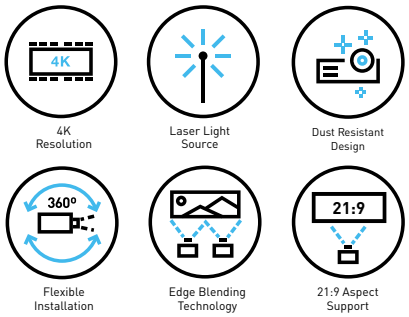
4K HIGH BRIGHTNESS LASER PROJECTORS
EB-PQ2008B/PQ2010B/PQ2213B/ PQ2216B/PQ2220B

EPSON

4K BRILLIANCE IN A COMPACT DESIGN.

Experience unmatched brilliance and compactness with Epson's PQ-series projectors.

Introducing Epson's PQ-series projectors, which feature 4K Crystal Motion Technology and up to 20,000 lumens of brightness. With a compact design and easy stacking function, these projectors offer unmatched flexibility. Our NFC function simplifies setup and customisation via the Epson Projector Config app. Elevate your viewing experience with Epson PQ-series projectors – performance and convenience in one compact body.



ENGINEERED FOR good

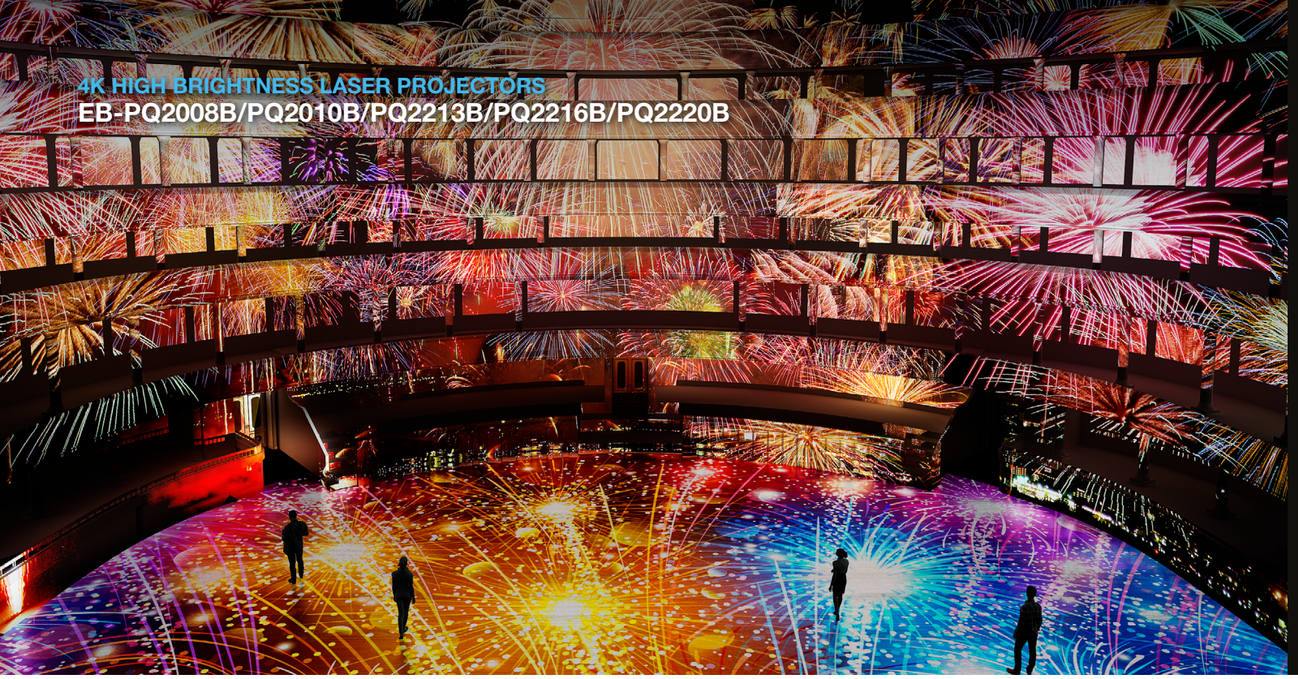
3LCD · LASER LIGHT SOURCE · 4K CRYSTAL MOTION · IP5X Dustproof* · WORLD'S NO.1 PROJECTORS

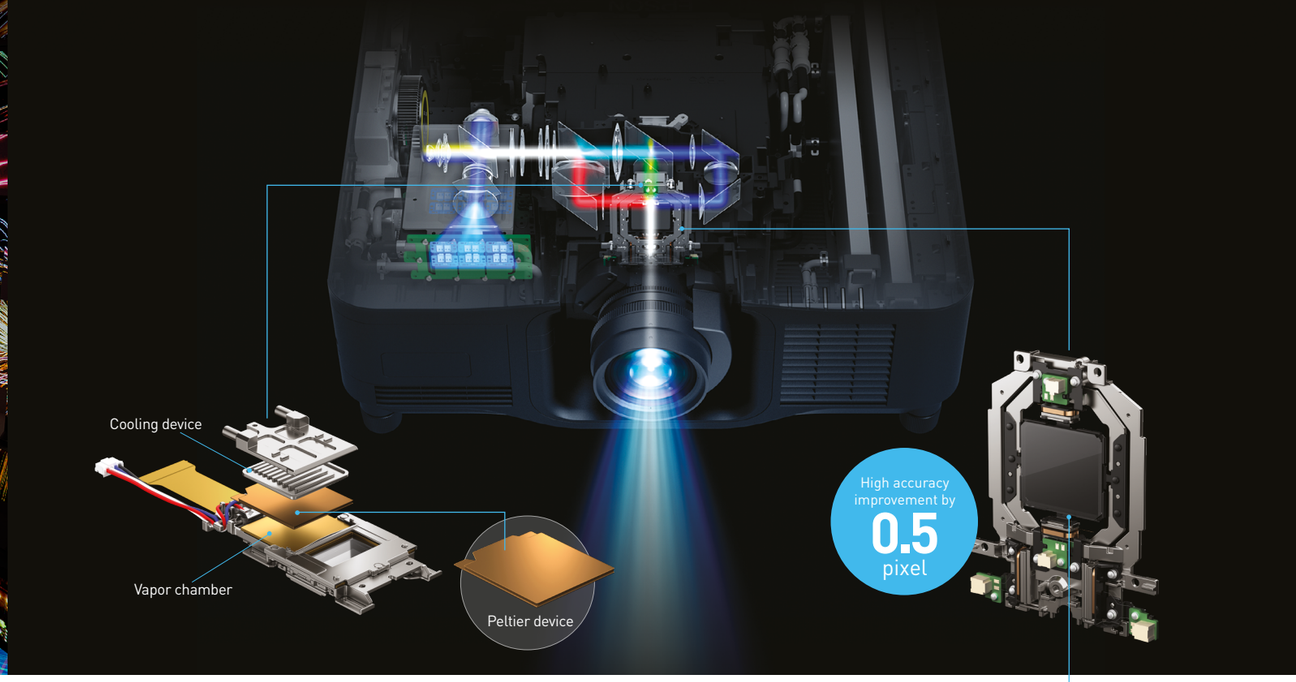
Improved 4K Resolution
Enjoy sharp visuals with up to 20,000 lumens and 4K Resolution using Epson's Crystal Motion technology with HDR10 support.

Compact Convenience
Enjoy easy handling with a compact design, ensuring effortless setup and transportation.

Installation Flexibility
Limitless staging possibilities with the easy stacking function and various auto geometry features using the optional ELPEC01 camera.

*Only for EB-PQ2220B, EB-PQ2216B and EB-PQ2213B.

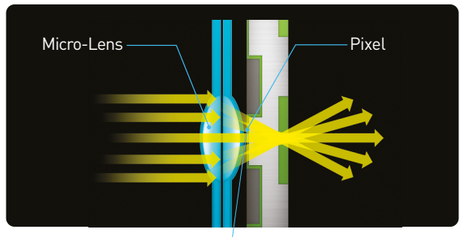


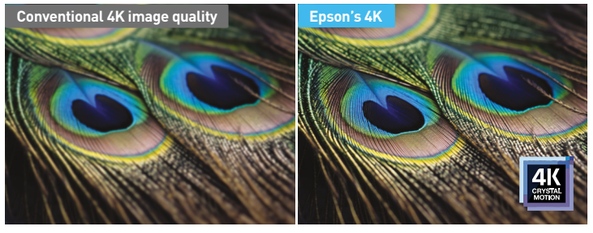


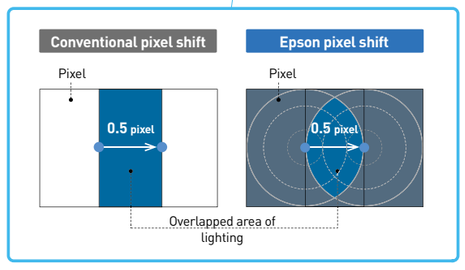
Epson 4K Crystal Motion Technology

Multi-Lens Array Technology

Epson adopted a double-microlens array technology, featuring two tiny lenses for each pixel panel . These lenses are positioned to face each other. This setup not only makes better use of the light but also makes the image appear sharper. The double lenses focus the light more precisely as it passes through each pixel, enhancing both brightness and clarity.



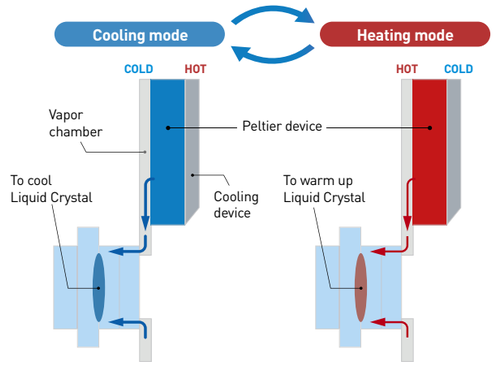




High-Performance Image Processing Chip

Incorporates an image processing chip which is also equipped in high-end Epson home theater projectors. The operating frequency, memory bandwidth, and data transmission speed have been significantly upgraded over previous models to enable a good 4K video experience.

PQ22/20 series	Specification improvements	Benefits
Operating Frequency	Approx. **2 times** VS PU series chip	Contribute to panel high-speed drive 4K@120Hz image input/ ouput support
Memory Bandwidth	Approx. **3 times** VS PU series chip	Contribute to 4K Geometry Correction
Image Transmission	Approx. **3 times** VS PU series chip	Contribute to high 4K image quality



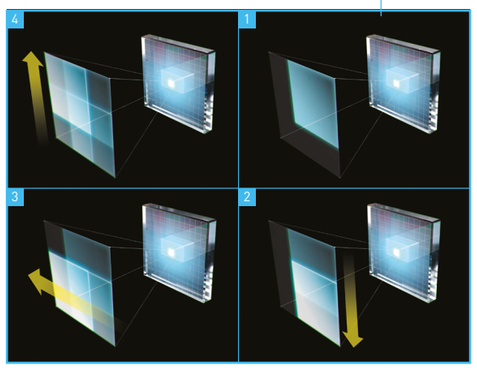
Direct, Active Type of Thermo-Control Panel

Epson newly developed the direct and active type of thermo-control panel for the PQ22 series. This new technology incorporates a high thermal conductivity vapor chamber and peltier element into the liquid crystal panel. By reversing the polarity of the applied voltage to the peltier element, it is possible to quickly switch between cooling and heating the liquid crystal which help to increase the resolution and brightness of the projector.

High-Speed Panel Drive Technology

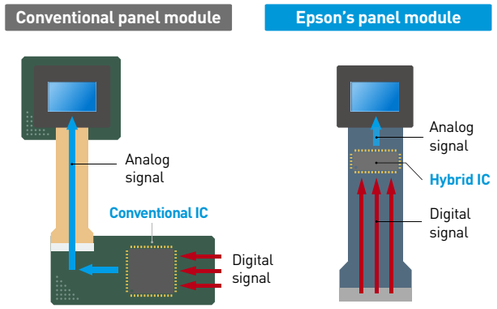
Epson developed its own Hybrid IC drive technology and was able to increase the panel's video response speed to 240 Hz*. To achieve 4K resolution by optimising the newly-equipped drive circuit and signal transmission path in the PQ22/20 series (approximately four times the speed of the 60 Hz image refresh rate in previous business models).

*Native 4K refresh rate on the projection screen is 60 Hz.



High-Precision, Dual-Axis Shift Device

Epson's dual-axis shift device developed in-house enables Crystal 4K image quality. The action of the shift device is extremely fast while also providing extremely high precision, which makes it essential for creating the Crystal 4K video.



World's Smallest and Lightest 4K

10,000 lumens and 20,000 lumens model*

10K lm model

EB-PQ2010B

70%^ Size Down

4K CRYSTAL MOTION Resolution

20K lm model

EB-PQ2220B

58%^ Size Down

66%^ Brightness Up

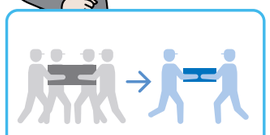
4K CRYSTAL MOTION Resolution

*According to a survey by Epson as of August 2023. ^Compared with Epson EB-L12000Q projector. Lens and foot are not included.

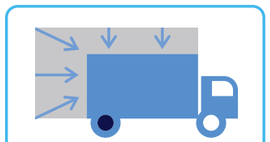
Benefits of Being Smaller

The smaller size and lighter weight of the projectors improve transportability and simplify warehousing. Combined with flexible installation options, these features offer substantial cost savings for our customers.

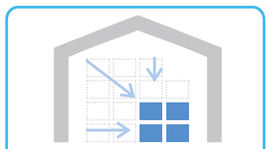
Why Smaller is Better



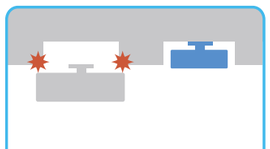
Save labour costs



Save delivery costs



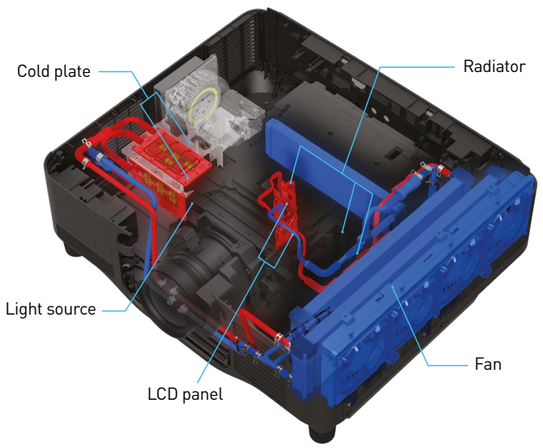
Save storage costs



Unhindered by space constraints

Sophisticated Liquid Cooling System

The PQ22* series builds on the advanced liquid-cooling technology of the PU22 series, leveraging over a decade of research, development, and industry expertise. This unique liquid-cooling system efficiently cools the optical engines and laser light source units, enabling the creation of more compact products.



*Limited to PQ2213/PQ2216/PQ2220.

Efficient and Flexible Operation

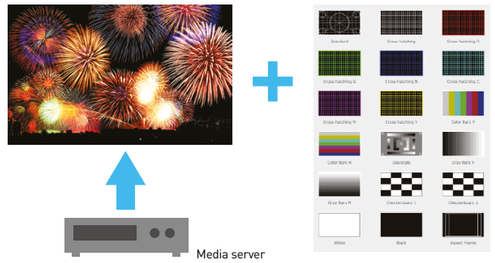
Freeze Capture Function

The Freeze Capture function allows you to capture a test pattern from an external device and use it as a test pattern without needing the device. This enables multiple vendors to use the same video output device for installation adjustments without interference. Additionally, previously captured test patterns can be recalled* when needed.

Note: Some functional restrictions apply. *The power supply must remain on.

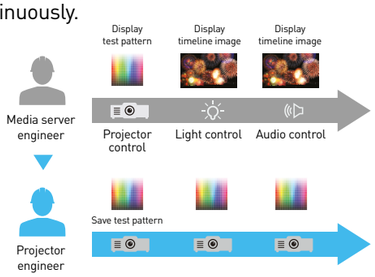
Test pattern save

External test pattern can be saved for use.



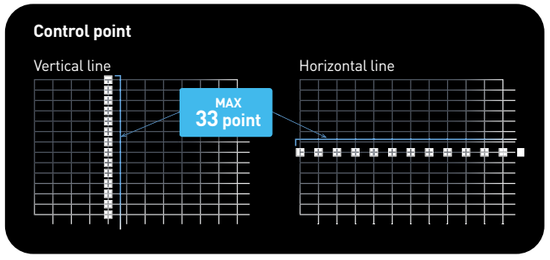
Continuous projection

Only need power supply, you can project the certain image pattern continuously.



Versatile Point Correction

In addition to making precise adjustments with point correction for 33x33 grids, installation is now made easier with support for correcting points vertically or horizontally in a single column simultaneously.

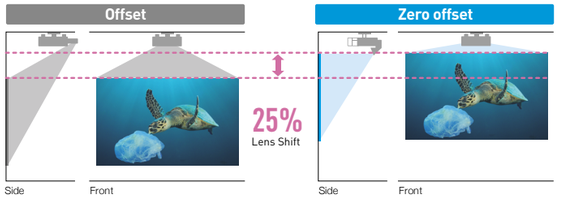


21:9 Support

The PQ22/20 series support 21:9 aspect ratio, making it ideal for hybrid meeting solutions that require high brightness and excellent image quality.

Ultra Short-Throw Lens Support

The PQ22/20 series supports zero offset lenses that utilise advanced optical design and manufacturing technologies. With a 0.35 throw ratio and zero offset, these versatile lenses are perfect for installations in narrow spaces and rear-projection applications.



Broad Lineup of Lenses

PQ22/20 series can be used without modification with the same lineup of lenses as PU22/20 series. In addition, PQ22/20 series supports the LW05/LU03/LM08 lenses* with limitations.

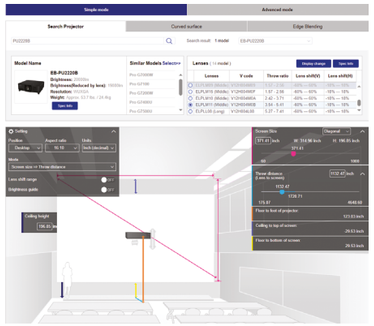
* A decrease in brightness and other functional restrictions may apply. For more details, please refer to manual.

Software Support Function Enhancement

Projection Distance Simulator Support

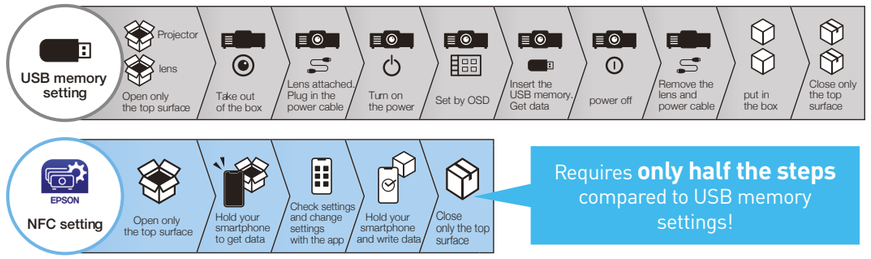
For each projector model, you can calculate the distance needed for a specific screen size or find out the screen size based on the distance from the projector. You can also simulate different projector setups, including the number of units and lens types, based on your installation environment. The updated projection distance simulator now supports simulations for flat and curved walls, as well as edge blending scenarios.

Note: Some functional restrictions apply.



NFC Function

NFC functionality allows seamless communication with smart devices even when the projector is powered off. This feature can be easily configured and monitored using the Epson Projector Config Tool on a smart device. It enables initial setup to be performed at the warehouse before transportation, reducing the time required for kitting and streamlining the installation process when deploying multiple projectors.



Auto Geometry Correction Function Support*1

In addition to supporting "Simple Stacking," the PQ22/20 series also supports "Simple Blending," making it easy to use the blending function. These features are accessible directly from the OSD, allowing users to bypass complicated installation work and enjoy a large 4K screen. Furthermore, stacking and blending auto-correction can be applied to both flat and curved walls when used in conjunction with the Epson Projector Professional Tool*2.

*1 ELPEC01 must be mounted.
*2 Some functional restrictions apply based on the model and lens combination. The function may not operate depending on the customer's installation environment.

Epson Projector Management Connected Support

The PQ22/20 series supports the "Epson Projector Management Connected" software, which offers advanced features for monitoring, notifications, control, and overall management of the projector.

Note: Multiple users can monitor the same projectors at the same time from different devices. A PC that has Epson Projector Connected Agent installed is required for every 2,000 projectors.

Simple Stacking Function

Optional camera (ELPEC01)

Easily stack projectors using the OSD menu and remote controller, eliminating the need for a conventional PC or Wi-Fi router. You can also quickly stack projectors using the daisy chain feature with SDI signal IN/OUT support*1, reducing hassle and installation time. Alternatively, use the Auto Camera Assist for stacking*2, cutting installation time to just five minutes without any extra fuss

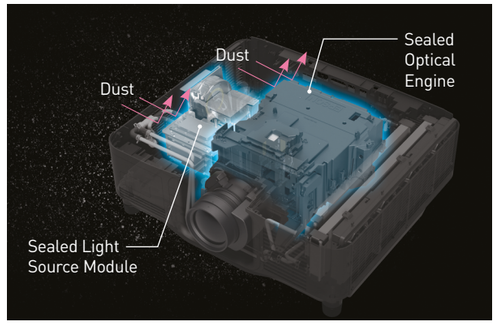
*1 Requires HDMI splitter for EB-PQ2008B.
*2 Requires ELPEC01 external camera module for each projector.

Improved Reliability and Durability

IPX5 Certified Optical Engine and Laser Light Source

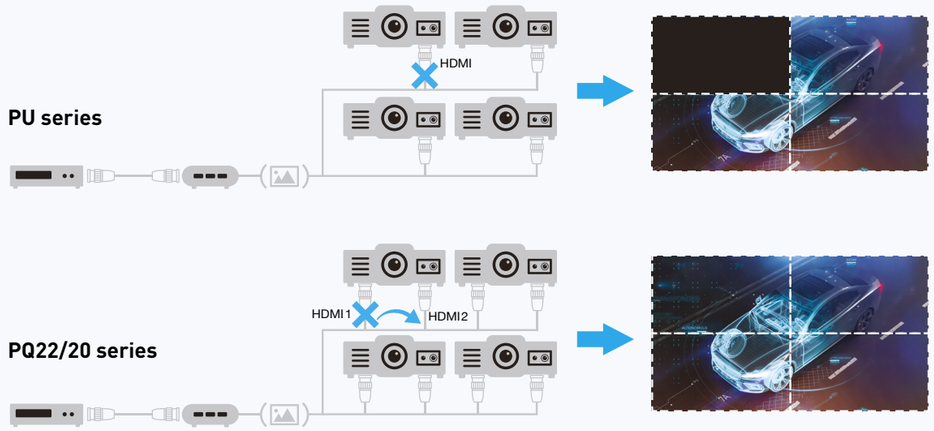
The PQ22 series*1 is equipped with IP5X-certified optical engines and laser light source modules, meeting IEC standard 60529*2, similar to the PU22 series. Key components are sealed, and circuit boards at risk of dust-related short circuits are coated for protection. This dust-proof design makes the EB-PQ22 series filter-free, eliminating the need for filter changes

*1 Limited to PQ2213/PQ2216/PQ2220.
*2 JIC C 0920 compliant in Japan. Operation is not guaranteed in all environments. Use of an enclosure is recommended in environments where smoke containing oil, moisture, or salt is in use.



Backup Source Function

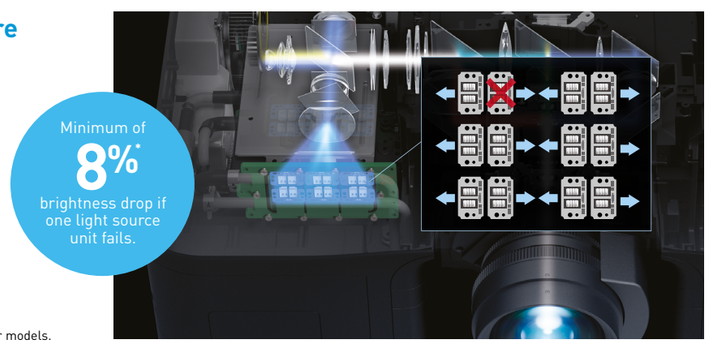
If the main signal is lost*1 during an event, the Backup Source function in the PQ22/20 series allows for quick switching to a backup source. In environments with redundant transmission paths to minimise risks, you can specify SDI, HDMI2, or HDBaseT as the backup source*2.



*1 Refer to the manual. *2 When using HDMI1 as the main port.

Independent Laser Element Structure

The PQ22/20 series uses light source units with separate laser elements and drive circuits. This design ensures that if one light source unit fails, it won't affect the others, reducing potential problems.



*Applicable to EB-PQ2220B only. Minimum brightness drop varies for other models.

Efforts to mitigate environmental impacts in manufacturing

Toyoshina plant in Japan

Epson becomes the First[1] in the Manufacturing Industry to Switch all global sites[2] to 100% Renewable Energy.

In December 2023, Epson successfully transitioned all its sites[2] to 100% renewable energy. This includes the adoption of Shinshu Green Electricity, a CO_2-free value-added electric power generated locally in Nagano Prefecture using hydroelectric power sources. This strategic shift not only contributes to the reduction of Epson's greenhouse gas emissions[3] but also boosts the utilisation of locally produced energy.

Assembled using 100% renewable electricity

Epson's worldwide group sites[2] met their electricity needs from 100% renewable energy sources (renewable electricity) in 2023. We first achieved 100% renewable energy at our projector's manufacturing site in the Philippines in January 2021 by generating power with a rooftop mega-solar power plant and switching to a mix of geothermal and hydroelectric power.

Epson Precision (Philippines), Inc.

Over 80% recycled cardboard packaging

All carton box packaging of Epson's projectors are made by over 80% recycled cardboard.

1 Among Japanese companies that have joined the RE100. Current as of January 9, 2024, per Epson research.
2 Excludes some sales sites and leased properties where the amount of electricity consumed cannot be determined
3 GHG (Greenhouse Gas), GHG scope 1, 2, 3 emission

SPECIFICATIONS

MODEL NUMBER		EB-PQ2008B	EB-PQ2010B
SKU Code		V11HB01880	V11HB02880
Projection Technology		RGB liquid crystal shutter projection system (3LCD)	
Specifications of Main Parts			
LCD	Size	1.04" wide panel with DMLA (C2 Fine, 12 bit, OD)	
	Native Resolution	1080p with 4K Crystal Motion (1920 x1080 x 4)	
	Resolution On Screen	4K UHD (3840 x2160)	
	Aspect Ratio	16:9	
Projection Lens	Type	Power Zoom, Power Focus	
	F-Number	1.8 – 2.3	
	Focal Length	36.0– 57.3 mm	
	Zoom Ratio	1.0 - 1.61	
	Throw Ratio	1.52 – 2.47	
	Lens Shift	Vertical: ±58% (Powered)	
		Horizontal: ±16% (Powered)	
Lightsource	Type	Laser Diode	
	Life (Normal / Extended)	20,000 hours / 30,000 hours	
Screen Size (Projected Distance)			
Zoom: Wide		60" – 1,000" [1.98 – 34.19 m]	
Zoom: Tele		60" – 1,000" [3.24 - 55.28 m]	
Brightness*1			
White Light Output (Normal / Eco)		8,000 lm / 5,600 lm	10,000 lm / 7,000 lm
Colour Light Output		8,000 lm	10,000 lm
Light Output (Center)*2		8,400 lm	10,600 lm
Contrast Ratio		Over 5,000,000:1	
Geometric Correction			
Projection Orientation		360° Free	
Vertical / Horizontal Keystone		±45° / ±30° with Middle Throw Zoom Lens	
Connectivity			
Digital Input	SDI (SD/HD/3G-SDI)	N/A	1 (BNC)
	HDMI	2 (HDCP 2.3)	
	HDBaseT	1 (HDCP 2.3)	
USB Input	USB Type A	2 (Port 1: For wireless LAN, SMF1, Firmware update, Copy OSD Setting, 5V/900mA Power supply / Content Playback; Port2: For ELPEC01, SMF1, Firmware update, Copy OSD Setting, 5V/900mA Power supply / Content Playback)	
	USB Type B	1 (For Firmware Update, Copy OSD Settings)	
Control I/O	RS-232C	1 (D-Sub 9pin)	
	Remote	Stereo Mini x 1	
Digital Output	SDI (SD/HD/3G/12G-SDI)	1 (BNC)	
	HDMI Out	1 (HDCP2.3)	
Audio Output	Stereo Mini	1	
Network	Wired LAN	RJ45 x 1 (100Mbps)	
	Optional Wireless	ELPAP11	
Wireless Specification (Optional Wireless LAN)			
Supported Speed for Each mode		Infrastructure: IEEE 802.11b (2.4GHz): 11 Mbps*3, IEEE 802.11g (2.4GHz): 54 Mbps*3, IEEE 802.11n (2.4GHz): 72.2 Mbps*3, IEEE 802.11a (5GHz): 54 Mbps*3, IEEE 802.11n (5GHz): 150 Mbps*3 Access Point (Wi-Fi Direct): IEEE 802.11g (2.4GHz): 54 Mbps*3, IEEE 802.11n (2.4GHz): 72.2 Mbps*3, IEEE 802.11a (5GHz): 54 Mbps*3, IEEE 802.11n (5GHz): 150 Mbps*3	
Supported Mode		Infrastructure, Access Point (Wi-Fi Direct)	
Supported Security Type		Infrastructure: Open, WPA2 / WPA3-PSK, WPA2 / WPA3-EAP Supported EAP Type: PEAP, PEAP-TLS, EAP-TLS, EAP-Fast Access Point (Wi-Fi Direct): WPA2-PSK (AES)	
Operating Temperature			
Single Use		Low Altitude (0 - 2,286m/7,500ft): 0 - 50 °C <32 - 122 °F> High Altitude (Over 2,286m/7,500ft): 0 - 45 °C <32 - 113 °F> 20% - 80% Humidity, No Condensation	
Operating Altitude		Over 1,500m/4,921ft with High Altitude Mode: 0 - 3,048m (0 -10,000ft)	
Direct Power On / Off		Yes	
Start-Up Period		Less than 9 seconds (Epson Logo); Warm-up Period: 20 seconds	
Quick Start-Up		Less than 9 seconds (Display)	
Cool Down Period		Instant Off	
Air Filter	Type	Electrostatic Filter	
	Maintenance Cycle*4	20,000 hours (Normal) / 30,000 hours (Extended)	
Power Supply Voltage		100 - 240 V AC ±10%, 50/60 Hz	
Power Consumption (220 - 240V)			
Laser Diode On	Normal	502 W	613 W
	Extended	410 W	483 W
Standby (Normal / Eco)		2.0 W / 0.5 W	
Dimension Excluding Feet (W x D x H)		545 x 436 x 164 mm	
Weight		Approx. 18.6kg	Approx. 18.8kg
Fan Noise (Normal / Eco)		35dB / 29dB	39dB / 29dB

*1 Colour brightness (colour light output) and white brightness (white light output) will vary depending on usage conditions. Colour light output measured in accordance with IDMS 15:4; white light output measured in accordance with ISO 21118.
*2 This light output value is measured at the centre of the screen as a reference value. There is no official standard for light output (Centre) measurements and this measurement is made based on the method set by Epson.
*3 These modes and actual data throughputs depend on supported wireless mode of source devices and/or environment conditions.
*4 When used in the general office environment (the amount of floating dust: 0.04 - 0.2 mg/m3). Based on the Epson's in-house test results.

Supplied Accessories
Power Cable: 3m, 3 wire
Remote Control: Yes, with Alkaline AA Battery
Cable cover
User Guide

Optional Accessories
Air Filter: ELPAF46
External Air filter: ELPAF63
External Camera: ELPEC01
Wireless LAN unit: ELPAP11
Ceiling Mount: ELPMB67, ELPMB47, ELPMB48
Suspension Adapter: ELPFP15

Optional Lenses
Ultra Short Throw Lens:
ELPLX02S
Zoom Lens:
ELPLU03S, ELPLU04, ELPLW05, ELPLW06, ELPLW08, ELPLM08, ELPLM10, ELPLM11, ELPLM15, ELPLL08

EB-PQ2008B

EB-PQ2010B

Dealer's Stamp

Information correct at time of printing.
Printed August 2024

Find out more at **www.epson.com.sg/projects**

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Epson Customer Care Center 100G Pasir Panjang Road, #01-09 Interlocal Centre, Singapore 118523. Epson Helpdesk: 800 120 5564. Please refer to www.epson.com.sg/contact for opening hours.

SPECIFICATIONS

MODEL NUMBER		EB-PQ2213B	EB-PQ2216B
SKU Code		V11HB03880	V11HB04880
Projection Technology		RGB liquid crystal shutter projection system (3LCD)	
Specifications of Main Parts			
LCD	Size	1.04" wide panel with DMLA (C2 Fine, 12 bit, OD)	
	Native Resolution	1080p with 4K Crystal Motion (1920 x1080 x 4)	
	Resolution On Screen	4K UHD (3840 x2160)	
	Aspect Ratio	16:9	
Projection Lens	Type	Power Zoom, Power Focus	
	F-Number	1.8 – 2.3	
	Focal Length	36.0– 57.3 mm	
	Zoom Ratio	1.0 - 1.61	
	Throw Ratio	1.52 – 2.47	
	Lens Shift	Vertical: ±58% (Powered)	
		Horizontal: ±16% (Powered)	
Lightsource	Type	Laser Diode	
	Life (Normal / Extended)	20,000 hours / 30,000 hours	
Screen Size (Projected Distance)			
Zoom: Wide		60" – 1,000" [1.98 – 34.19 m]	
Zoom: Tele		60" – 1,000" [3.24 - 55.28 m]	
Brightness[*1]			
White Light Output (Normal / Eco)		13,000 lm / 9,100 lm	16,000 lm / 11,200 lm
Colour Light Output		13,000 lm	16,000 lm
Light Output (Center)[*2]		13,800 lm	17,000 lm
Contrast Ratio		Over 5,000,000:1	
Geometric Correction			
Projection Orientation		360° Free	
Vertical / Horizontal Keystone		±45° / ±30° with Middle Throw Zoom Lens	
Connectivity			
Digital Input	SDI (SD/HD/3G/12G-SDI)	1 (BNC)	
	HDMI	2 (HDCP 2.3)	
	HDBaseT	1 (HDCP 2.3)	
USB Input	USB Type A	2 (Port 1: For wireless LAN, SMF1, Firmware update, Copy OSD Setting, 5V/900mA Power supply / Content Playback; Port2: For ELPEC01, SMF1, Firmware update, Copy OSD Setting, 5V/900mA Power supply / Content Playback)	
	USB Type B	1 (For Firmware Update, Copy OSD Settings)	
Control I/O	RS-232C	1 (D-Sub 9pin)	
	Remote	Stereo Mini x 1	
Digital Output	SDI (SD/HD/3G/12G-SDI)	1 (BNC)	
	HDMI Out	1 (HDCP2.3)	
Audio Output	Stereo Mini	1	
Network	Wired LAN	RJ45 x 1 (100Mbps)	
	Optional Wireless	ELPAP11	
Wireless Specification (Optional Wireless LAN)			
Supported Speed for Each mode		Infrastructure: IEEE 802.11b (2.4GHz): 11 Mbps[*3], IEEE 802.11g (2.4GHz): 54 Mbps[*3], IEEE 802.11n (2.4GHz): 72.2 Mbps[*3], IEEE 802.11a (5GHz): 54 Mbps[*3], IEEE 802.11n (5GHz): 150 Mbps[*3] Access Point (Wi-Fi Direct): IEEE 802.11g (2.4GHz): 54 Mbps[*3], IEEE 802.11n (2.4GHz): 72.2 Mbps[*3], IEEE 802.11a (5GHz): 54 Mbps[*3], IEEE 802.11n (5GHz): 150 Mbps[*3]	
Supported Mode		Infrastructure, Access Point (Wi-Fi Direct)	
Supported Security Type		Infrastructure: Open, WPA2 / WPA3-PSK, WPA2 / WPA3-EAP Supported EAP Type: PEAP, PEAP-TLS, EAP-TLS, EAP-Fast Access Point (Wi-Fi Direct): WPA2-PSK (AES)	
Operating Temperature			
Single Use		Low Altitude (0 - 2,286m/7,500ft): 0 - 50 °C <32 - 122 °F> High Altitude (Over 2,286m/7,500ft): 0 - 45 °C <32 - 113 °F> 20% - 80% Humidity, No Condensation	
Operating Altitude		Over 1,500m/4,921ft with High Altitude Mode: 0 - 3,048m (0 -10,000ft)	
Direct Power On / Off		Yes	
Start-Up Period		Less than 9 seconds (Epson Logo); Warm-up Period: 20 seconds	
Quick Start-Up		Less than 9 seconds (Display)	
Cool Down Period		Instant Off	
Power Supply Voltage		100 - 240 V AC ±10%, 50/60 Hz	
Power Consumption (220 - 240V)			
Laser Diode On	Normal	925 W	1,114 W
	Extended	666 W	784 W
Standby (Normal / Eco)		2.0 W / 0.5 W	
Dimension Excluding Feet (W x D x H)		586 x 492 x 185 mm	
Weight		Approx. 28.8kg	Approx. 29.2kg
Fan Noise (Normal / Eco)		37dB / 34dB (36dB use ELPLX02 only)	44dB / 36dB

[*1] Colour brightness (colour light output) and white brightness (white light output) will vary depending on usage conditions. Colour light output measured in accordance with IDMS 15:4; white light output measured in accordance with ISO 21118.
[*2] This light output value is measured at the centre of the screen as a reference value. There is no official standard for light output (Centre) measurements and this measurement is made based on the method set by Epson.
[*3] These modes and actual data throughputs depend on supported wireless mode of source devices and/or environment conditions.

Supplied Accessories
Power Cable: 3m, 3 wire
Remote Control: Yes, with Alkaline AA Battery
Cable cover
User Guide

Optional Accessories
External Camera: ELPEC01
Wireless LAN unit: ELPAP11
Ceiling Mount: ELPMB67, ELPMB47, ELPMB48
Suspension Adapter: ELPFP15

Optional Lenses
Ultra Short Throw Lens:
ELPLX02S
Zoom Lens:
ELPLU03S, ELPLU04, ELPLW05, ELPLW06, ELPLW08, ELPLM08, ELPLM10, ELPLM11, ELPLM15, ELPLL08

EB-PQ2213B / EB-PQ2216B

Dealer's Stamp

Information correct at time of printing.
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Epson Customer Care Center 100G Pasir Panjang Road, #01-09 Interlocal Centre, Singapore 118523. Epson Helpdesk: 800 120 5564. Please refer to www.epson.com.sg/contact for opening hours.

SPECIFICATIONS

MODEL NUMBER		EB-PQ2220B
SKU Code		V11HB05880
Projection Technology		RGB liquid crystal shutter projection system (3LCD)
Specifications of Main Parts		
LCD	Size	1.04" wide panel with DMLA (C2 Fine, 12 bit, OD)
	Native Resolution	1080p with 4K Crystal Motion (1920 x1080 x 4)
	Resolution On Screen	4K UHD (3840 x2160)
	Aspect Ratio	16:9
Projection Lens	Type	Power Zoom, Power Focus
	F-Number	1.8 – 2.3
	Focal Length	36.0– 57.3 mm
	Zoom Ratio	1.0 - 1.61
	Throw Ratio	1.52 – 2.47
	Lens Shift	Vertical: ±58% (Powered)
		Horizontal: ±16% (Powered)
Lightsource	Type	Laser Diode
	Life (Normal / Extended)	20,000 hours / 30,000 hours
Screen Size (Projected Distance)		
Zoom: Wide		60" – 1,000" [1.98 – 34.19 m]
Zoom: Tele		60" – 1,000" [3.24 - 55.28 m]
Brightness[*1]		
White Light Output (Normal / Eco)		20,000 lm / 14,000 lm
Colour Light Output		20,000 lm
Light Output (Center)[*2]		21,300 lm
Contrast Ratio		Over 5,000,000:1
Geometric Correction		
Projection Orientation		360° Free
Vertical / Horizontal Keystone		±45° / ±30° with Middle Throw Zoom Lens
Connectivity		
Digital Input	SDI (SD/HD/3G/12G-SDI)	1 (BNC)
	HDMI	2 (HDCP 2.3)
	HDBaseT	1 (HDCP 2.3)
USB Input	USB Type A	2 (Port 1: For wireless LAN, SMF1, Firmware update, Copy OSD Setting, 5V/900mA Power supply / Content Playback; Port2: For ELPEC01, SMF1, Firmware update, Copy OSD Setting, 5V/900mA Power supply / Content Playback)
	USB Type B	1 (For Firmware Update, Copy OSD Settings)
Control I/O	RS-232C	1 (D-Sub 9pin)
	Remote	Stereo Mini x 1
Digital Output	SDI (SD/HD/3G/12G-SDI)	1 (BNC)
	HDMI Out	1 (HDCP2.3)
Audio Output	Stereo Mini	1
Network	Wired LAN	RJ45 x 1 (100Mbps)
	Optional Wireless	ELPAP11
Wireless Specification (Optional Wireless LAN)		
Supported Speed for Each mode		Infrastructure: IEEE 802.11b (2.4GHz): 11 Mbps[*3], IEEE 802.11g (2.4GHz): 54 Mbps[*3], IEEE 802.11n (2.4GHz): 72.2 Mbps[*3], IEEE 802.11a (5GHz): 54 Mbps[*3], IEEE 802.11n (5GHz): 150 Mbps[*3] Access Point (Wi-Fi Direct): IEEE 802.11g (2.4GHz): 54 Mbps[*3], IEEE 802.11n (2.4GHz): 72.2 Mbps[*3], IEEE 802.11a (5GHz): 54 Mbps[*3], IEEE 802.11n (5GHz): 150 Mbps[*3]
Supported Mode		Infrastructure, Access Point (Wi-Fi Direct)
Supported Security Type		Infrastructure: Open, WPA2 / WPA3-PSK, WPA2 / WPA3-EAP Supported EAP Type: PEAP, PEAP-TLS, EAP-TLS, EAP-Fast Access Point (Wi-Fi Direct): WPA2-PSK (AES)
Operating Temperature		
Single Use		Low Altitude (0 - 2,286m/7,500ft): 0 - 50 °C <32 - 122 °F> High Altitude (Over 2,286m/7,500ft): 0 - 45 °C <32 - 113 °F> 20% - 80% Humidity, No Condensation
Operating Altitude		Over 1,500m/4,921ft with High Altitude Mode: 0 - 3,048m (0 -10,000ft)
Direct Power On / Off		Yes
Start-Up Period		Less than 9 seconds (Epson Logo); Warm-up Period: 20 seconds
Quick Start-Up		Less than 9 seconds (Display)
Cool Down Period		Instant Off
Power Supply Voltage		100 - 240 V AC ±10%, 50/60 Hz
Power Consumption (220 - 240V)		
Laser Diode On	Normal	1,431 W
	Extended	975 W
Standby (Normal / Eco)		2.0 W / 0.5 W
Dimension Excluding Feet (W x D x H)		586 x 492 x 185 mm
Weight		Approx. 29.2kg
Fan Noise (Normal / Eco)		48dB / 39dB

[*1] Colour brightness (colour light output) and white brightness (white light output) will vary depending on usage conditions. Colour light output measured in accordance with IDMS 15:4; white light output measured in accordance with ISO 21118.
[*2] This light output value is measured at the centre of the screen as a reference value. There is no official standard for light output (Centre) measurements and this measurement is made based on the method set by Epson.
[*3] These modes and actual data throughputs depend on supported wireless mode of source devices and/or environment conditions.
[*4] When used in the general office environment (the amount of floating dust: 0.04 - 0.2 mg/m3). Based on the Epson's in-house test results.

Supplied Accessories
Power Cable: 3m, 3 wire
Remote Control: Yes, with Alkaline AA Battery
Cable cover
User Guide

Optional Accessories
External Camera: ELPEC01
Wireless LAN unit: ELPAP11
Ceiling Mount: ELPMB67, ELPMB47, ELPMB48
Suspension Adapter: ELPFP15

Optional Lenses
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Zoom Lens:
ELPLU03S, ELPLU04, ELPLW05, ELPLW06, ELPLW08, ELPLM08, ELPLM10, ELPLM11, ELPLM15, ELPLL08

EB-PQ2220B

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