

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

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.

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