

# PowerLite® L690U

6,500-Lumen WUXGA 3LCD  
Laser Projector



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



**Bright, true-to-life images** — 3-chip 3LCD technology and 6,500 lumens of equal color and white brightness<sup>1</sup>

**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 a 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 filter<sup>2</sup> in Extended Mode

**Wireless networking and content sharing<sup>3</sup>** — Wi-Fi® 6/6E allows for fast, reliable wireless connectivity for screen casting<sup>3</sup>, along with direct connection to the cloud-based service, Epson Projector Management Connected and WPA3-Enterprise security

**Works with Apple® AirPlay® 2** — wirelessly stream videos, music, photos and presentations to your projector right from your iPhone®, iPad® or Mac®<sup>4</sup>

**Built-in NFC<sup>5</sup>** — 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 matching<sup>6</sup>, auto color calibration<sup>6</sup>, blending assist<sup>7</sup> for super wide displays and simple stacking<sup>7</sup> without an external PC

**Over-the-air updates<sup>8</sup>** — 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 Brightness¹** Color light output: 6,500 lumens  
**White Brightness¹** White light output: 6,500 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** Vertical: ±50%; Horizontal: ±20%  
**Keystone Correction** Vertical: ±30 degrees;  
 Horizontal: ±30 degrees  
**Light Source** Laser Diode  
**Light Source Life²** Normal: 20,000 hours; Quiet: 20,000 hours;  
 Extended: 30,000 hours

### Projection Lens

**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 (HDMI, USB, VGA 15-pin, BNC)  
**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** 32 dB (Normal Mode); max. 25 dB (ECO Mode)  
**Security** Security cable hole, Kensington® lock provision  
**A/V Mute** Yes  
**Speaker(s)** 10 W (mono)  
**Miracast®³** Yes  
**Epson iProjection™³** Yes (V4)  
**Apple AirPlay 2¹** Yes  
**Split Screen²** Yes (up to 2 Screens)

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 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. | ³ 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](http://epson.com/iprojection) for details. | ⁴ AirPlay requires an active Internet connection and Firmware version V200 or higher. To download the latest Firmware, please visit the support page for your specific product on [www.epson.com](http://www.epson.com) | 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](http://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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### 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)

**Content Playback** Yes  
**Quick Corner** Yes  
**Arc Correction** Yes  
**Edge Blending** Yes  
**Screen Sharing** Yes  
**Corner Wall** Yes  
**Curved Surface** Yes  
**Camera** Optional

### Effective Scanning Frequency Range (Digital)

**Pixel Clock** 25.1 MHz to 594 MHz  
**Horizontal** 26 kHz to 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** 18.1 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** PLink, 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](http://www.epson.com)

### Epson Preferred Plus™ Extended Service Plan

1-Year Next-Business-Day Whole Unit Exchange¹²,¹³ EPPEXPE1  
 2-Year Next-Business-Day Whole Unit Exchange¹²,¹³ EPPEXPE2  
 (available for up to a total of 5 years of continuous coverage)

### What's Included

PowerLite L690U projector, power cable, projector remote control with batteries, Quick Setup sheet, cable cover

### Ordering Information & Accessories

PowerLite L690U	V11HB29020
Replacement Air Filter (ELPAF65)	V13H134AF0
Universal Projector Mount (ELPMBPJG)	V12H808001
Custom Micro-Adjustable Projector Mount (ELPMBPRH)	V12H809001
PowerLite Pilot™ 3R (ELPCB03N)	V12HB11020
External Speaker (ELPSP02)	V12H467020
DC-07 Document Camera	V12H759020
DC-13 Document Camera	V12H757020
DC-21 Document Camera	V12H758020
PixAlign Camera (ELPEC01)	V12HA46010

### Contact:

