

EB-PQ2220B

20,000-Lumen 4K 3LCD Laser Projector



The world's smallest and lightest 20,000-lumen 4K projector



The world's smallest and lightest 20,000-lumen 4K projector¹: produces incredibly bright images with a light, compact and energy efficient design

Incredible color: Epson 3-chip 3LCD technology produces 20,000 lumens of equal white and color brightness²

4K resolution on-screen: leverages Epson's 4K Crystal Motion technology, thermo-controlled panel and double micro-lens array for crystal clear image quality that fully realizes 4K resolution (3840 x 2160)

Robust, high-reliability design: virtually maintenance-free 20,000-hour laser light source³; IP5X-rated hermetically sealed optical and light source module for high dust resistance; filterless cabinet; optimized liquid cooling system

Stunning image quality: high native contrast ratio for deep blacks; 50% improvement over the already high contrast ratio found with the current Epson EB-PU Series; frame interpolation for fast moving objects; HDR support⁴ and scene adaptive gamma correction

Simplified installation: 9 optional powered lenses (sold separately) including ultra short throw 0,35 throw lens with a unique zero offset design for installation flexibility; projector compatible with existing Epson lens family

Enhanced connectivity: HDMI[®] two in and one out; 12G-SDI in/out for daisy chaining and signal monitoring; features automatic input switching when input signal is disrupted

Versatile power source options: requires 220 V power for full brightness; can operate at 16,000 lumens from a standard 120 V power source for setup and installation

Low latency performance and high frame rate support: high-speed graphics chip and panel drive technology enable high frame rate 4K playback

Optional attachable PixAlign™ external camera: access powerful automated tools including edge blending assist⁵, stacking assist function⁵, auto color calibration⁶ and screen matching⁶ with or without a connected PC and router

Specifications

Projection System High-aperture Epson 3-chip 3LCD technology
Projection Method Front/rear/ceiling mount
Driving Method Poly-Silicon TFT Active Matrix
Pixel Number 2,073,600 pixels (1920 x 1080) x 3 chips
Signal Input Maximum Display Resolution: 4096 x 2160 pixels (resizing display)
Native Resolution 1080p with 4K Crystal Motion (1920 x 1080 x 3)
 Resolution on Screen 4K UHD (3840 x 2160)
Aspect Ratio Supports 4:3, 16:10, 16:9*, 21:9*
 *With vertical image shift control within letterbox area.
Pixel Arrangement Cross stripe
Color Brightness² Color Light Output: 20,000 lumens
White Brightness² White Light Output: 20,000 lumens
Contrast Ratio Up to 5,000,000:1 (Dynamic Contrast: 0)
Brightness Uniformity (Typical) 85%
Color Reproduction Up to 1.07 billion colors
Keystone Correction
 Vertical: ±45 degrees;
 Horizontal: ±30 degrees
Illumination Technology Laser Phosphor
Light Source Life³
 20,000 hours (Normal Mode)
 30,000 hours (Extended Mode)"

Projection Lens (Standard)

Visit www.epson.com for information on optional lenses.
Standard Lens ELPLM15 (sold separately)
Type Powered shift/focus/zoom
F-Number 2.0 – 2.1
Focal Length 14.8 mm – 17.7 mm
Zoom Ratio Optical Zoom: 1.0 – 1.6
Throw Ratio Range 1.52 – 2.47
Lens Shift Vertical: ±60%; Horizontal: ±18%

Other Features

Operating Temperature 32 °F to 122 °F (0 °C to 50 °C)
Power Supply Voltage 100 – 120 V AC +/- 10%, 50/60 Hz
 200 – 240 V AC +/- 10%, 50/60 Hz
Power Consumption (220-240 V)
 1,431 W (Normal/Custom)
 975 W (Quiet/Extended)
 2.0 W Standby (Network Standby)
 0.5 W Standby (Energy Saving)
 Fan Noise 48 dB (Normal Mode); 39 dB (Eco Mode)
IP Rating IP5X⁷
Security Security cable hole, lens lock, Kensington® lock provision, wireless LAN unit lock

Interfaces

12G-SDI In/Out
 HDMI (HDCP 2.3) x 2/HDMI Out x 1
 HDBaseT x 1
 Variable Audio Out: Mini Stereo x 1
 USB Type-B x 1
 USB Type-A x 2 (5 V, 2.0 A)
 USB Type-A for Wireless LAN (optional)
 Serial: RS-232c x 1 (9-pin)
 Remote Stereo Mini
 Network: RJ-45

Video I/O

Input Signal Input Video Signal (HDMI and HDBaseT® ports)
 480i/480p/576i/576p/720p/1080i/1080p/3840 x 2160/4096 x 2160
Auto Power On Signal Detection on HDMI/Plug-In Detection (HDMI)
Sleep Mode Yes (with timer)
HDMI CEC Control Yes

Dimensions (W x D x H)

Excluding Feet 23.1" x 19.4" x 7.3" (586 mm x 492 mm x 185 mm)
Weight 64.3 lb (29.2 kg)

Remote Control

Features Power, Source Search Selection, Lens Shift/Zoom/Focus, Test Pattern Selection, Shutter, Freeze, ID, Color Mode, Number, E-Zoom, Volume, Menu, Enter, ESC, Pointer Functions, Blend Guides, Multi-Projection, Color Tone Adjust and Memory
Operating Angle
 Front: Right/Left: 60 to +60; Upper/Lower: +30 to 30 degrees
 Rear: Right/Left: 30 to +30; Upper/Lower: +40 to +5 degrees"
Operating Distance 98 ft

Eco Features

RoHS compliant



Limited Warranty and Service

Warranty The projector has a 2-year limited warranty and an additional year by registering the product⁸.
Service Toll-free telephone support, Monday through Friday
Epson ConnectionSM
Website: latin.epson.com
 Other extended service plans may be available.

What's Included

EB-PQ220B projector, two cables (220 V – 240 V power cable x 1 and 100 V – 120 V power cable x 1), remote control with 2 batteries, cable cover, quick reference guide and warranty sheet

Ordering Information

EB-PQ220B	V11HB05820
Ultra Short Throw Lens (ELPLX02S)	V12H004X0B
Short Throw #1 Zoom Lens (ELPLU03S)	V12H004UA3
Short Throw #2 Zoom Lens (ELPLU04)	V12H004U04
Wide Throw #2 Zoom Lens (ELPLW06)	V12H004W06
Wide Throw #3 Zoom Lens (ELPLW08)	V12H004W08
Middle Throw #2 Zoom Lens (ELPLM15)	V12H004M0F
Middle Throw #3 Zoom Lens (ELPLM10)	V12H004M0A
Middle Throw #4 Zoom Lens (ELPLM11)	V12H004M0B
Long Throw Zoom Lens (ELPLL08)	V12H004L08
Wireless LAN Module (ELPAP11)	V12H005A02
PixAlign Camera (ELPEC01)	V12HA46010

¹ Comparison based on 4K projectors rated at 20,000 lumens. Lumens, resolution, size and weight based on the manufacturers' online specifications and industry-available data as of October 2023. | ² Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118. | ³ No required maintenance for the light source for up to 20,000 hours (Normal Mode), 30,000 hours (Extended Mode). Approximate time until brightness decreases 50% from first usage. Measured by acceleration test assuming use of 0.04 - 0.20 mg/m³ of particulate matter. Time varies depending on usage conditions and environment. Replacement of parts other than the light source may be required in a shorter period. | ⁴ HDR performance available with select third-party devices. For more information, see www.epson.com/hdrcompatibility | ⁵ Requires Epson external camera for each projector and may require Epson Projector Professional Tool app. | ⁶ Using separate camera for each projector. | ⁷ IP5X-certified optical engine and laser light source module in accordance with IEC standard 60529. | ⁸ This Epson product is covered by a limited warranty of 2 years from the date of purchase, that is, from the date of issuance of the purchase invoice to the original purchaser. To be eligible for Epson's 3-year Extended Limited Warranty (1 additional year), you must register your product at latin.epson.com/garantia within 30 days of your purchase date, i.e. from the date of the original purchase invoice.

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Contact:

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