

PowerLite® L790U

7,300-Lumen WUXGA 3LCD
Laser Projector



Experience an incredibly
bright and compact projector
with pro-level features.



Ultra bright, true-to-life images — 3-chip 3LCD technology and 7,300 lumens of equal color and white brightness²

Full HD WUXGA resolution — accepts up to 4K signal and provides 1920 x 1200 resolution for vibrant, high-definition images

Large, versatile display options — easily create a display up to 500" diagonal in 16:10, plus ultra wide 16:6 and 21:9 aspect ratios for enhanced content display and visibility

Simplified installation — compact and lightweight design featuring wide vertical and horizontal lens shift, 1.6x optical zoom, 360-degree mounting, built-in geometric correction tools and a universal VESA mounting pattern

Low maintenance — up to 30,000-hour laser light source and air filter³ in Extended Mode

Wireless networking and content sharing⁴ — Wi-Fi® 6/6E allows for fast, reliable wireless connectivity for screen casting⁴, along with direct connection to the cloud-based service, Epson Projector Management Connected and WPA3-Enterprise security

Built-in NFC⁵ — reduces installation time of multiple projectors; read and write setting information using the Epson Projector Config Tool app

Optional attachable PixAlign™ camera — adds powerful multi-projector tools including screen matching⁶, auto color calibration⁶, blending assist⁷ for super wide displays and simple stacking⁷ without an external PC

Over-the-air updates⁸ — allows user to optionally be alerted when a Firmware update is available

Enhanced connectivity — HDBaseT® and HDMI® two in and one out for daisy-chaining and signal monitoring

Specifications

Projection System RGB liquid crystal shutter projection system
Projection Method Front/rear/ceiling mount
LCD Size 0.67" (C²Fine)
Driving Method Poly-Silicon TFT Active Matrix
Pixel Number 2,304,000 dots (1920 x 1200) x 3
Native Resolution 1920 x 1200 (WUXGA)
Resolution On-Screen 1920 x 1200 (WUXGA)
Resize 640 x 480, 800 x 600, 1280 x 1024, 1400 x 1050
Aspect Ratio Supports 4:3, 16:10, 16:9*, 16:6*, 21:9*
 * With vertical image shift control within letterbox area.
Pixel Arrangement Cross stripe
Color Brightness² Color light output: 7,300 lumens
White Brightness² White light output: 7,300 lumens
Contrast Ratio Over 5,000,000:1
Brightness Uniformity (Typical) 88%
Color Reproduction Up to 1.07 billion colors
Size (Projected Distance) 50" – 500"
Projected Distance 80" screen 2.33 m – 3.78 m
Lens Shift (Manual) Vertical: ±50%; Horizontal: ±20%
Keystone Correction Vertical: ±30 degrees;
 Horizontal: ±30 degrees
Light Source Laser Diode
Laser Light Source Life³ Normal: 20,000 hours; Quiet: 20,000 hours; Extended: 30,000 hours

Projection Lens (Standard)

Type Optical Zoom (manual)/Focus (manual)
F-Number 1.5 – 1.7
Focal Length 20.0 mm – 31.8 mm
Zoom Ratio 1.0 – 1.6x (optical)
Throw Rate Range 1.35 – 2.20 (optical)
Lens Cover Lens cap (without string)

Wireless Specifications

Frequency Type (Modulations) 802.11 b/g/n/ac/ax (2.4 GHz)
Supported Security Type Quick Mode: Open, WPA2/WPA3-PSK, WPA2/WPA3-EAP; Advanced Mode: WPA/WPA2-PSK, WPA/WPA2-EAP

Other Features

Operating Temperature 32 °F to 113 °F (0 °C to 45 °C)
Power Supply Voltage 100 V – 240 V ± 10%, 50/60 Hz AC
Auto Power On Signal Detection on HDMI/Plug-In Detection
Sleep Mode Yes (with timer)
HDMI CEC Control Yes
Power Consumption
 415 W (Normal Mode)
 305 W (Quiet and extended)
 2.4 W (Standby comm on)
 0.3 W (Standby comm off)
Fan Noise 34 dB (Normal Mode); max. 26 dB (ECO Mode)
Security Security cable hole, Kensington® lock provision
Miracast®⁴ Yes
Epson iProjection™⁴ Yes (V4)
Split Screen⁵ Yes (up to 2 screens)

Interfaces

HDMI (HDCP 2.3) x 2
 HDMI Out x 1
 HDBaseT x 1
 Variable Audio Out: Mini Stereo x 1
 USB Connector Type-A x 1
 USB Connector Type-B x 1
 Serial: RS-232c x 1
 Wired LAN RJ45 x 1
 Wireless LAN: Built-in



Other Features (Continued)

A/V Mute Yes
Camera Yes
Speaker(s) 10 W (mono)
Content Playback Yes
Quick Corner Yes
Corner Wall Yes
Curved Surface Yes
Edge Blending Yes
Screen Sharing Yes

Effective Scanning Frequency Range (Digital)

Pixel Clock 25.1 MHz – 594 MHz
Horizontal 26 kHz – 135 kHz
Vertical 23.98/24/25/29.97/30/50/59.94/60 Hz

Dimensions (W x D x H)

Excluding Feet 17.32" x 11.97" x 4.80"
Including Feet 17.32" x 13.39" x 5.43"
Weight 19.1 lb

Network and Remote Control

Features Power, source search selection, A/V Mute, number input, menu, esc, select, Freeze, ID, Customize, E-Zoom, mute, volume, playback control and pointer functions
Operating Angle Rear: Right/Left: -55 to +55 degrees; Upper/Lower: +75 to +15 degrees; Front: Right/Left: -30 to +30 degrees; Upper/Lower: 0 to +60 degrees
Operating Distance 26 ft (8 m)
Network Control PjLink, Crestron Integrated partner, Crestron Connected V2 with XIO Cloud, Extron IP link, Extron XTP, AMX, Control4

Eco Features

RoHS compliant
 End-of-life options available¹⁰
 Epson America, Inc. is a SmartWay® Transport Partner¹¹
 Design and Manufacturing centers utilize 100% renewable electricity
 Dynamic Contrast (ECO) Mode reduces power consumption by 36%

Limited Warranty and Service

Warranty Three-year limited in the U.S. and Canada
Service Whole unit exchange, usually Next-Business-Day
 Toll-free telephone support, Monday through Friday
Epson Connection™
 Pre-Sales Support (U.S. and Canada): 800-463-7766
 Website: www.epson.com

Epson Preferred Plus™ Extended Service Plan¹²

1-Year Next-Business-Day Whole Unit Exchange¹³ EPPEXPE1
 2-Year Next-Business-Day Whole Unit Exchange¹³ EPPEXPE2
 (available for up to a total of 5 years of continuous coverage)

What's Included

PowerLite L790U laser projector, power cable, projector remote control with batteries, Quick Reference card, cable cover

Ordering Information & Accessories

PowerLite L790U	V11HB28020
Replacement Air Filter (ELPAF65)	V13H134AF0
Custom Micro-Adjustable Projector Mount (ELPMBPRH)	V12H809001
Universal Projector Mount (ELPMBPJG)	V12H808001
PowerLite Pilot™ 3 (ELPCB03)	V12H927020
PixiePlus	ELPSP10
PixAlign Camera (ELPEC01)	V12HA46010
External Speaker (ELPSP02)	V12H467020
DC-07 Document Camera	V12H759020
DC-13 Document Camera	V12H757020
DC-21 Document Camera	V12H758020

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 and filter for up to 30,000 hours (Extended Mode) or 20,000 hours (Normal 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 The projector supports direct peer-to-peer wireless casting of local content from Miracast-enabled devices or via the Epson iProjection app. For best performance when using Epson iProjection, it is recommended that the projector and connecting devices be configured on a network, either through the Ethernet port on the projector or via a wireless connection. The Epson iProjection App does not support all files and formats. See epson.com/iprojection for details. | 5 NFC requires use of a device that includes NFC and may require additional software. | 6 Using separate camera for each projector. | 7 Requires Epson external camera for each projector and may require Epson Projector Professional Tool app. | 8 Requires an active Internet connection for alerts and Firmware download. | 9 Split Screen feature requires remote control. Consult your user manual for input combinations. | 10 For convenient and reasonable recycling options, visit epson.com/recycle | 11 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency. | 12 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 can be purchased at any time that you are covered under an Epson limited warranty or Epson Extended Service Plan. See individual service plan for details. | 13 Expedited shipping not available in all areas. Orders must be placed and processed by 1 p.m. Pacific Time, Monday through Friday, excluding holidays.

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