EB-PQ2220B

DATASHEET / BROCHURE

Perfect for anyone needing an ultra-high resolution experience, the EB-PQ2220B is the world's most compact 20,000lm 4K projector[1].

Designed to engage and captivate audiences with ultra-high resolution, large format content, the EB-PQ2220B uses 3LCD technology to deliver outstanding colour reproduction, while Epson's patented 4K Crystal Motion technology offers stunning image quality. Affordable and energy-efficient, the projector also features interchangeable lenses, a light and compact design and extensive connectivity.

The world's smallest and lightest 20,000lm 4K projector[1]
Building on the success of the EB-PU Series, the EB-PQ2220B is not only the smallest and lightest in its class, but is highly affordable, versatile, extremely energy-efficient and packed with advanced features.

A revolutionary 4K experience
Marvel at the clarity of the images produced by Epson’s latest 4K technology. Combining its patented, state of the art 4K Crystal Motion, panel thermo-control and double micro-lens array technologies, Epson achieves a new benchmark in 4K image quality.

Fantastically flexible
Featuring a wide range of connectivity, including 12G SDI in/out and HDMI in/out supporting 120Hz 4K. This high brightness projector also benefits from cross-platform lens compatibility, using the same 4K lenses as the existing EB-PU Series, including the ELPLX02S zero-offset ultra-short throw lens which is perfect for immersive spaces. This projector is supplied 'body-only', allowing you to build the perfect solution for your installation.

Reliable
Built for exceptional reliability, the EB-PQ2220B features IP5X rated dust resistance[2] and up to 20,000 hours maintenance-free operation, or even longer in extended modes.

Extensive software
Compatible with the ELPEC01 camera, Epson Projector Professional Tool and Epson Projector Config Tool for a wealth of calibration, assistance and control functionality.

KEY FEATURES

- **Patented 4K and imaging technology**
  Outstanding 4K image quality delivers superb immersivity
- **Ultra-compact and lightweight**
  The world's smallest and lightest 20,000lm 4K projector[1]
- **Cross-platform lens compatibility**
  Lets you build the optimal projection solution for every requirement
- **Fit-and-forget reliability**
  Filter-free design and IP5X dust resistance[2]
- **Reduced environmental impact**
  Energy-efficient with reduced requirements for packaging and transport
- **Legal Statement**
  Complies with The UK Product Security and Telecommunications Infrastructure (Product Security) requirements. Epson will provide security updates for 7 years from purchase

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PRODUCT SPECIFICATIONS

TECHNOLOGY	
Projection System	3LCD Technology, RGB liquid crystal shutter
LCD Panel	1.04 inch with C2 Fine
IMAGE	
Color Light Output	20,000 Lumen- 14,000 Lumen (economy) In accordance with IDMS15.4
White Light Output	20,000 Lumen - 14,000 Lumen (economy) In accordance with ISO 21118:2020
Portrait Colour Light Output	20,000 lm
Portrait White Light Output	20,000 lm
Resolution	4K (3840 x 2160)
Aspect Ratio	16:9
Contrast Ratio	Over 5,000,000 : 1
Native Contrast	3,000 : 1
Light source	Laser
Laser Light source	20,000 hours Durability High, 30,000 hours Durability Eco
Keystone Correction	Manual vertical: ±45 °, Manual horizontal ±30 °
Colour Video Processing	10 Bits
Colour Reproduction	Upto 1.07 billion colours
HDR support	HDR10, HLG
OPTICAL	
Throw Ratio	0.34 - 7.16:1, Varies by lens
Zoom	Motorized, Varies by lens
Lens	Optical
Lens Shift	Varies by lens
Screen Size	Varies by lens
Projection Distance Wide	Varies by lens
Projection Distance Tele	Varies by lens
Projection Distance Wide/Tele	Varies by lens
Projection Lens F Number	Varies by lens
Projection Lens Focal Length	Varies by lens
Projection Lens Focus	Motorized
Offset	Varies by lens
Interchangeable Lens	Yes
Standard Lens	Not included
Mechanical shutter	Yes
CONNECTIVITY	
Interfaces	USB 2.0-A (2x), USB 2.0 Type B (Service Only), RS-232C, Ethernet interface (100 Base-TX / 10 Base-T), Wireless LAN IEEE 802.11a/b/g/n (optional), HDMI in (2x), HDMI out, HDBaseT, Jack plug out, Near Field Communication (NFC), USB content playback, Remote, 12G SDI Input, 12G SDI Output
Network Protocol	HTTPS, IPv6, SNMP, ESC/VP.net, PJLink
ADVANCED FEATURES	
Security	Kensington lock, Control panel lock, Padlock, Wireless LAN unit lock, Wireless LAN security, Password protection
Other features	21:9 aspect ratio support, A/V mute, Auto Power On, Auto source search, Direct Power on/off, Edge Blending, Frame interpolation, Freeze image, Horizontal and vertical keystone correction, Lens position memory, Long light source life, OSD copy function, Point correction, Quick Corner, Schedule Function, Web Control, Wireless LAN capable, iProjection App
Video Color Modes	Cinema, Dynamic, Natural, Presentation, DICOM SIM, Multi Projection, BT709
Projector control	via: Crestron Integrated Partner, Extron IP Link, Extron XTP, AMX Device Discovery
Sealed Light Source Module	Yes, IP5X rated
Sealed Optical Engine	Yes, IP5X rated

WHAT'S IN THE BOX

- Cable cover
- Lens connector cap
- Main unit
- Power cable
- Remote control incl. batteries
- Information sheet
- Quick Start Guide
- Document Pack

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PRODUCT SPECIFICATIONS

EB-PQ2220B

GENERAL	
Power consumption	1,325 Watt (Normal On-Mode), 1,431 Watt (Normal Peak-mode), 975 Watt (Eco Peak-Mode), 0.5 Watt (Energy saving standby)
Heat Dissipation	4,865 BTU/hour (max)
Supply Voltage	AC 100 V - 240 V, 50 Hz - 60 Hz
Product dimensions	586 x 492 x 218 mm (Width x Depth x Height)
Product weight	29.2 kg
Noise Level	Normal:48 dB (A) - Economy:39 dB (A)
Supported Temperature	Storage -10° C - 60° C
Supported Humidity	Operation 20% - 80%, Storage 10% - 90%
	Improper installation of the projector on a ceiling or wall may cause it to fall, leading to potential injury or damage. To prevent this, ensure the ceiling mount is securely fastened using all mounting points specified in the projector's user guide which is available to download from our support website (www.epson.eu/support). We recommend the use of Epson-approved ceiling mounts that are compatible with the projector model. Additionally, attach a safety wire of adequate strength to secure the projector to the ceiling mount. If the projector is suspended from a ceiling or wall mount and installed in an environment with heavy oil smoke or places where oils or chemicals are volatilized, places where a lot of smoke or bubbles are used for event staging, or where aroma oils are frequently burned, it can make certain parts of our products susceptible to a material degradation which over time could break and cause the projector to drop from the ceiling. We recommend that the equipment be inspected on a regular basis, either by the user or by a qualified professional, to ensure continued safe operation. If you are concerned about the environment in which your projector is installed, or if you have any other questions, please contact our support department and they can provide additional assistance.
Included Software	Epson Creative Projection, Epson Projector Config Tool, Epson Projector Content Manager, Epson Projector Management, Epson Projector Professional Tool
Options	Camera module, Ceiling mount, Wireless LAN unit
Room Type / Application	Large Meeting Room/Boardroom, Auditorium, Meeting room / Classroom, Projection Mapping, Rental / Staging, Signage / Retail, Visitor Attraction
Positioning	Ceiling Mounted, Desktop, Floor, Truss Mount, Table Mounted, Wall Mounted
Colour	Black
OTHER	
Warranty	36 months Carry in Optional warranty extension available

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OPTIONAL ACCESSORIES

- Stacking Frame - ELPMB84 - EB-PU2200 Series
  V12H006AW0
- Wireless LAN Adapter - ELPAP11 (2.4GHz & 5GHz)
  V12H005A01
- Camera Unit - ELPEC01
  V12HA46010
- Ceiling Mount - ELPMB68
  V12H006AE0
- Portrait Adaptor - ELPMB78 - EB-PU Series
  V12H006AQ0
- Rail Adaptor - ELPMB85 - EB-PU Series
  V12H006AX0
- Tilt Adaptor - ELPMB81 - EB-PU Series
  V12H006AT0
- Stacking Frame - ELPMB59 - EB-PU2200 Series (EVO)
  V12H996B59
- Extension Pole - ELPMB70 - For ELPMB68
  V12H006AG0

OPTIONAL LENSES	Throw Ratio:	Lens Shift:	Screen Size	Zoom	Weight
Lens - ELPLL08 - Long throw - EB-PU Series V12H004L08	5.09 - 7.16:1			V: ±64% H: ±16%	
Lens - ELPLM10 - Mid throw 3 - EB-PU Series V12H004M0A	2.34 - 3.59:1			V: ±64% H: ±16%	
Lens - ELPLM11 - Mid throw 4 - EB-PU Series V12H004M0B	3.42 - 5.23:1			V: ±64% H: ±16%	
Lens - ELPLM15 - Mid throw - EB-PU Series V12H004M0F	1.52 - 2.47:1			V: ±64% H: ±16%	
Lens - ELPLU03S - Short throw off axis 1 - EB-PU Series V12H004UA3	0.46 - 0.56:1			V: ±25% H: ±8%	
Lens - ELPLU04 - Short throw off axis 2 - EB-PU Series V12H004U04	0.62 - 0.75:1			V: ±64% H: ±16%	
Lens - ELPLW05 - Wide zoom 1 - EB-PU Series V12H004W05	0.74 - 1.04:1			V: ±25% H: ±8%	
Lens - ELPLW06 - Wide zoom 2 - EB-PU Series V12H004W06	1.15 - 1.57:1			V: ±64% H: ±16%	
Lens - ELPLW08 - Wide throw - EB-PU2000 Series V12H004W08	0.83 - 1.17:1			V: ±64% H: ±16%	
Lens - ELPLX02S - UST - EB-PU2000 Series V12H004X0B	0.34:1			V: +30% H: ±13%	

LOGISTICS INFORMATION

SKU	V11HB05880
EAN code	8715946718965
Country of Origin	China
Layer	1 Units
Layer Block	1 Units

1. As of January 2024. Main unit without lens. 20,000lm in accordance with ISO 21118.
2. IP5X certified in accordance with IEC Standard 60529. The IP5X certification is applied to the optical engine and light source module.
3. 4K (3840 x 2160) is the maximum physical resolution achieved using 4K Crystal Motion technology.
4. Energy efficient based on the power consumption data publicly available for comparable market leading products. Reductions in packaging and transportation requirements assumed based on physical product size and weight and/or packaging size and weight data available for comparable market leading products. As of February 2024.

For more information please contact:

Home users: 0343 90 37766
Business users*: 0871 42 37766
Republic of Ireland: 01 436 7742
Or visit us at https://www.epson.co.uk/contactus
* 10p per minute plus network extras.

Web: www.epson.co.uk
www.epson.ie

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