

EB-PU2220B

20,000-Lumen 3LCD Large Venue Laser Projector with 4K Enhancement¹

Ultra Bright:
Color Brightness: 20,000 lumens²
White Brightness: 20,000 lumens²



Premium large venue laser projector with 4K Enhancement¹.



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

WUXGA with 4K Enhancement¹ — accepts 4K content and delivers up to 4.6 million pixels on-screen (1920 x 1200 x 2) for an incredibly crisp and vibrant image

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

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

Installation flexibility — provides full brightness from 220 V power and up to 19,000 lumens² from a standard 120 V power source

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 support⁴ and scene adaptive gamma correction for true-to-life images

Fast installation — built-in NFC functionality⁵ and easy-to-use Android[®] and iOS[®] mobile app, Epson Projector Configuration Tool (EPCT)⁶, to streamline multi-projector installations

Optional attachable PixAlign™ camera — provides access to powerful features, including projector stacking assist function⁷, blending assist⁷ for edge blends, color calibration⁸ and screen matching⁸ from the projector menu or Epson Projector Professional Tool (EPPT) app⁹

Simple Blending and Simple Stacking functions⁸ — for fast blending or stacking of two projectors using a remote controller instead of conventional setup with a PC and router; requires optional attachable PixAlign camera⁸

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 2,304,000 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, 16:10, 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 5,000,000:1 (Dynamic Contrast: On)

Brightness Uniformity (Typical) 85%

Color Reproduction Up to 1.07 billion colors

Keystone Correction Vertical: ±45 degrees;
Horizontal: ±30 degrees

Illumination Technology Laser Diode

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 – 1.6x

Throw Ratio Range 1.57 – 2.56

Lens Shift Vertical: ±60%; Horizontal: ±18%

Other Features

Operating Temperature 32 °F to 122 °F (0 °C to 50 °C)

Power Supply Voltage
100 V – 120 V AC +/-10%, 50/60 Hz,
200 V – 240 V AC +/-10%, 50/60 Hz

Power Consumption (220 V – 240 V)
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 IP5X¹⁰

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

Auto Power On Signal Detection on HDMI/Plug-In Detection (HDMI, VGA 15-Pin)

Sleep Mode Yes (with timer)

HDMI CEC Control Yes

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 (W x D x H) and Weight

Including Feet 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
End-of-life options available¹¹
Epson America, Inc. is a SmartWay® Transport Partner¹²

Limited Warranty and Service

Warranty Three-year limited in the U.S. and Canada
Service Toll-free telephone support, Monday through Friday
Epson ConnectionSM
Pre-Sales Support (U.S. and Canada): 800-463-7766
Website: www.epson.com

Epson PreferredSM Plus Extended Service Plan

3-Year Upgrade to Next-Business-Day Whole Unit Exchange¹³ for Years 1-3 EPPPRJPU3
5-Year Next-Business-Day Whole Unit Exchange¹³ for Years 1-5 EPPPRJPU20E5
Other extended service plans may be available.



What's Included

EB-PU2220B 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-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
Stacking Frame (ELPMB84)	V12H006AW0
Mounting Tilt Plate (ELPMB77)	V12H006AP0
Projector Ceiling Mount (ELPMB67)	V12HA54010
Fine Adjust Ceiling Mount (ELPMB68)	V12H006AE0
PixAlign Camera (ELPEC01)	V12HA46010
Wireless LAN Module (ELPAP11)	V12H005A02

1 4K Enhancement Technology shifts each pixel to surpass Full HD resolution on screen. | 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. 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 NFC requires use of a device that includes NFC and may require additional software. | 6 Epson Projector Configuration Tool app for Android and iOS. Internet connection required for download; data usage fee may apply. | 7 Requires Epson external camera or built-in camera for each projector and the Epson Projector Professional Tool app. | 8 Using separate camera for each projector. | 9 Mac® and PC only. | 10 IP5X-certified optical engine and laser light source module in accordance with IEC standard 60529. | 11 For convenient and reasonable recycling options, visit www.epson.com/recycle | 12 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency. | 13 Product comes with a 3-year limited warranty with the option to purchase extended service plans up to a total of 5 years of continuous coverage. Extended service plan must be purchased within 90 days of hardware purchase. Expedited shipping not available in all areas. Orders must be placed and processed by 1 p.m. Pacific Time, Monday through Friday, excluding holidays. See individual service plan for details.

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



Epson America, Inc.
3131 Katella Ave., Los Alamitos, CA 90720

Epson Canada Limited
185 Renfrew Drive, Markham, Ontario L3R 6G3

www.epson.com
www.epson.ca

Specifications and terms are subject to change without notice. EPSON and the 3LCD logo are registered trademarks of Seiko Epson Corporation. Epson Connection, Epson Preferred and PixAlign are trademarks of Epson America, Inc. Mac is a trademark of Apple Inc., registered in the U.S. and other countries. Android is a registered trademark of Google LLC. SmartWay is a registered trademark of the U.S. Environmental Protection Agency. All other product and brand names are trademarks and/or registered trademarks of their respective companies. Epson disclaims any and all rights in these marks. Copyright 2024 Epson America, Inc. CPD-62056R4 5/24

Contact:

