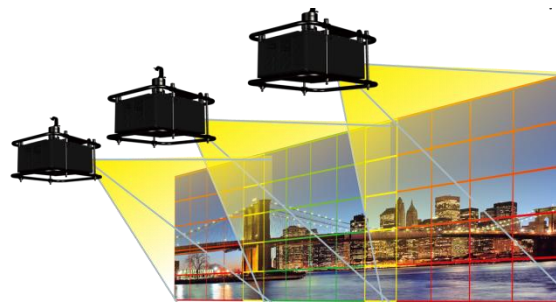
**Only available on SDI terminal 1*

DMX-ArtNet

EB-L20000UNL and EB-L12000QNL supports DMX-ArtNet for synchronizing lighting effects (such as pre-programmed sequences) with audio.

Auto-Colour Adjustment

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



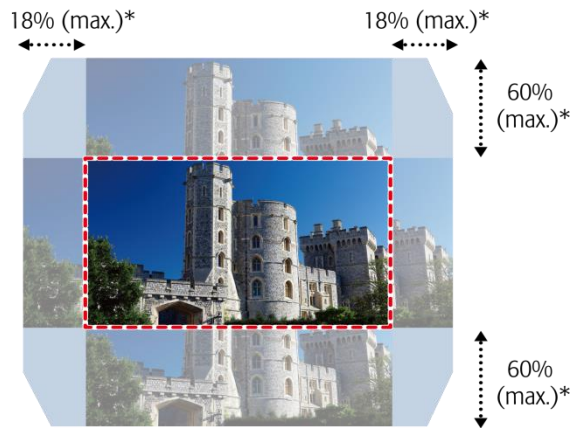
Tiling Assist

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



Powered Lens Shift, Zoom and Focus

The motorised lens shift covers a wide range, giving you a great deal of flexibility when installing the projector. A newly adopted stepping motor lets you make highly precise adjustments when employing edge blending, stacking and other techniques. Adjustments can be made via remote control or over a network, enhancing usability even for ceiling-mounted projectors.



* When using the ELPLM15 lens

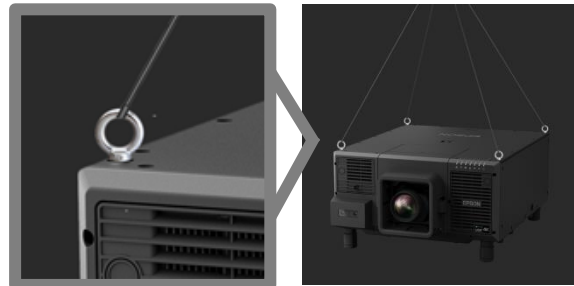
* 58% (max.) vertically; 15% (max.) horizontally for EB-L12000Q

Multi-Directional Projection

EB-L20000UNL and EB-L12000QNL can be rotated 360° in any direction - horizontally, vertically and rotationally - without any loss in image brightness.

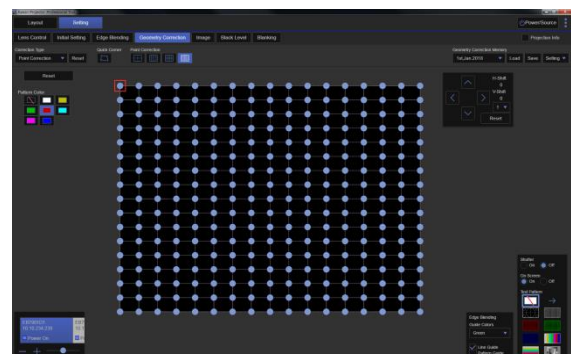
Screw Holes for Eyebolts

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



Epson Projector Professional Tool

Exclusively bundled to Epson L-Series projectors, Epson Projector Professional Tool software helps simplify setup of multi-projector installations. Offering intuitive geometry correction such as edge-blending and corrections for curved surfaces, large scale presenting has become much easier and flexible. The software also lets you control colour-matching and brightness.



Simple control

Use features such as EPSON Projector Management software to monitor and control projectors, with fleet control across a network or on a web browser to keep track of up to 2,000 projectors. The latest models feature a newly designed OSD Control Pad function that shows a representation of lens conditions on a smart device.

Ten Optional Lenses

For added flexibility, the EB-L20000UNL and EB-L12000QNL offers a total of ten lenses, including middle, wide, long, short and ultra-short throw that allow users to choose the lens most suited for their environment. A quick-release lever allows for a fast, easy lens exchange.



Ultra-Short Throw Lens



The ELPLX02 is an UST lens to accommodate high brightness Epson laser projector models ranging from 12klm to 20klm. This produces images in 16:10 aspect ratio from 100 inches to a massive 1000 inches at a throw distance of 0.74m - 7.69m respectively and has lens shift of +25% vertical and +/- 15% horizontally for added flexibility.

5 Year Warranty*

Experience complete peace of mind with the 20,000 hours or 5 year warranty (whichever comes first). This ensures reliable long-term performance and gives you the freedom to concentrate on your presentations.

*Warranted for 5 years or 20,000 hours, whichever occurs first, see www.epson.com.au for full warranty terms and conditions.

PRODUCT CODES AND PRICING

Projectors

PRODUCT CODE	DESCRIPTION	RRP (INC GST)
V11H833853	EB-L20000UNL	\$110,000
V11H832853	EB-L12000QNL	\$149,000

Lens

PRODUCT CODE	DESCRIPTION	RRP (INC GST)
V12H004X02	ELPLX02 Ultra Short Throw Zoom Lens	\$13,719
V12H004UA3*	ELPLU03S* Short Throw Lens 1 NEW	\$3,899
V12H004U04	ELPLU04 Short Throw Lens 2	\$3,699
V12H004M0A	ELPLM10 Middle Throw Zoom Lens 3	\$2,099
V12H004M0B	ELPLM11 Middle Throw Zoom Lens 4	\$2,099
V12H004M0F	ELPLM15 Middle Throw Zoom Lens	\$2,099
V12H004W05**	ELPLW05** Wide Throw Zoom Lens 1	\$2,099
V12H004W06	ELPLW06 Wide Throw Zoom Lens 2	\$4,399
V12H004W08	ELPLW08 Wide Throw Zoom Lens 3	\$12,683
V12H004L08	ELPLL08 Long Throw Zoom Lens	\$4,399

* ELPLU03S lens is available from December 2019

** ELPLW05 lens is not compatible with EB-L20000UNL

Accessories

PRODUCT CODE	DESCRIPTION	RRP (INC GST)
V13H134A58	ELPAF58 Replacement Filter NEW	\$499
V12H547053	HDBaseT Transmitter	\$399
V12H802010	ELPMB47 Low Profile Ceiling Mount	\$399
V12H803010	ELPMB48 Standard Ceiling Mount	\$499

Interchangeable Connectivity Panel

PRODUCT CODE	DESCRIPTION	RRP (INC GST)
V12H917F01	ELPIF01 HDMI/DVD-D board NEW	\$1,999
V12H918F01*	ELPIF02*** SDI board NEW	\$12,299
V12H916F01	ELPIF03 Display port board NEW	\$4,099

*** ELPIF02 is not compatible with EB-L20000UNL

MODEL OVERVIEW

Model	EB-L1755UNL	NEW EB-L12000QNL	NEW EB-L20000UNL
Case Colour	Black	Black	Black
White Light Output	15,000 lms	12,000 lms	20,000 lms
Colour Light Output			
Display Technology	3LCD	3LCD	3LCD
Native Resolution	WUXGA (1920 x 1200)	4K (3840 x 2160)	WUXGA (1920 x 1200)
Aspect Ratio	16:10	16:9	16:10
Contrast Ratio	2,500,000:1	2,500,000:1	2,500,000:1
Keystone	V $\pm 45^\circ$ H $\pm 30^\circ$	V $\pm 45^\circ$ H $\pm 30^\circ$	V $\pm 44^\circ$ H $\pm 30^\circ$
Lens Shift (Powered)	V $\pm 60\%$ H $\pm 18\%$	V $\pm 58\%$ H $\pm 15\%$	V $\pm 60\%$ H $\pm 18\%$
Zoom Ratio	1 - 1.61	1 - 1.61	1 - 1.61
Wireless LAN	Optional	Built-in	Built-in
Edge Blending	✓	✓	✓
Professional tool	✓	✓	✓
Frame Interpolation	✓	✗	✓
Connectivity	HDBaseT, BNC in, HDMI in, DVI in, VGA out, VGA in, Ethernet interface (100 Base-TX / 10 Base-T), RS-232C, USB 2.0 Type B (Service Only), HD-SDI, Art-Net	HDBaseT, VGA out, VGA in, Ethernet interface, (100 Base-TX / Lockable etherCON 10 Base-T), RS-232C, USB 2.0 Type B (Service Only), Art-Net, HDMI/DVI*, Display port*, 12G SDI*†, Stereo mini (remote control) (*Available as optional interchangeable interfaces, †only compatible with EB-L12000QNL)	HDBaseT, BNC in, VGA out, VGA in, Ethernet interface, (100 Base-TX / Lockable etherCON 10 Base-T), RS-232C, USB 2.0 Type B (Service Only), Art-Net, HDMI/DVI*, Display port*, HD-SDI, Stereo mini (remote control) (*Available as optional interchangeable interfaces)
AMX Device Discovery, Extron IP Link, Extron XTP, Crestron Integrated Partner	✓	✓	✓
Fully sealed optical system	✗	✓	✓
Interchangeable interfaces	✗	✓	✓
Noise level (dB) (Quiet/Normal)	30/40	38/45	38/45
Optional Lenses ¹	10	10	9
Dimensions excluding feet (D x W x H mm)	492 x 586 x 185	790 x 620 x 280	790 x 620 x 280
Dimensions Including feet (D x W x H mm)	492 x 586 x 211	790 x 620 x 358.5	790 x 620 x 358.5
Weight excluding lens (Kg)	22.3	51.3kg	49.6kg
Power (Standby/On)	2W/1024W	2W/1741W	2W/1860W
Required power supply	15A	15A	15A
Warranty (Projector)	5 Years or 20,000hrs ²	5 Years or 20,000hrs ²	5 Years or 20,000hrs ²

¹Please refer to lens compatibility chart

²Whichever comes first

Lens Compatibility Chart

Lens	Description	Zoom Ratio	L1755U Throw Ratio	L12000Q Throw Ratio	L20000U Throw Ratio
ELPLX02	Ultra Short Throw Lens 2	-	0.35	0.34	0.35
ELPLU03*	Short Throw Lens 1	1 - 1.2	0.47 - 0.57	NA	NA
ELPLU03S	Short Throw Lens 1 NEW	1 - 1.2	0.65 - 0.78	0.46 - 0.56	0.48 - 0.57
ELPLU04	Short Throw Lens 2	1 - 1.2	0.64 - 0.77	0.62 - 0.75	0.64 - 0.77
ELPLM10	Middle Throw Lens 3	1 - 1.5	2.42 - 3.71	2.34 - 3.59	2.42 - 3.71
ELPLM11	Middle Throw Lens 4	1 - 1.5	3.54 - 5.41	3.42 - 5.23	3.52 - 5.41
ELPLM15	Middle Throw Lens 5	1 - 1.6	1.57 - 2.56	1.52 - 2.47	1.57 - 2.56
ELPLW05**	Wide Throw Lens 1	1 - 1.4	0.76 - 1.12	0.74 - 1.04	NA
ELPLW06	Wide Throw Lens 2	1 - 1.4	1.19 - 1.62	1.15 - 1.57	1.19 - 1.62
ELPLW08	Wide Throw Lens 3	1 - 1.4	0.86 - 1.21	0.83 - 1.17	0.86 - 1.21
ELPLL08	Long Throw Lens	1 - 1.4	5.27 - 7.41	5.09 - 7.16	5.27 - 7.41

**ELPLU03 lens is not compatible with EB-L20000UNL and EB-L12000QNL*

***ELPLW05 lens is not compatible with EB-L20000UNL*

INTERCHANGEABLE INTERFACE BOARD - OPTIONAL

ELPIF01



Terminal	Port	EB-L12000Q	EB-L20000U
DVI-D	IN:1	Single Link / Up to WUXGA	←
HDMI	IN:1	18Gbps / Up to 4K 60Hz RGB:8bit	10.2Gbps / Up to 4K 60Hz YCbCr 4:2:0
DC Out	IN:1	5V 500mA for extension cable which needs external power	

ELPIF02



Terminal	Port	EB-L12000Q	EB-L20000U
SDI	IN:4 OUT:4	SD/HD/3G/12G* Single Link or Quad Link Up to 4Kx60Hz YCbCr 4:2:2	N/A

*SDI 1 terminal only

*SDI board for Slot 1 & Slot 2 cannot be used at the same time

ELPIF03



Terminal	Port	EB-L12000Q	EB-L20000U
Display Port	IN:2	32.4Gbps / Up to 4K 120Hz RGB:4:4:4*	10.2Gbps / Up to 4K 60Hz YCbCr 4:2:0

*Dual Link

	EB-L12000QNL	EB-L20000UNL
ELPIF01	Included at initial purchase. Available as an option to purchase for additional interface configuration	Included at initial purchase. Available as an option to purchase for additional interface configuration
ELPIF02	Included at initial purchase. Available as an option to purchase for additional interface configuration	N/A
ELPIF03	Available as an option to purchase	Available as an option to purchase

CONNECTIVITY PANEL

EB-L12000QNL



EB-L20000UNL

