Epson Projector Range

Bekafun   Epson night 2023

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High Brightness Range

Laser

EB-PU2000 Series

EB-PU1000 Series

EB-PU22xx Series

NEW

EB-PU21xx Series

EB-L30000U

Options

6Klm/10Klm	13Klm/20Klm	30Klm

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Model numbering system

EB-PU2010W
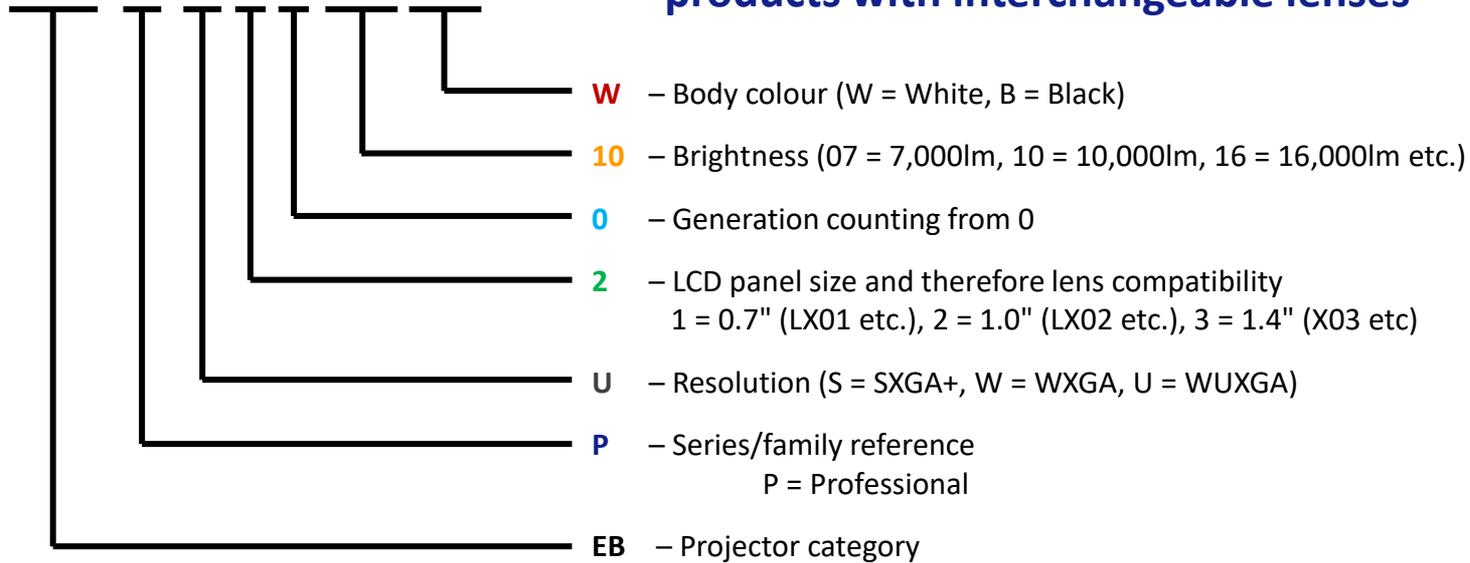
The new model numbering system applies to products with interchangeable lenses

W – Body colour (W = White, B = Black)

10 – Brightness (07 = 7,000lm, 10 = 10,000lm, 16 = 16,000lm etc.)

0 – Generation counting from 0

2 – LCD panel size and therefore lens compatibility
1 = 0.7" (LX01 etc.), 2 = 1.0" (LX02 etc.), 3 = 1.4" (X03 etc)

U – Resolution (S = SXGA+, W = WXGA, U = WUXGA)

P – Series/family reference
P = Professional

EB – Projector category

(EB = Epson Business, EH = Epson Home, EF = Epson Fun)

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Signage & Fixed Lens Range

Laser

Lamp

EV-105 EV-115

EB-L250F EB-L255F

EB-U50

EB-800F EB-805F

EB-750F EB-755F

EB-L730U/735U

EB-L630SU/L635SU

EB-L530U EB-L630U

Signage	Signage Ultra Short Throw (UST)	Installation

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Fixed Lens Range
L700 Series

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L700 series

- Up to 7,000lm white and colour light output
- 1.35 – 2.2:1 throw ratio
- 1.6x zoom
- 4K input support
- HDMI output
- Wi-Fi and Miracast across all models
- Super resolution, detail enhancement and auto gamma correction
- Edge blending & EPPT support
- Built-in media player – with network content upload
- Supports ELPWP10 – Epson Wireless Presentation System

Short throw models:
- 6,000lm white and colour light output
- 0.8:1 throw ratio
- Wide lens shift
- 1.35x digital zoom

EB-700 Line up specifications

	EB-L530U	EB-L630U	EB-L730U EB-L735U	EB-L630SU EB-L635SU
Brightness	5,200lm	6,200lm	7,000lm	6,000lm
Light source	Laser	Laser	Laser	Laser
Throw ratio	1.35 – 2.2:1	1.35 – 2.2:1	1.35 – 2.2:1	0.8:1
Optical zoom	1.6x	1.6x	1.6x	-
Vertical lens shift	±50%	±50%	±50%	±50%
Horizontal lens shift	±20%	±20%	±20%	±20%
Max. screen size	500 inches	500 inches	500 inches	200 inches
4K support	HDMI HDBaseT	HDMI HDBaseT	HDMI HDBaseT	HDMI HDBaseT
Wireless functions	Wi-Fi (5GHz) Miracast	Wi-Fi (5GHz) Miracast	Wi-Fi (5GHz) Miracast	Wi-Fi (5GHz) Miracast
Connectivity	2x HDMI in, 1x HDMI out 1x HDBaseT 2x VGA in, 1x VGA out 2x audio in, 1x audio out LAN, RS-232 2x USB	2x HDMI in, 1x HDMI out 1x HDBaseT 2x VGA in, 1x VGA out 2x audio in, 1x audio out LAN, RS-232 2x USB	2x HDMI in, 1x HDMI out 1x HDBaseT 2x VGA in, 1x VGA out 2x audio in, 1x audio out LAN, RS-232 2x USB	2x HDMI in, 1x HDMI out 1x HDBaseT 2x VGA in, 1x VGA out 2x audio in, 1x audio out LAN, RS-232 2x USB
Content Player	✓	✓	✓	✓

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Connectivity

USB-B (Service)

HDBaseT

USB-A

LAN RJ45

HDMI in

HDMI out

USB-A (2A)

Wireless & Miracast

Control panel

Power

VGA in

Audio in

RS-232C

Audio out

VGA in/out
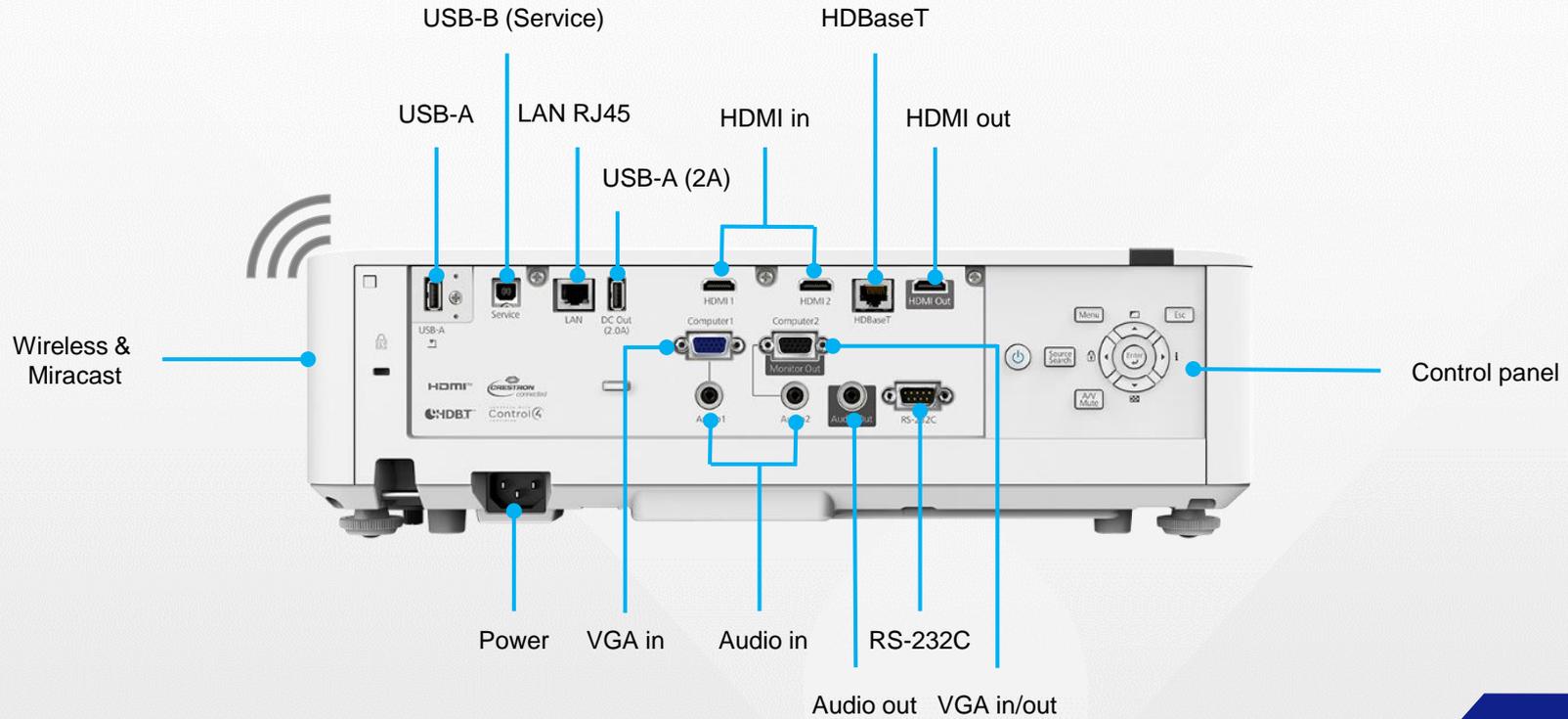
Features

Brightness

5,200lm, 6,200lm and 7,000lm models

4K input support

Reduce cabling and carry signal over long distances

Multi Projection

HDMI out and Edge Blending features built-in

Wireless, Miracast and WPS compatibility

EPPT support

Advanced geometric control and multi-projector management
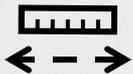
Short throw models

0.8:1 throw ratio with lens shift

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Split Screen

- Supports 4 inputs
- Easily share up to four connected devices simultaneously on the big screen

	L735U L730U	L720U	L630U	L530U	L520U	L630SU L635SU
Two-way split screen	Yes	Yes	Yes	Yes	Yes	Yes
Four-way split screens	Yes	Yes	Yes	Yes	Yes	Yes

Split screen function displays up to 4 inputs simultaneously

Two-way split screen limitations

	HDMI1	HDMI2	HD BaseT	Computer1	Computer2	Screen Mirroring1	Screen Mirroring2	USB	LAN
HDMI1		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HDMI2	Yes		N/A	Yes	Yes	Yes	Yes	Yes	Yes
HD BaseT	Yes	N/A		Yes	Yes	Yes	Yes	Yes	Yes
Computer1	Yes	Yes	Yes		N/A	Yes	Yes	Yes	Yes
Computer2	Yes	Yes	Yes	N/A		Yes	Yes	Yes	Yes
Screen Mirroring1	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Screen Mirroring2	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
USB	Yes	Yes	Yes	Yes	Yes	Yes	Yes		N/A
LAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	

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HDMI-Out – User Scenarios

- Any input source can be output using HDMI-Out
- Low latency
- Output the image to external source:
  - VC system
  - Other projectors for additional displays
  - Edge blend

HDMI

HDMI

HDMI

HDMI

OR

OR

Annual Results

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HDMI Out - Multi-Projection

Edge blend up to 4x projectors with HDMI-Out
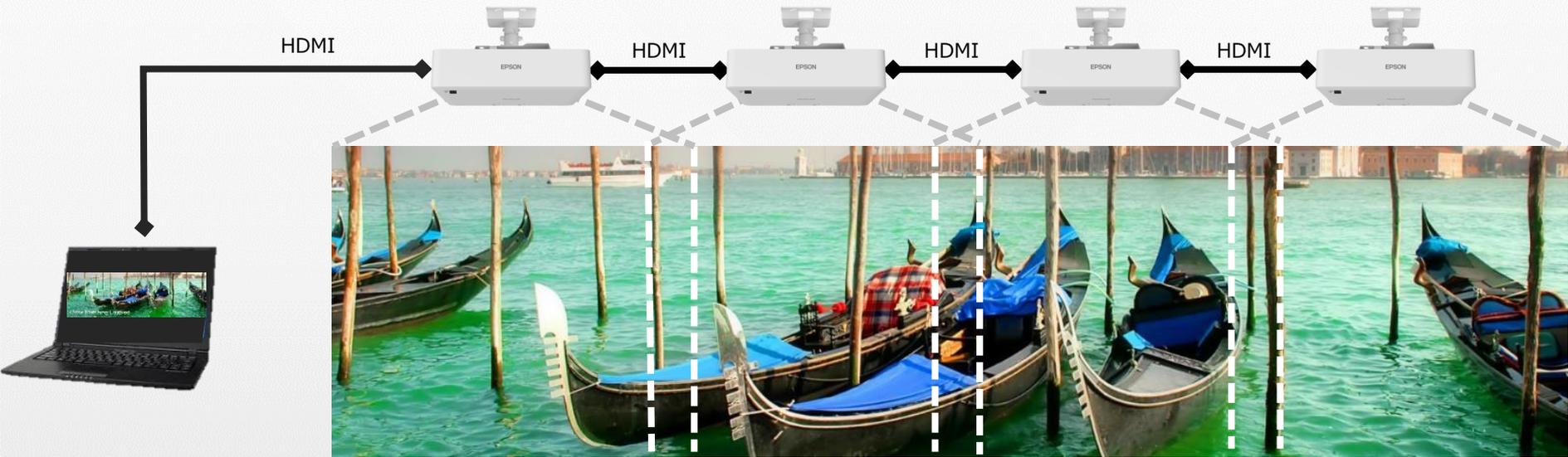
Multi-Projection Features
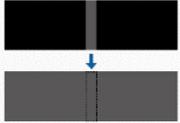
Black level adjustment

Projector ID

Colour uniformity adjustment
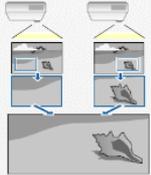
Scaling
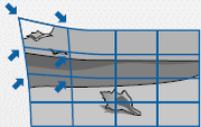
Point correction

Arc correction

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Interchangeable Lens Range

PU1000 Series

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PU1000 series

- Up to 10,000lm white and colour light output
- 4K enhancement and HDR
- No lens - optional lenses supported
- Built-in simple stacking (requires ELPEC01)
- SDI in / out (PU2010 only)
- NFC – new EPCT app supported
- EPPT supported
- Built-in media player – now with network content upload

Options:
- ELPEC01 Camera
- ELPAF63 External Air Filter

PU1000 Line-up specifications

	EB-PU1006W	EB-PU1007W EB-PU1007B	EB-PU1008W EB-PU1008B	EB-PU2010W EB-PU2010B
Brightness	6,000lm	7,000lm	8,500lm	10,000lm
Light source	Laser	Laser	Laser	Laser
Throw ratio range	0.35 – 10.11:1	0.35 – 10.11:1	0.35 – 10.11:1	0.35 – 7.41:1
Vertical lens shift (maximum) Horizontal lens shift (maximum)	±67% ±30%	±67% ±30%	±67% ±30%	±60% ±18%
Max. screen size	1000 inches	1000 inches	1000 inches	1000 inches
4K enhancement and HDR	Yes	Yes	Yes	Yes
PC-free stacking assistance Epson Projector Professional Tool	Yes	Yes	Yes	Yes
NFC	Yes	Yes	Yes	Yes
Built-in media player	Yes	Yes	Yes	Yes
Size (W x H x D) [mm]	545 x 189 x 436	545 x 189 x 436	545 x 189 x 436	545 x 189 x 436
Weight	15.4kg	16.3kg	16.3kg	16.8kg
Connectivity	1x HDMI, 1x HDBaseT 1x DVI-D, 1x VGA in 1x audio out LAN, RS-232, USB Remote	1x HDMI, 1x HDBaseT 1x DVI-D, 1x VGA in 1x audio out LAN, RS-232, USB Remote	1x HDMI, 1x HDBaseT 1x DVI-D, 1x VGA in 1x audio out LAN, RS-232, USB Remote	1x HDMI, 1x HDBaseT 1x DVI-D, 1x VGA in 1x SDI in / out 1x audio out LAN, RS-232, USB Remote

Specifications vary by lens. Lens not included.

Connectivity

HDBaseT

USB-A (2A)

LAN RJ45

HDMI in

SDI in/out*

DVI in

Optional wireless
with ELPAP11

NFC tag

Power

VGA in

RS-232C

Control panel

Audio out

USB-B (Service)
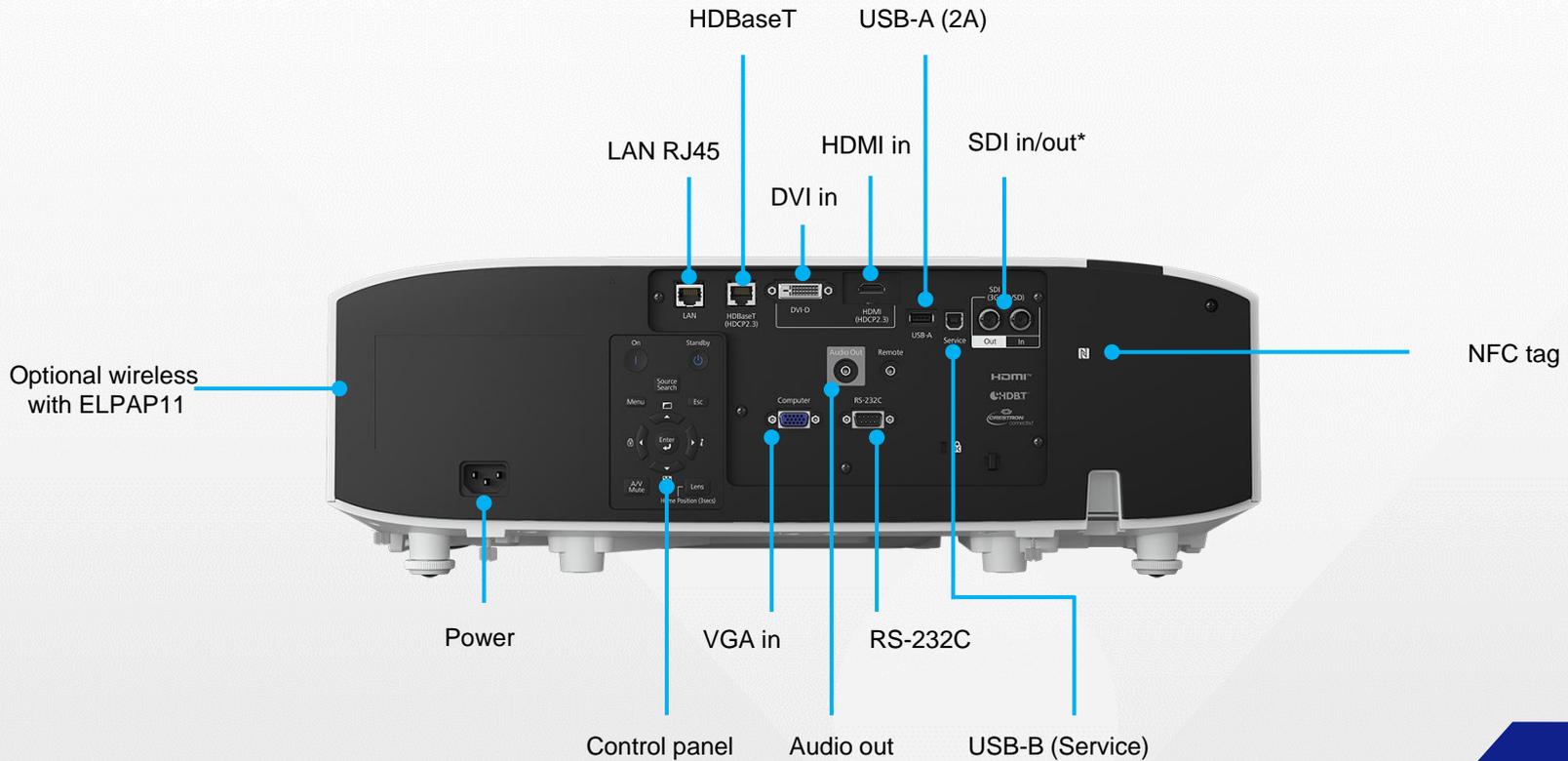
Model shown is EB-PU2010W
*SDI in/out is only available on PU2010 models

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Key Features

Brightness in a Compact and Lightweight Chassis

6,000lm, 7,000lm, 8,500lm and 10,000lm models

External Camera Module

Enable assistance for stacking, tiling and colour calibration

NFC and Configuration App

Easily configure a projector fleet for multi-projector installs

Wide Range of Optional Lenses

Uses Epson's existing lens range, including UST lens

EPPT support

Advanced geometric control and multi-projector management
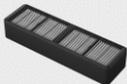
External Air Filter

Extend maintenance cycle

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ELPAF63 – External Air Filter

Extend the PU1000 Series maintenance cycle, even in high dust environments with the ELPAF63 External Air Filter

- ✓ Provides the same level of dust protection as a sealed optical engine
- ✓ Designed for high-dust environments

Dustproof performance in high dust environment

PU1000 Series
with ELPAF63

PU1000 Series

Brightness retention

Usage time

According to Epson internal acceleration test

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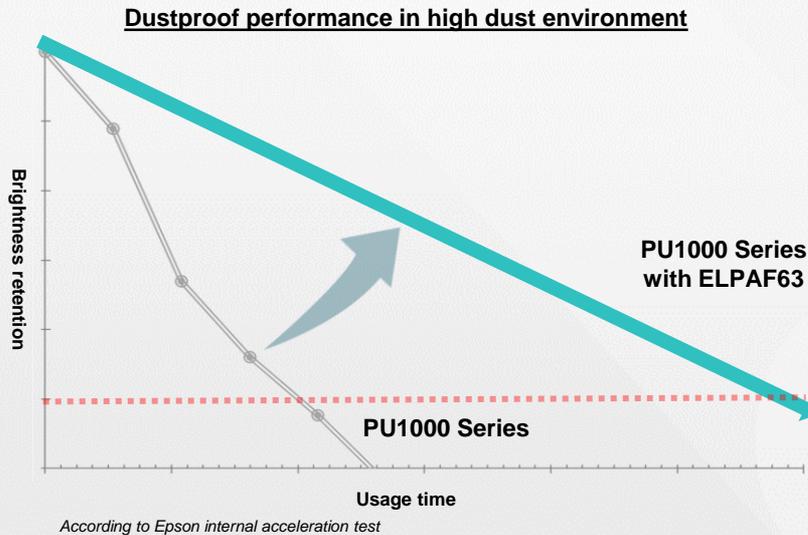
The world's **smallest** 20,000lm projector[1]

60% smaller than previous model size

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The world's **lightest** 20,000lm projector[1]

Two person lift to one person lift
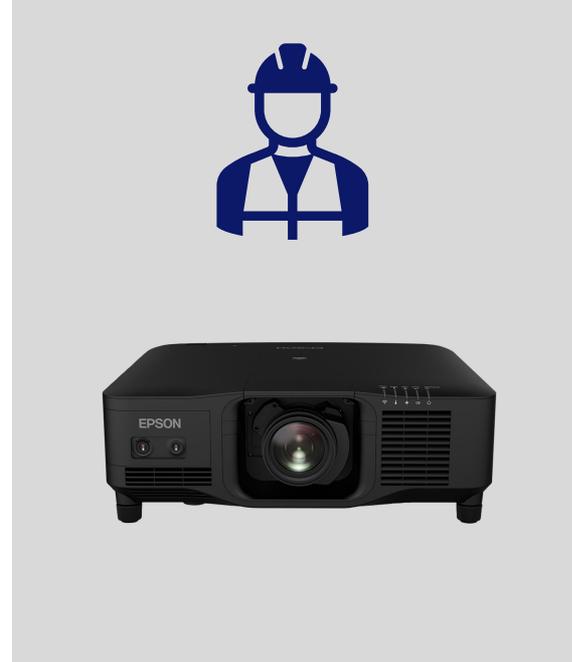
1 As of January 2022. Main unit without lens. 20,000lm in accordance with ISO 21118.

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Basic specification

Model name	PU2220B	PU2216B	PU2213B	PU2120W	PU2116W	PU2113W
Light source	Laser					
Body colour	Black			White		
Resolution	WXUGA					
Brightness (lumens)	**20,000**	**16,000**	**13,000**	**20,000**	**16,000**	**13,000**
Panel size (inch)	1.0					
Dynamic contrast	Over 2,500,000:1					
Native contrast	Reference value 2,000:1					
Mechanical shutter	**Yes**			N/A		
4K Enhancement	Yes					
Weight (excl. lens) kg	Approx. 24.4	Approx. 24.2	Approx. 23.7	Approx. 24.4	Approx. 24.3	Approx. 23.8
Dimension (mm) Exclude feet (W x H x D)	586 x 185 x 492					
SDI (3G) Input	Yes			N/A		
SDI (3G) Output	**Yes**			N/A		
NFC tag	**Yes**					
Simple stacking	Yes*					
Filter maintenance cycle	Filter-less					
Power Consumption (Normal/Eco)	1301W / 899W	1083W / 773W	864W / 633W	1301W / 899W	1083W / 773W	864W / 633W
Fan noise (Normal/Eco/Quiet)	45 dB/37 dB	38 dB/34 dB	34 dB/29 dB	45 dB/37 dB	38 dB/34 dB	34 dB/29 dB

*Regarding simple stacking, optional camera (ELPEC01) is required for PU2220B Series.

Easy installation due to smaller size and lighter weight

Same brightness but **-60% smaller and - 50% lighter** vs L20000U

Same brightness but **- 5 4 % smaller and - 5 0 % lighter** vs RZ21K

L20000U		**PU2220B**		RZ21K
20,000lm		**20,000lm**		20,000lm
620 x 280 x 720mm 124,992cm^3	Around **-60%** →	**586 x 185 x 492mm 53,338cm^3**	← Around **-55%**	598 x 270 x 725mm 117,059cm^3
49.6kg	Around **-50%** →	**24.4kg**	← Around **-50%**	49kg

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Our journey to miniaturisation

Liquid cooling system

Totally optimised structure

60%

smaller than previous model size

4-in-1 laser

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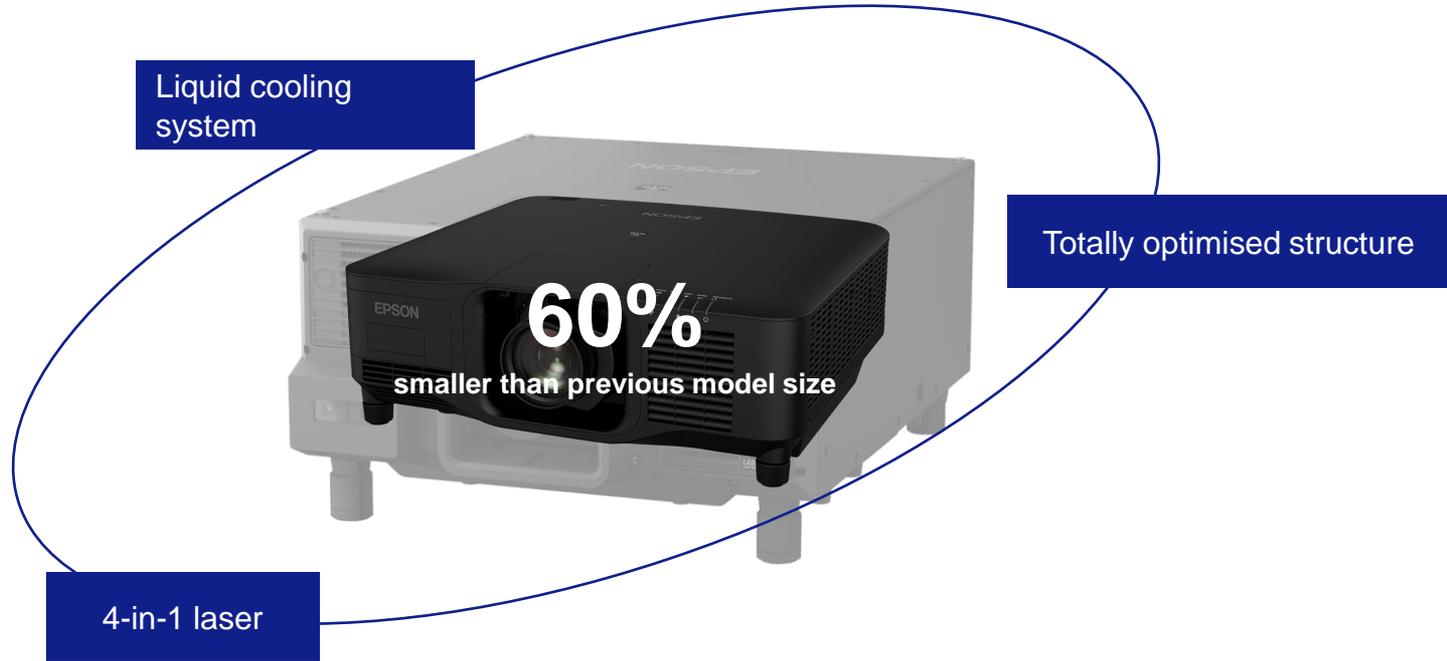
Liquid cooling system

Simplified for efficiency

- Unique Epson LCD panel liquid cooling structure[1]

- Improved cooling efficiency, allowing reduced product size unit despite having a larger radiator than the L20000U
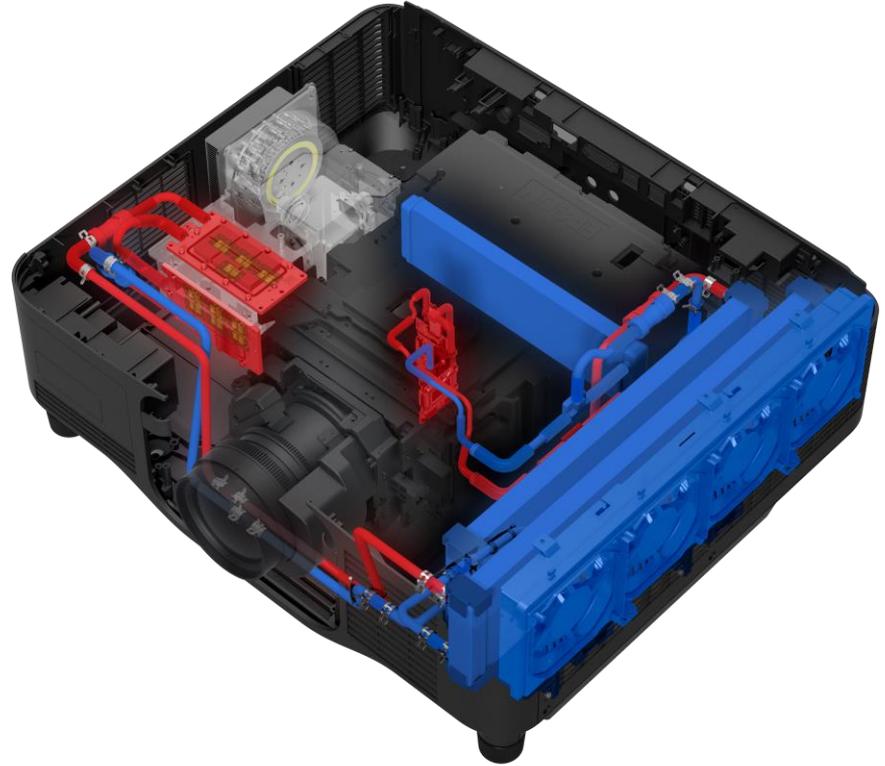
[1]Only for 20Klm/16Klm model.

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3x brighter at the same size compared with previous laser bank

Therefore, LSM is **60% smaller**
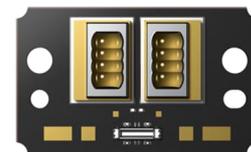
Customer benefits

Save labour cost

PU2220B (24.4kg)
can be carried alone*.

*25kg can be carried alone:

https://www.beckettandco.co.uk/manual-handling-faq-weight/

Save delivery cost

Barco G100 W22	→	Epson PU2200B
54kg		**24.4kg**

Save warehouse space

Barco G100 W22	→	Epson PU2200B
0.79m²		**0.56m²**

*Square metre was calculated by multiplying the depth and width.

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Reliable dust proofing

IP5X certified dust resistance

High durability with **IP5X certified**[1] optical engine and laser light source module

Epson's **most advanced** dustproof design

Specialised silicon seals reduce dust infiltration by up to **80%**[2]
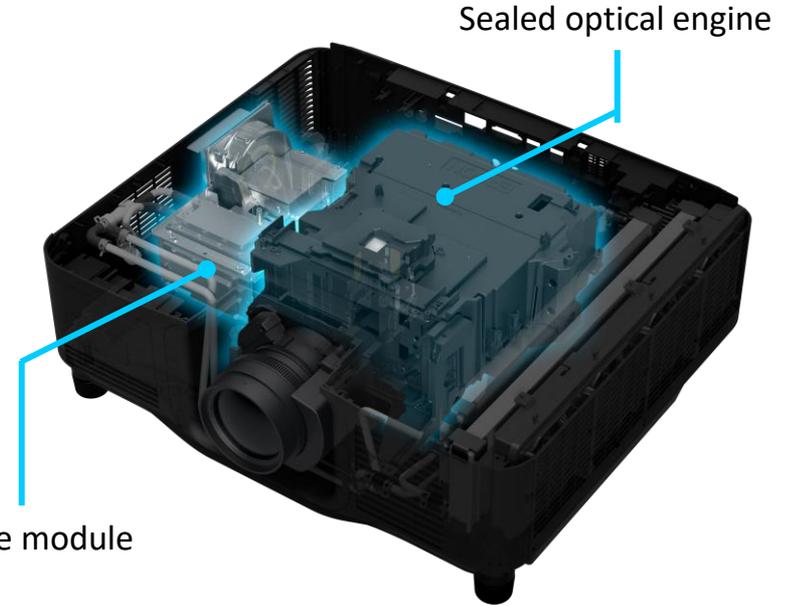
Sealed optical engine

Sealed light source module

IP5X
Dustproof

[1]IP5X certified Optical Engine and Laser Light Source Module in accordance with IEC standard 60529 for outstanding dust resistance.
[2]Dust on the lens compared to EB-L20000U.

ALL CONTENT IS COMPANY CONFIDENTIAL

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Fleet utilisation

Versatile projector fleet stacking solution

Use ELPEC01 camera and EPPT software to stack and control multiple projectors

| PT-RZ31K | | EB-PU2220B | | PT-RZ21K |

Total Height: 1126mm* **-10%** → **Total Height: 1015mm*** ← **-22%** **Total Height: 1305mm***

Total Weight: 232Kg* **-50%** → **Total Weight: 115Kg*** ← **-41%** **Total Weight: 195Kg***
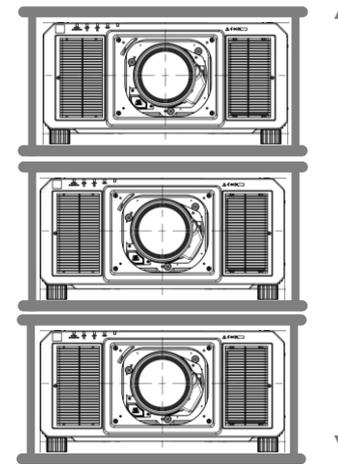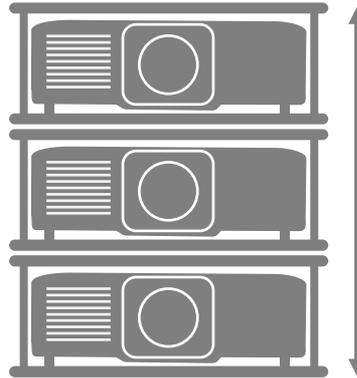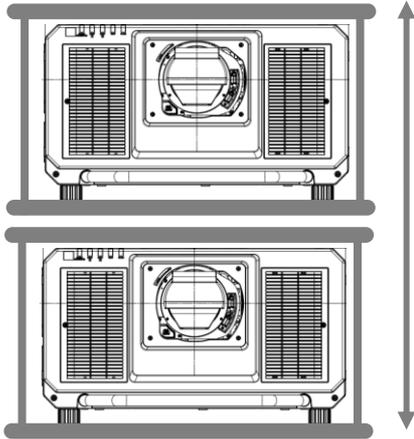
*Weights and heights are based on publicly available frame and projector data

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Efficient serviceability

Improved disassembly and assembly process

	Steps to remove optical engine unit	Screw type	The number of screw	The number of cable
PU2220B	3 steps	3 type	42	14
L17755U	13 steps	8 type	79	63
Gap	**-10 steps**	**-5 type**	**50% less**	**80% less**

Required time to dissemble and assemble

PU2220B	**15** min.	**Around 80% less**

L1755U	**64** min.
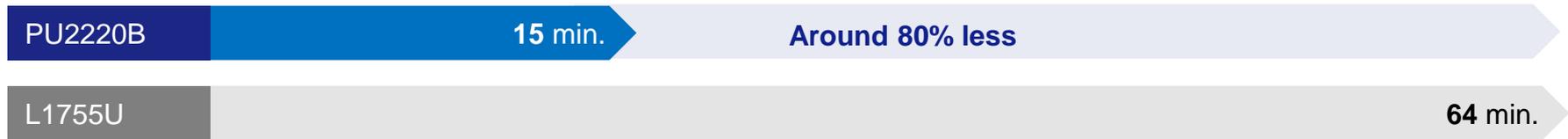
Condition
This time does not include trouble shooting and adjustment after exchanged units.
This time is calculated based on actual service time by MOST methods but does not include lost time.
This time is an estimate, please refer to the official service manual.

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Improved maintainability

Filterless structure

- Hassle-free maintenance

- Custom-designed seal mechanisms

- Coated circuit boards and power supply

- IP5X certified components[1]

IP5X Dustproof

[1]IP5X certified Optical Engine and Laser Light Source Module in accordance with IEC standard 60529 for outstanding dust resistance.

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Compact and light design minimises resources

- Due to its size and weight, we have reduced the amount of resources needed: miniaturisation of the packaging size and the reduction of the plastic cushioning material

- We develop products with less environmental impact while maintaining powerful performance

	EB-L20000U		EB-PU2220B	Difference:
Weight	49.6kg	→	24.4kg	Around **- 50%**
Packaging size	0.493m³	→	0.147m³	Around **- 70%**
Packaging material	12,000g	→	4,200g	Around **- 65%**

*20,000lm models

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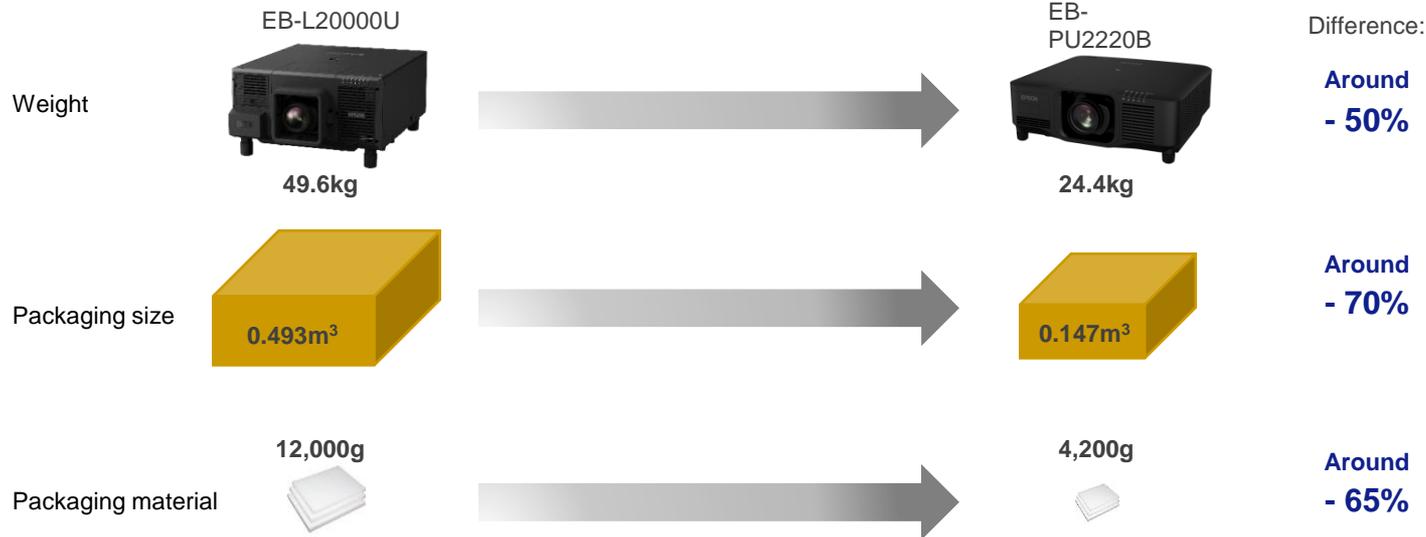
Reduced CO2 emissions in the life cycle by **38%**

- The PU2220B achieves a reduction in power consumption thanks to the high-efficiency 4-in-1 laser light source
- Reduced CO2 emissions at stage of use by 33%

CO2 emissions in the life cycle[2]
(Compared to the previous model (200V-240V)

1,851kg-CO2

38%

1,151kg-CO2

EB-L20000U	EB-PU2220B

■ Materials (kg-C02)   ■ Production (kg-C02)   ■ Deliver (kg-C02)   ■ Use (kg-C02)   ■ Recycle & Reuse (kg-C02)
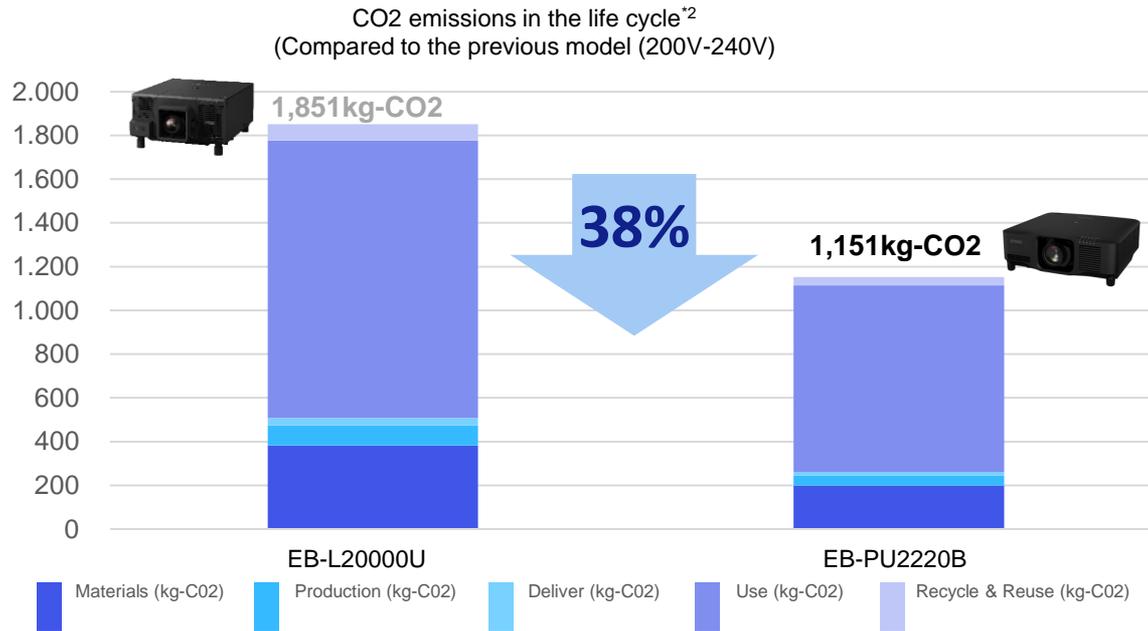
*2 Epson conducts life cycle assessments to quantify the environmental in the product life cycle. The conditions of usage stage are 3.5 hours per day, 100 days per year, and 5 years of use. Annual CO2 emissions are calculated using the EPSONburden LCA unit index (0.416kg CO2 / kWh).

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Lenses

Lenses

38 — **Panasonic**

37 — **BARCO**

21 — **CHRISTIE**

12 — **EPSON**

Just 12 lenses for all 6Klm-20Klm products

✓ save money,
✓ save storage space,
✓ simpler to specify projects

Number of lenses required by each manufacturer to cover all available throw ratios for projectors ranging from 6Klm to 20Klm

Information correct as of January 2022

EB-PU1000 Series (PU1006, PU1007, PU1008)

Lens	Throw ratio
ELPLL08	7.21-10.11
ELPLM11	4.85-7.38
ELPLM10	3.32-5.06
ELPLM15	2.16 - 3.48:1
ELPLM08	1.44-2.32
ELPLW05	1.04-1.46
ELPLU04	0.87-1.05
ELPLU03S	0.65-0.78
ELPLX01S	0.35

Throw ratio axis: 0.0, 2.5, 5.0, 7.5, 10.0
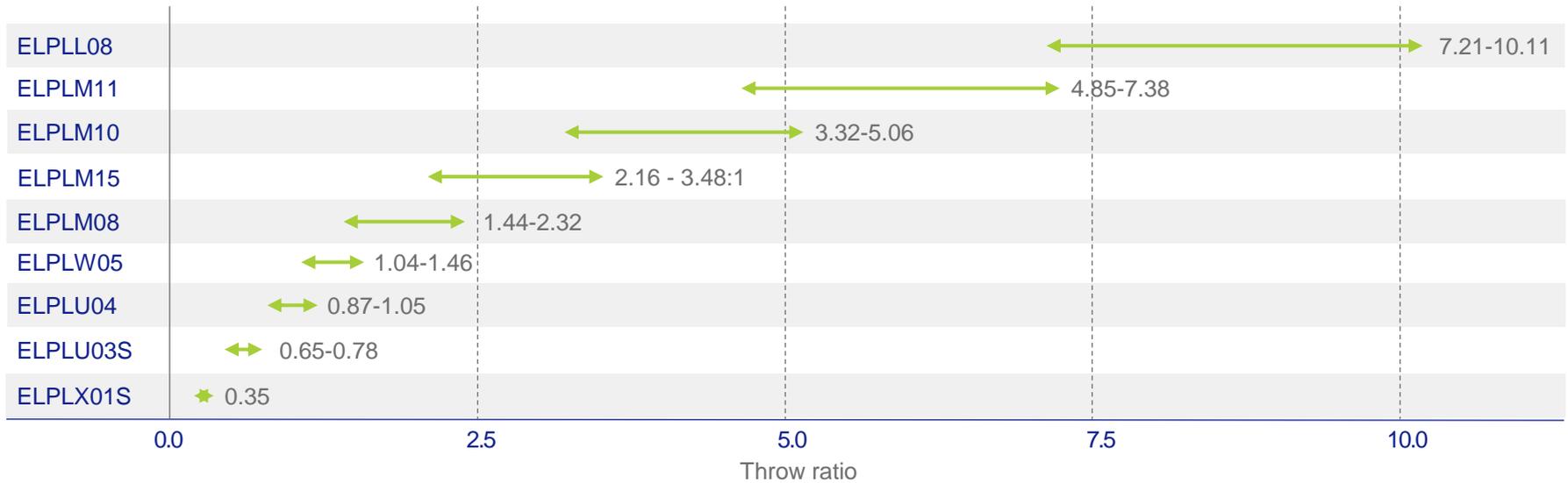
- Lens Range : 0.35 – 10 :1

- Resolution: 4K

- Position Memories: Yes 10

- Focus: Centre and Border (distortion)

EB-PU2010 / PU2100 / PU2200 series

Lens	Throw ratio
ELPLL08	5.27 - 7.41
ELPLM11	3.54 - 5.41
ELPLM10	2.42 - 3.71
ELPLM15	1.57 - 2.56
ELPLW06	1.19 - 1.62
ELPLW08	0.86 - 1.2
ELPLW05	0.77 - 1.07
ELPLU04	0.64 - 0.77
ELPLU03S	0.48 - 0.57
ELPLX02S	0.35

Throw ratio (axis: 0.0 — 2.5 — 5.0 — 7.5 — 10.0)
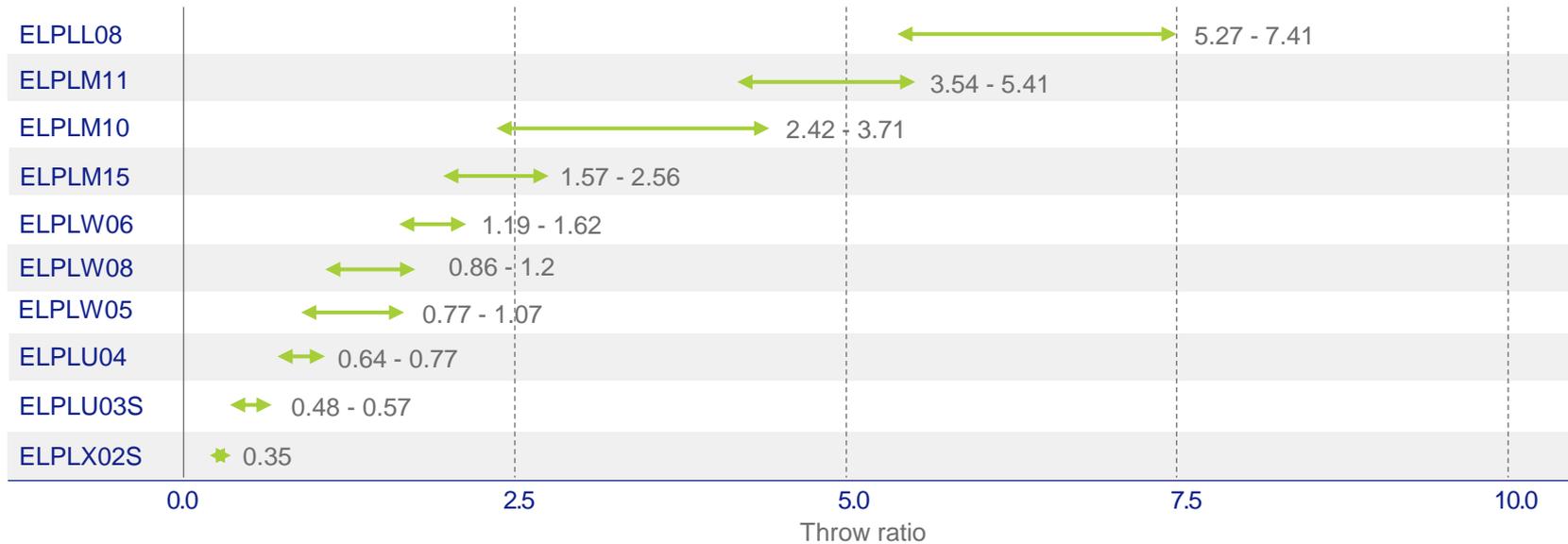
- Lens Range : 0.35 – 7.41 :1

- Resolution: 4K

- Position Memories: Yes 10

- Focus: Centre and Border (distortion)

ELPLW05 is limited to 12,000lm

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Camera Assist

'Camera Assist' allow you to speed up multi projector installs by using the ELPEC01 external camera to perform complex multi projector installation tasks

What it can do…

Edge blending

Stacking

Simple Stacking

Color Calibration

Remote Access

The benefits to you…

No installation expertise required

Stack, blend and calibrate colours with ease

Reduced installation time

Plug-and-play functionality

Low cost solution for advanced installation features

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ELPEC01 - External Camera

Optional camera module **ELPEC01**

Compatible with any interchangeable lens unit

Usable with UST lenses:
ELPLX01S, ELPLX02S – ELPLX03s

Mount:
Internally *13,000lm to 20,000lm*
Externally*: 10,000lm and below*

Connection via USB to the projector

Geometry Assist: Tiling
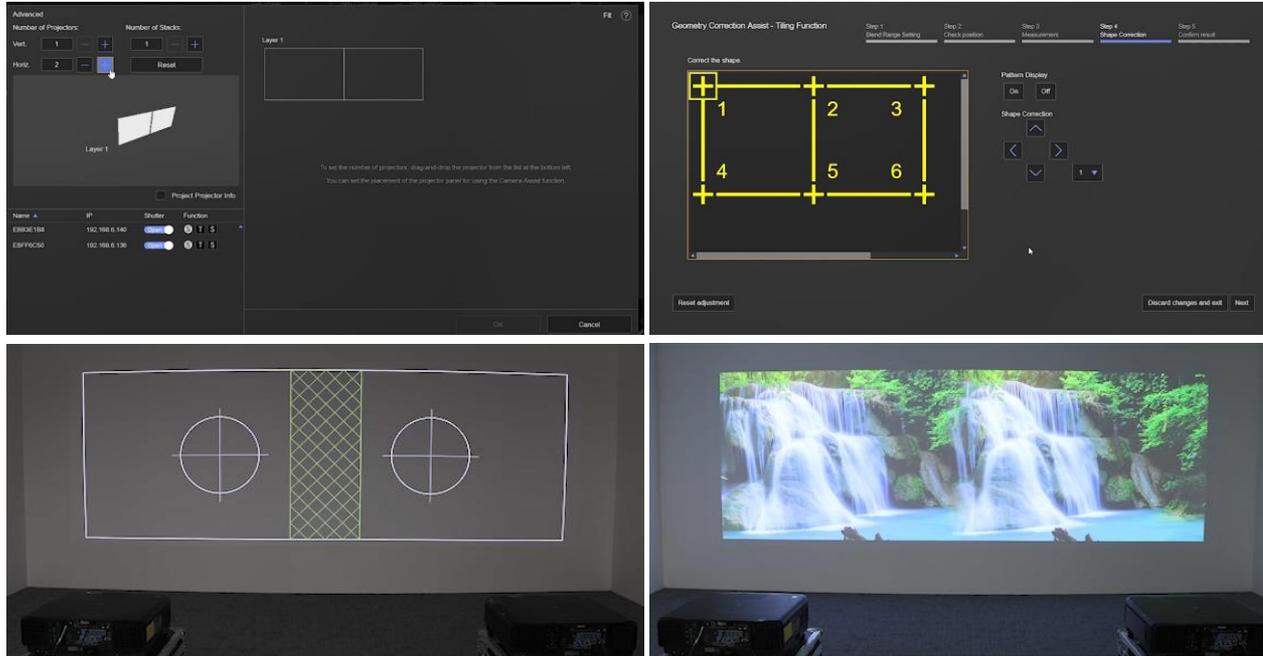
Automatically correct onboard geometry for an edge blend installation

Up to 15 projectors using EPPT

Simple and intuitive GUI.

Up to 300" per projector

60% faster than manual tiling set up

Automatic Tiling
(PU series x ELPEC01 x EPPT)

Manual Tiling
(PU series x Remote controller)

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Geometry Assist: Stacking
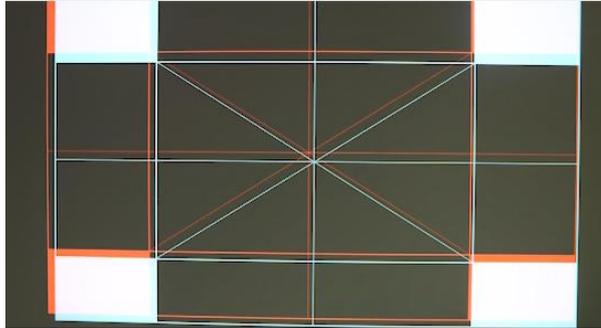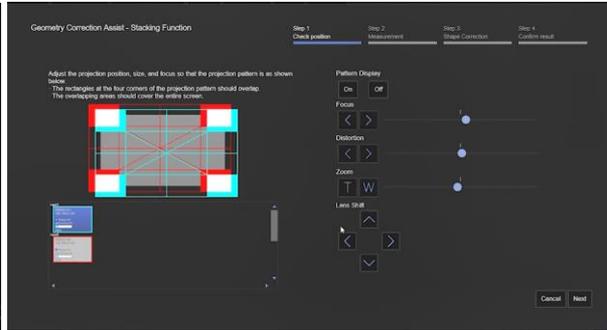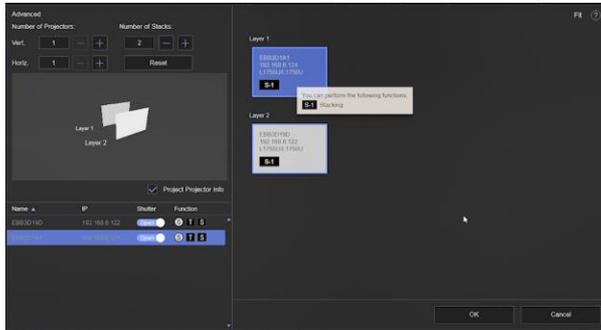
Automatically adjust onboard geometry to create a brighter image

Offers quick & easy stacking - up to 6 units using EPPT

Simple and intuitive GUI.

No precise manual placement of the projectors required

70% faster than manual stacking set up

Automatic Tiling
(PU series x ELPEC01 x EPPT)

Manual Tiling
(PU series x Remote controller)

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Simple Stacking

2x Epson projectors   LAN   **+**   **ELPEC01**   **+**   **Remote Control**   →   PC-free projector stacking assist

Double the projected image brightness **quickly** and **easily**

Requires only an **Epson camera**, **network cable** and **remote control**

Cross model compatibility - **Any Epson projector with a camera!**

Time to complete: **7 minutes**

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Simple Stacking Example
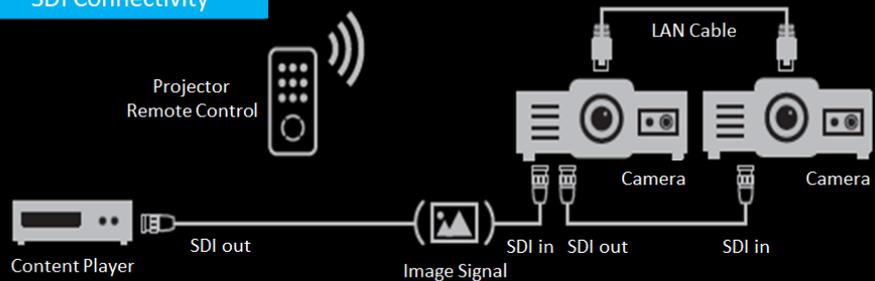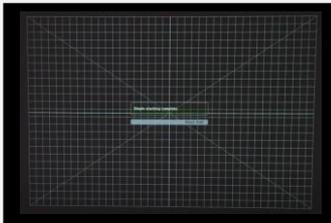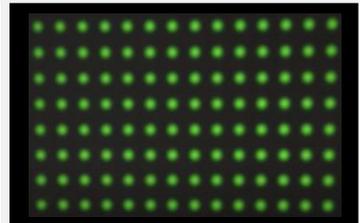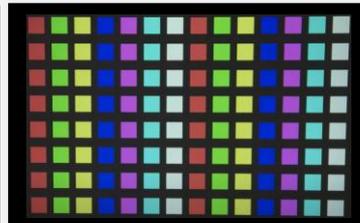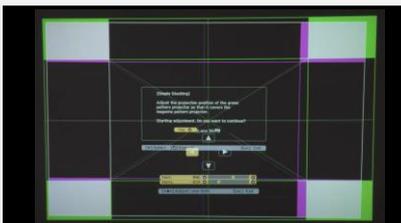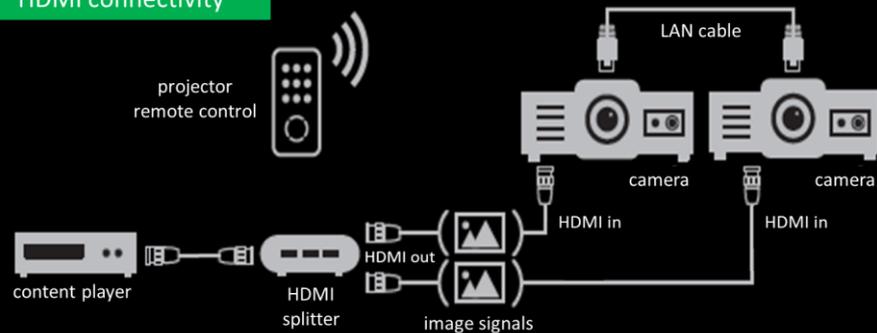
Color Calibration

Adjusting image when using multiple projectors
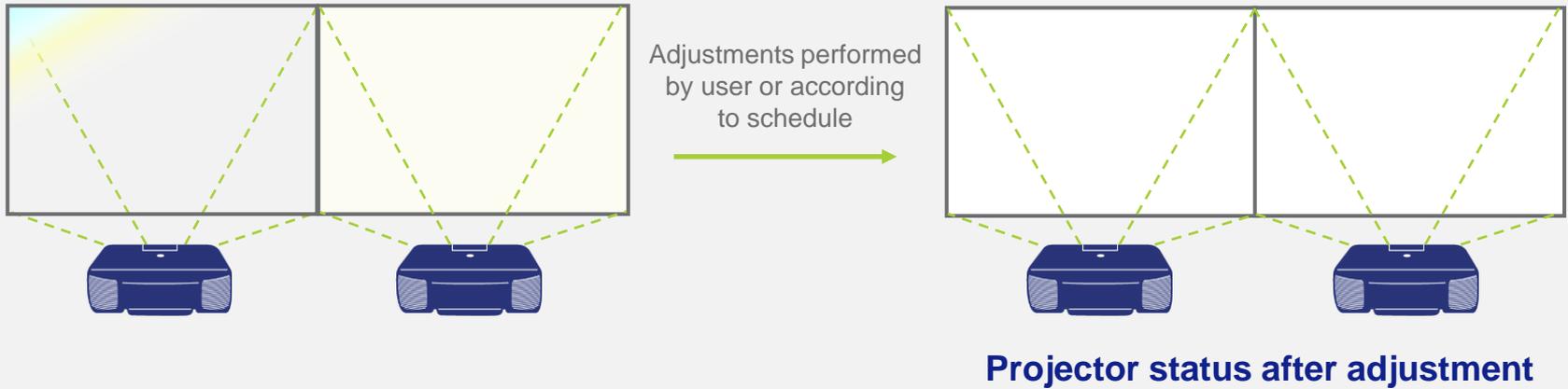
Adjustments performed by user or according to schedule

Projector status after adjustment

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Epson Projector Software

Epson Projector Software

Epson provides free solutions from concept to final installation...

Installation	Management	Projection
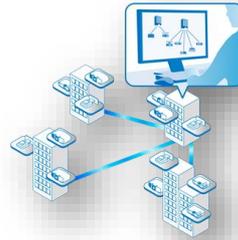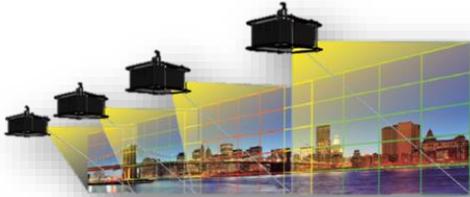
EPSON Projector Professional Tool

Epson Configuration Tool

Easy set-up for multiple unit projection
->Installation cost reduction

EPSON Projector Management

Building System and management projector
-> Take prompt action against unexpected error

Epson iProjection

Epson Projector Content Manager

Enhance the projection solution
->Make class/meeting more productive and deliver impressive visual experience

Epson Throw Distance Simulator (TDS)
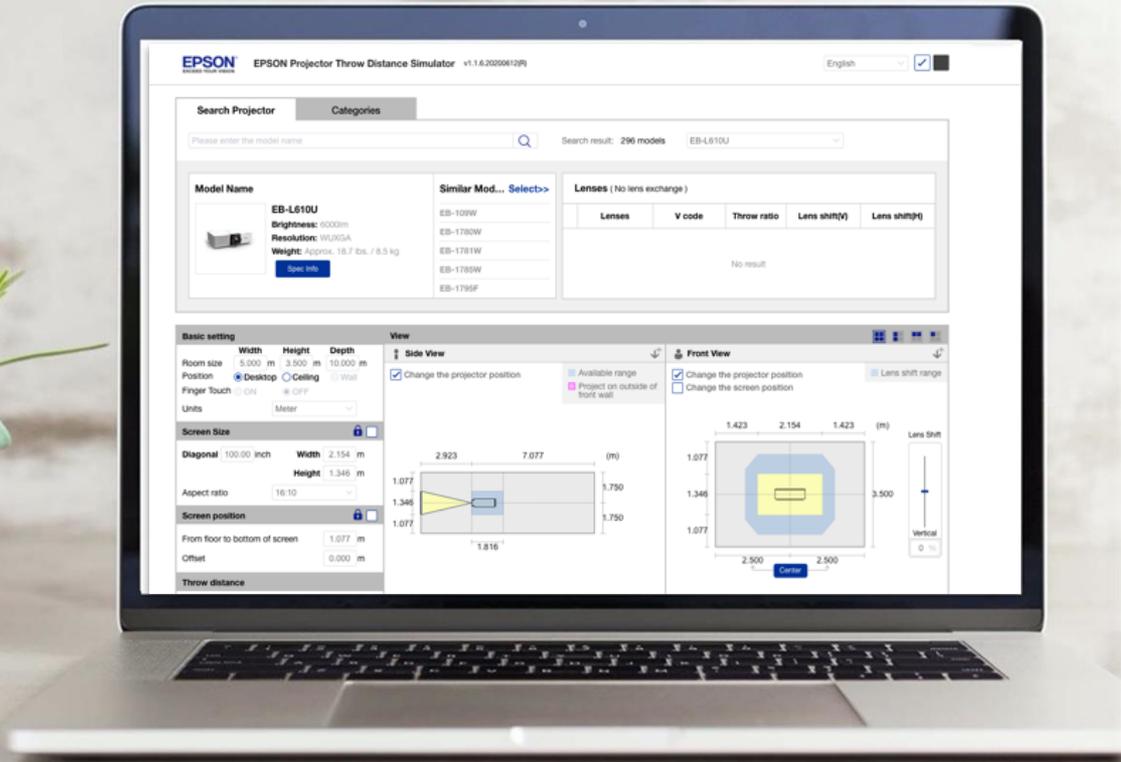
Add your required measurements

Determine your preferred aspect ratio

Calculate necessary installation dimensions

Determine optimal fit

Blending and curved screens supported

Online: **support.epson.europe.com/TDS**

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NFC – Epson Projector Config Tool

- New Epson Projector Config Tool app

- iOS and Android supported

- Manage up to 100 projectors

- Filter registered projectors by date/serial number/asset name, etc.

- Read/write data without powering on the projector

- Import/export settings file for editing/sharing

- Check projector status, read last error code

- Reduce multi-projector set up steps by half vs. USB memory function

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NFC – Epson Projector Config Tool

USB memory setting
- Open the box
- Unpack the projector and the lens
- Attach the lens and plug in the power
- Turn on the projector
- Apply settings using OSD
- Load settings using USB
- Turn off the projector
- Remove the lens and power cable
- Place in the box
- Reseal the box

NFC setting
- Open the box
- Tap your smartphone to get data
- Check and change the settings using the app
- Tap your smartphone to transfer the data
- Reseal the box

The number of steps are reduced by 50% compared to the USB memory function

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Epson Projector Management - EPM

Network Software for System Management

- Notification latest FW (internet connection required)

- Scheduled FW update up to 5 units contemporaneously

- Total control UP to 2000 units

- Remote diagnosis with live status and warning

- Warning notification via e-Mail

- Temperature monitoring

- Operation schedule – Week – Day - Hours

- PJ link compatible

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# Epson Projector Professional Tool - EPPT
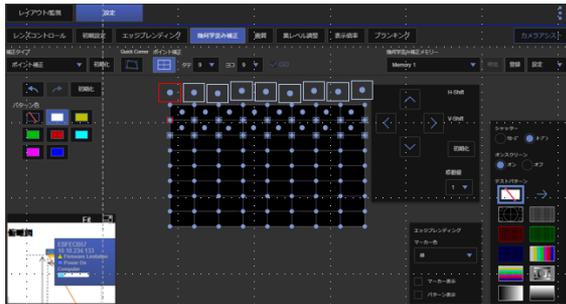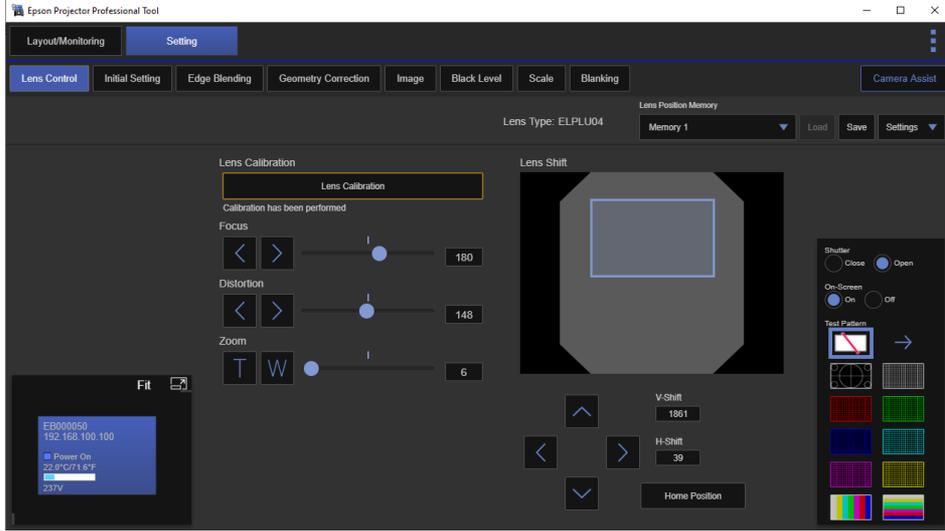
- **Network Software for Efficient Setup of multiple projectors**

- Register 50 units per project

- Unlimited projects

- Camera assist function to automate edge blending, stacking, colour calibration and screen matching

- Manual colour calibration (including black level and geometric correction available

- Basic projector control and monitoring

- Export geometry files in case of fault.

Web control

Home	Basic control	Control pad	Lens control	Status information
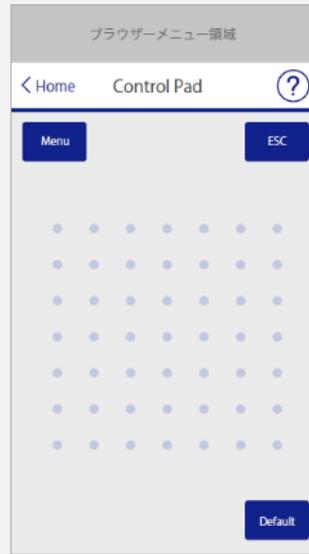
Adjust projector settings with a web browser or smart device

OSD Control Pad

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Epson Content Manager
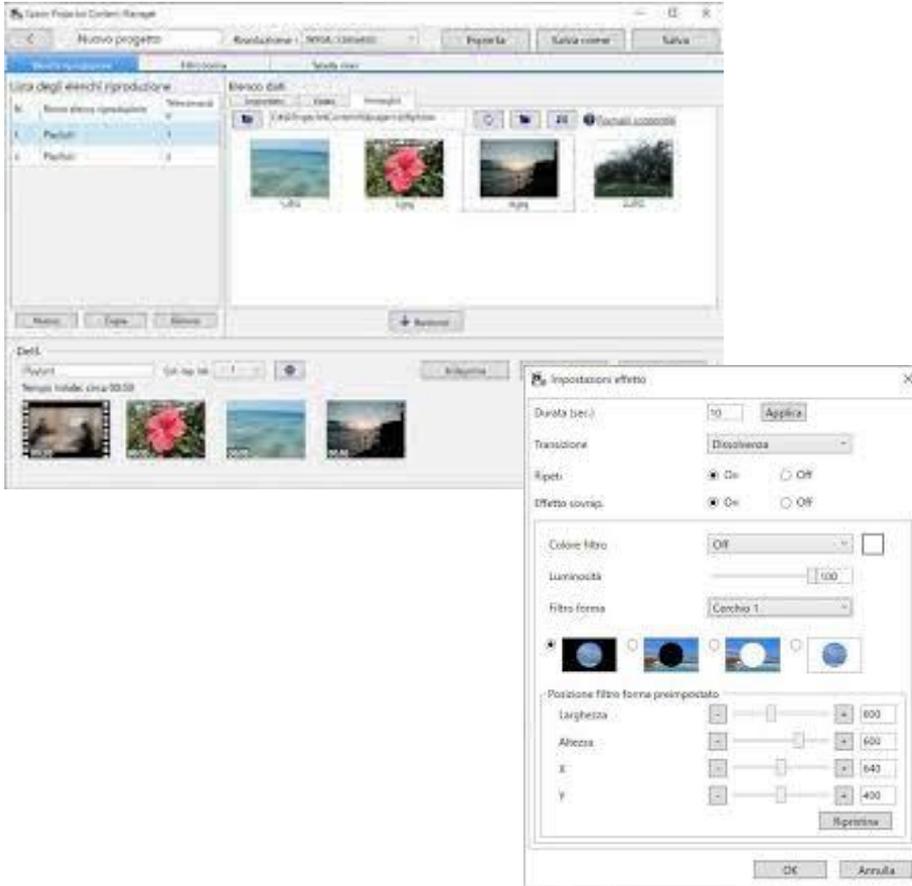
- **Software for Content Management**

- Dedicated to the internal advanced media player

- Format conversion

- Masking supported

- SD or USB stick production

- Play Sync on multiple units

- Operation schedule – Week – Day - Hours

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Epson Content Manager

By using Content Manager, you can create signage playlists easily.

They only need an SD card or USB memory - no need for HDMI or other cables.
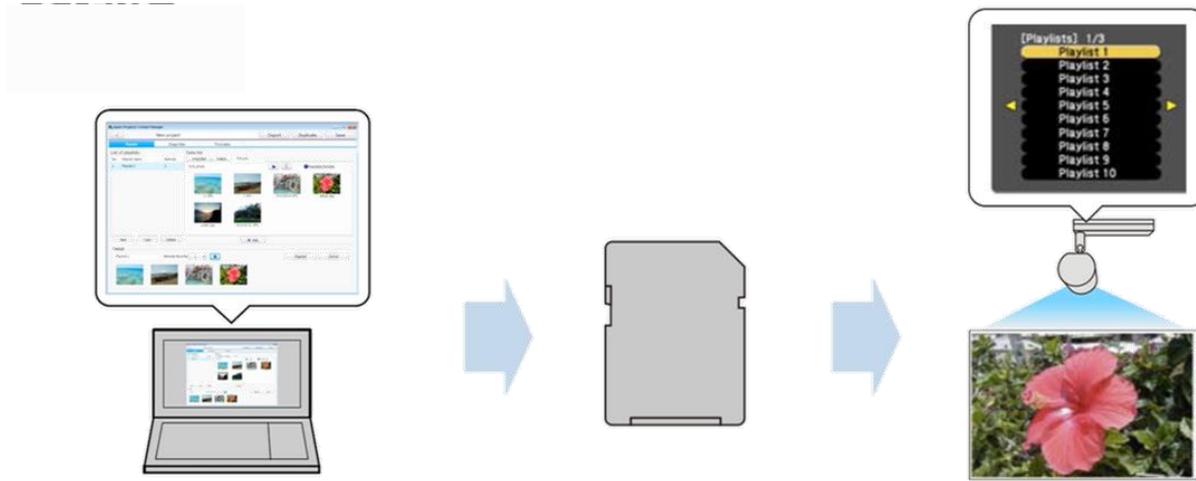
- **Add** images or movies to a playlist
- **Schedule** a playlist
- **Set** a custom shape filter

- **Save** to an SD card

- **Project** your playlist from the SD card

Network Upload allows you to upload new projects wirelessly, directly to the projector

Epson Creative Projection

- Create quick, easy and free custom content for signage projectors.
- Reduce content creation costs and provide dynamic, up-to-date content with ease.
- Designed for small retail or hospitality users with limited budget for signage content creation.

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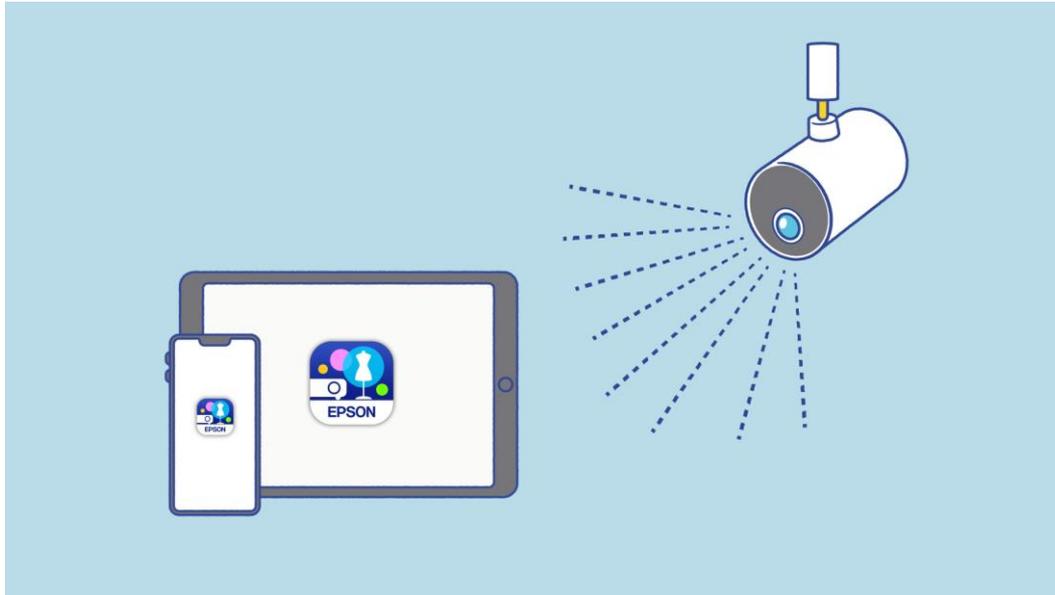
Control Protocols

Epson Projectors offer a variety of ways for external control including:-

PJLink	Used by many Japanese projector manufacturers, offers a universal protocol of projector control.
ESCVP.net21	Epson's own internal control, can be sent via either RS-232C or LAN, details are available in the user manual downloadable from the Epson website.
Art-net	Used to control Epson projectors from devices such a lighting desk used in theatre / live events.
Web API	Developed to allow users to create web based monitoring systems, allows control of projectors via specified Web API commands, also supports ESCVP.net.
Crestron Roomview/AMX Device Discovery	These are specific to the manufacturer and allow their control system to use their own internal standard communication protocols to control Epson projectors.

Specific Demonstrations of these control protocols are available on request

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Selected models only

Thank you