

EB-PU2220B 20,000-Lumen 3LCD Large Venue Laser Projector with 4K Enhancement

Projectors

Large Venue

Ultra Bright

Color Brightness: 20,000 lumens¹

White Brightness: 20,000 lumens¹



Product shown with lens.
Lens sold separately.

The world's smallest and lightest 20,000-lumen projector².

The world's smallest and lightest 20,000-lumen projector² — produces incredibly bright images from a light and compact body

Incredible color — Epson[®] 3-chip 3LCD technology produces 20,000 lumens of equal white and color brightness¹

WUXGA with 4K Enhancement³ — accepts 4K content and delivers up to 4.6 million pixels on-screen for an incredibly crisp and vibrant image

Long-lasting laser light source — 20,000-hour virtually maintenance-free laser light source⁴

Simplified installation — 9 optional powered lenses (sold separately), including an ultra short-throw .35 throw lens with unique zero offset design, provide enhanced flexibility and convenience during installation

Engineered for reliability — hermetically sealed optical engine offers high dust resistance while filterless cabinet and liquid cooling system support easy, low-maintenance operation

Ideal for live event applications — 3G-SDI input and output easily accommodate daisy-chaining and long cable runs; mechanical shutter helps protect projector during laser light shows

Outstanding image quality — high native contrast ratio produces deep blacks; frame interpolation delivers realistic moving images; HDR support⁵ and scene adaptive gamma correction for true-to-life images

Fast installation — built-in NFC functionality⁶ to streamline multi-projector installations using the easy-to-use Epson Projector Configuration Tool (EPCT)⁷ mobile app for Android™ and iOS[®]



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Specifications

Projection System High-aperture Epson 3LCD, 3-chip technology
Projection Method Front/rear/ceiling mount
Driving Method Poly-silicon TFT Active Matrix
Pixel Number 2,304,000 dots (1920 x 1200) x 3
Signal Input Maximum Display Resolution: 4096 x 2160 (resizing display); Display Resolution: 1920 x 1200 pixels
Native Resolution WUXGA with 4K Enhancement¹ (1920 x 1200 x 2)
Resolution on Screen WUXGA with 4K Enhancement¹/4.6 million pixels
Aspect Ratio Supports 4:3, 16:9, 16:10
Pixel Arrangement Cross stripe
Color Brightness² Color Light Output: 20,000 lumens
White Brightness² White Light Output: 20,000 lumens
Contrast Ratio 2,500,000:1 (Dynamic Contrast: On)
Brightness Uniformity (Typical) 85%
Color Reproduction Up to 1.07 billion colors
Lens Shift Vertical: ±60%; horizontal: ±18%
Keystone Correction Vertical: ±45 degrees; horizontal: ±30 degrees
Illumination Technology Laser Diode

Projection Lens (Standard)

See website 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 1.57 – 2.56
Lens Shift Vertical: ±60%; horizontal: ±18%

Other Features

Operating Temperature 32 ° to 122 °F (0 ° to 50 °C)
Power Supply Voltage 220 – 240 V ± 10%, 50/60 Hz AC
Power Consumption
 1,301 W (Normal / Custom)
 899 W (Quiet / Extended)
 2.0 W Standby (Network Standby)
 0.4 W Standby (Energy Saving)
Fan Noise 45 dB (Normal Mode); 37 dB (ECO)
IP Rating IP5X⁸
Security Security cable hole, lens lock, Kensington® lock provision, wireless LAN unit lock

Video I/O

Input Signal Input Video Signal (HDMI®, DVI-D and HDBaseT™ ports) 480i/480p/576i/576p/720p/1080i/1080p/3840 x 2160/4096 x 2160

Interfaces

3G-SDI in/out
 HDMI x 1 (HDCP 2.3)
 HDBaseT x 1
 DVI-D x 1
 VGA 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 Mini Stereo
 Network: RJ-45



Dimensions / Weight

Including Feet (W x D x H) 23.1" x 19.4" x 8.6"
Weight 53.7 lb (24.4 kg)

Remote Control

Features Power; Source Search Selection; Lens Shift/Zoom/Focus; Test Pattern Selection; A/V Mute, Freeze, User ID, Auto Aspect, Color Mode, Number, Page Up and Down, E-Zoom, Volume, Help, Menu, Enter, ESC and Pointer Functions
Operating Angle
 Front: Right/Left: 60 to +60; Upper/Lower: +30 to 30 degrees
 Rear: Right/Left: 30 to +30; Upper/Lower: +40 to +10 degrees
Operating Distance 98 ft

Eco Features

RoHS compliant
 Recyclable product⁴
 Epson America, Inc. is a SmartWay® Transport Partner¹⁰

Support

Epson ConnectionSM
 Pre-sales support: U.S. and Canada: 800-463-7766
 Internet website: www.epson.com

Service Programs

The projector has a limited warranty of 3 years

What's in the Box

EB-PU2220B projector, power cable, remote control with two batteries, cable cover, user guide and warranty sheet

Ordering Information

Epson EB-PU2220B	V11HA66820
Ultra Short-Throw Lens (ELPLX02S)	V12H004X0B
Ultra Short-Throw Lens - White (ELPLX02WS)	V12H004Y0B
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
Rigging Frame (ELPMB59)	V12H996A01
Wireless LAN Module (ELPAP11)	V12H005A02
Projector Ceiling Mount (ELPMB67)	V12HA54010
Suspension Adapter (ELPFP15)	V12HA55010
PixAlign™ Camera (ELPEC01)	V12HA46010

¹ 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. | ² Comparison based on projectors rated at 20,000 lumens. Lumens, size and weight based on the manufacturers' online specifications and industry-available data as of December, 2021. Excludes other Epson models. | ³ 4K Enhancement Technology shifts each pixel to surpass Full HD resolution on screen. | ⁴ No required maintenance for the light source for up to 20,000 hours. 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. | ⁵ HDR performance available with select third-party devices. For more information, see www.epson.com/hdrcompatibility | ⁶ NFC requires use of a device that includes NFC, and may require additional software. | ⁷ Internet connection required for download. Data usage fee may apply. | ⁸ IP5X-certified optical engine and laser light source module in accordance with IEC standard 60529. | ⁹ For convenient and reasonable recycling options, visit www.epson.com/recycle | ¹⁰ SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.

See the latest innovations from Epson Business Solutions at www.epson.com/forbusiness

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