

PowerLite[®] L510U WUXGA 3LCD Laser Projector



Projectors

Business

Robust, compact WUXGA laser projector with 5,000 lumens plus lens shift.

Bright, vivid color — 5,000 lumens color/white brightness¹

Full HD, widescreen images up to 500" — WUXGA resolution (1920 x 1200);
Full HD 1080p support

Breakthrough laser technology — features a laser light source of up to 20,000
hours²; plus, Instant ON/OFF

Virtually maintenance-free operation — for the life of the optical engine³

Extraordinary sharpness and detail — up to 2,500,000:1 Dynamic contrast ratio

Flexible installation — up to ± 50 percent vertical and ± 20 percent horizontal
manual lens shift

Optional wireless networking with enterprise-level security — plus wireless
content sharing with Epson iProjection^{TM4}; wireless module sold separately

Robust connectivity — supports HDBaseTTM, 2x HDMI[®], VGA, RJ-45, stereo mini
and control management tools

Advanced installation features — 360-degree flexibility and geometric correction
tools such as horizontal and vertical keystone, arc correction, Quick Corner[®] and more

Constant Brightness Mode⁵ — fine-tune the brightness setting to help maximize
run time



Specifications

Projection System RGB Liquid Crystal Shutter Projection System
Projection Method Front, Front/Ceiling, Rear, Rear/Ceiling
Optical System Dichroic Mirror Separation and Prism Combine Method
Driving Method Poly-silicon TFT Active Matrix
LCD Size 0.67" (D10 with C²Fine™)
Type of Liquid Crystal VA
Pixel Number 2,304,000 dots (1920 x 1200) x 3
Pixel Arrangement Cross stripe
Color Brightness¹ Color Light Output: 5,000 lumens
White Brightness¹ White Light Output: 5,000 lumens
Aspect Ratio 16:10
Dynamic Contrast Ratio On Up to 2,500,000:1
Light Output Uniformity 86 percent
Color Reproduction Up to 1.07 billion colors
Color Processing 10 bit
Native Resolution 1920 x 1200 (WUXGA)
Screen Size (Projected Distance) Zoom: Wide: 50"-500" [1.44-14.76 m]; Zoom: Tele: 50"-500" [2.35-23.84 m]
Projected Distance 80" screen: 2.33-3.78 m
Lens Shift Type Manual
Lens Shift Vertical: ±50 percent; Horizontal: ±20 percent
Keystone Correction Vertical: ±30 degrees; Horizontal: ±30 degrees
Micro Lens Array Yes
Refresh Rate 192-240 Hz
Light Source Laser Diode
LD Input Power 205 W
Light Source Life² Normal: 20,000 hours; Quiet: 20,000 hours; Extended: 30,000 hours

Effective Scanning Frequency Range (Analog)

Pixel Clock 13.5-162 MHz (up to UXGA 60 Hz)
Horizontal 15-92 kHz
Vertical 50-85 Hz

Effective Scanning Frequency Range (Digital)

Pixel Clock 13.5-162 MHz (up to UXGA 60 Hz)
Horizontal 15-75 kHz
Vertical 24/30/50/60 Hz

Projection Lens

Type Optical Zoom (Manual)/Focus (Manual)
F-Number 1.5-1.7
Focal Length 20.0-31.8 mm
Zoom Ratio 1-1.6
Throw Ratio Range 1.35-2.20
Lens Cover Lens cap (without string)

Wireless Specifications (Optional)

Module sold separately.
Frequency Type (Modulations) 802.11g/n (2.4GHz)
Supported Security Type Quick Mode: OPEN, WPA2-PSK; Advanced Mode: OPEN WPA/WPA2-PSK, WPA/WPA2-EAP

Interfaces

HDBaseT: 1x
 Digital: HDMI 2x
 Analog: D-sub 15 pin
 Control I/O: RS-232C D-sub 9 pin 1x
 USB-I/O: Type A 1x; Type B 1x
 Wired LAN RJ45
 Wireless LAN Optional Accessory
 Audio in (stereo): 2x
 Audio out (stereo): 1x



Networked Control and Management

Message Broadcasting, Email notification, SNMP, Web remote, Web control, Secure HTTP, PjLink (Class2), AMX® Device Discovery, Crestron® Integrated Partner, Crestron Connected, Extron IP Link, Extron XTP, Control4 Simple Device Discovery Protocol

Other

Power Supply Voltage 100-240 V AC ±10%, 50/60 Hz
Power Consumption Normal: 353 W; Quiet: 254 W; Networked Standby 2.0 W; Energy Saving: 0.3 W
Fan Noise Normal: 37 dB; ECO: 25 dB
Projection Orientation 360° Free
Foot Adjuster Front/Rear: -2 to +10 degrees; Left/Right: -1.5 to +1.5 degrees
A/V Mute Yes
Contents Playback Yes
Image Mode Dynamic, Presentation, Cinema, sRGB, DICOM Simulation Mode⁵, Multi-projection
Quick Corner Yes
Arc Correction Yes
Split Screen⁷ Yes
User's Logo Yes
Sleep Mode Yes
Sleep Mode Timer Yes
Auto Power On Off/HDMI1/Computer
Quick Startup Yes (20 min, 60 min, 90 min, Off)
High Altitude Mode Yes
Auto Source Search Yes
QR Code Display Yes
Screen Mirroring No
Speaker(s) 10 W (mono)
Firmware Update Network via LAN cable; USB (A) via USB thumb drive; USB (B) via USB cable
Operating Altitude Over 4,921' (HAM)
Start-up Period 7 sec (Epson logo)
Quick Startup Less than 5 sec (Display)
Cool-down Period Instant Off⁶
Air Filter Maintenance Cycle 20,000 hours (Normal Mode/25 °C)
Theft Proof Padlock and security cable hole
Kensington Lock Yes

Weight and Dimensions (W x D x H)

Excluding Feet 17.32" x 11.97" x 4.73"
Including Feet 17.32" x 11.97" x 5.35"
Weight Approx. 18.7 lb/8.45 kg

Remote Control

Operating Distance 8 m
Operating Angle Front Right/Left: ±60 degrees; Upper/Lower: +30 to -20 degrees
Operating Angle Rear Right/Left: ±30 degrees; Upper/Lower: +50 to +10 degrees

Eco Features

RoHS compliant
 Recyclable product⁸
 Epson America, Inc. is a SmartWay® Transport Partner⁹

Support

Epson ConnectionSM
 Pre-sales support U.S. and Canada: 800-442-1977
 Internet website: www.epson.com
Service Programs 3-year standard projector limited warranty, PrivateLine® dedicated toll-free support (U.S. and Canada only)

What's in the Box

PowerLite L510U Projector, Power cord, Computer cable (VGA), Remote control and batteries, Quick setup poster, Cable cover

Ordering Information

PowerLite L510U Projector	V11H903020
Air Filter Set	ELPAF56
Wireless LAN Module	ELPAP10
Ceiling Mount	ELPMB22
Ceiling Mount (Low profile)	ELPMB30
Ceiling Mount (Universal)	ELPMBPJG
Suspension Adapter 450 mm	ELPPF13
Suspension Adapter 700 mm	ELPPF14
Document Camera	DC-07, DC-13, DC-21
External Speaker	ELPSP02
HDBaseT Transmitter	ELPHD01

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 20,000 hours is the estimated laser light source life when used in Normal Mode. Actual hours may vary depending on mode and usage environment. The projector has a standard limited warranty of 3 years. | ³ Life of the optical engine may vary depending on mode and usage environment. The projector has a standard limited warranty of 3 years. | ⁴ For wireless functionality, including via the Epson iProjection App, the projector must be configured on a network, either through the Ethernet port on the projector (check model specifications for availability) or via a wireless connection. Check your owner's manual to determine if a wireless LAN module must be purchased separately to enable a wireless connection. Not all Epson projectors are able to be networked. The Epson iProjection App does not support all files and formats. See www.epson.com for details. | ⁵ Color light output and white light output (lumens) in Constant Brightness Mode can be lower than the maximum output achievable when the Constant Brightness Mode is off. Actual run time may vary depending on environmental conditions, usage and settings. | ⁶ This projector does not meet the DICOM standard Part 14 and should not be used as a medical diagnostic device. | ⁷ Consult your user manual for input combinations. | ⁸ For convenient and reasonable recycling options, visit www.epson.com/recycle | ⁹ SmartWay is an innovative recycling partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.

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