PowerLite® 870E

Ultra Short Throw Display
with 4K Enhancement



Product shown with mount, sold separately.

Larger-than-life display up to 180"—for collaborative classrooms and meeting rooms.

Compatible with the Epson Setting Assistant App

Download on the App Store

GET IT ON Google Play

3LCD

LASER LIGHT SOURCE

EPSON
Epson Classroom Connect

Works with Apple AirPlay

Bright images for easy reading in well-lit rooms — keep viewers engaged thanks to a 3-chip 3LCD light engine that delivers 5,000 lumens of color and white brightness[1]

Impactful images — smooth, sharp images powered by leading-edge 4Ke technology[2]—for twice the resolution of Full HD

Flexible display sizes — versatile projection technology supports variable display sizes up to 180"—5x larger than a 75" flat panel; ultra wide 16:6 or 21:9 display options

Seamless casting and sharing — native built-in Apple® AirPlay®[3] and secure Miracast® with moderator control; wireless display from Chromebooks via Epson Classroom Connect[4]

Epson Classroom Connect[4] — free intuitive app supports wireless connectivity for up to 50 devices[5] and simultaneous display of up to 4 devices with moderator control

Built for easier installation — new wall mount and Epson Setting Assistant app[6] support one-person install; NFC[7] tag allows easy copying and transfer of projector settings for fleet installations

Versatile 360-degree placement — landscape or portrait mounting with edge blending and split screen[8] for wall-size displays

Easy networking and management — Wi-Fi® 6/6E with WPA3-Enterprise supports secure connectivity; Epson Projector Management Connected provides cloud fleet management

Lamp-free laser — up to 30,000-hour laser light source[9]; virtually maintenance-free with no lamps to replace

Outstanding warranty and service — world-class Epson service; usually next-business-day exchange[10] for added peace of mind

EPSON®

PowerLite® 870E

Specifications

Display System Epson 3-chip 3LCD technology
Display Method Ceiling/wall mount/table mount
Driving Method Epson Poly-Silicon TFT Active Matrix
Native Resolution 1080p with 4K Enhancement[2] (1920 x 1080 x 2)
Resolution on Screen 1080p x 2 (4.1 million pixels)
Pixel Number 2,073,600 pixels (1920 x 1080) x 3 chips
Color Brightness[1] Color Light Output: 5,000 lumens
White Brightness[1] White Light Output: 5,000 lumens
Aspect Ratio Supports 4:3, 16:10, 16:9, 16:6*, 21:9*
* With vertical image shift control within letterbox area.
Supported Display Size (16:9) Display only: 60" – 180" (74" – 150" with optional wall mount ELPMB89)
Supported Display Size (21:9)
Display only: 57" – 171"
70" – 142" with optional wall mount ELPMB89)
Keystone Correction (Manual)
Horizontal: ±3 degrees
Vertical: ±3 degrees
Contrast Ratio Up to 5,000,000:1
Color Reproduction Up to 1.07 billion colors
Illumination Technology Laser Diode
Light Source Life[9] 20,000 hours (Normal), 30,000 hours (Extended)

Wireless Specifications

Supported Security Mode
OPEN, WPA2/WPA3-PSK, WPA2/WPA3-EAP
Supported EAP Type: PEAP, EAP-TLS, Simple AP (Wi-Fi Direct®): WPA2 PSK (AES)
Frequency Type Infrastructure:
802.11b/g/n/ax (2.4 GHz) (DSSS/CCK, OFDM, OFDMA)
802.11a/n/ac/ax (5 GHz) (OFDM, OFDMA)
802.11ax (6 GHz) (OFDM, OFDMA)
Wi-Fi Direct: OFDM, OFDMA
Maximum speed and range are achievable when used with the same Enhanced Mode technology. Actual data rates, features and performance may vary depending on your computer system, network hardware & configuration, and other factors.

Projection Lens

Type Manual focus
F-Number 1.60
Focal Length 3.7 mm
Throw Ratio Range (16:9) 0.25 – 0.35
Zoom Ratio Digital zoom 1.0 – 1.35x
Vertical Offset 5.2:1

Interfaces

HDMI: 3x (with HDCP 2.3 protection)
HDMI Out: 1x (with HDCP 2.3 protection)
HDBaseT®: 1x
Audio Out: 1x Mini Stereo
Microphone In: 1x
USB Connector: 1x service
USB Connector: 2x Type-A (USB memory/ document camera), Port 1: 5 V/2 A Power Supply
RJ45 LAN: 1x
Serial: 1x RS-232c
Integrated Wireless LAN: 802.11a/b/g/n/ac/ax



Other Features

Speaker 16-watt mono
Auto Power On Signal Detection on HDMI®/Plug-in Detection (HDMI)
Sleep Mode Yes (with timer)
Fan Noise
Quiet Mode: 25 dB, Normal Mode: 32 dB
Security Kensington® lock provision, security anchor bar, password-protect function
Operating Temperature 32 ˚F – 104 ˚F (0 ˚C – 40 ˚C)
Power Supply Voltage 100 V – 240 V ± 10%, 50/60 Hz
Power Consumption
Extended Mode: 247 W
Normal Mode: 320 W
Standby (Communication On): 2.0 W
Standby (Communication Off): 0.5 W
Apple Airplay[3] Yes
Epson Classroom Connect[4] Yes
Epson iProjection™[4] Yes (V4)
Miracast[4] Yes
Split Screen[8] Yes (up to 2 screens)

Dimensions (W x D x H)

Including Feet 14.8" x 15.6" x 6.8"
Weight 15.5 lb

Remote Control

Features Power, Source Search, HDMI/HDBaseT, Wireless, USB, Split Screen[8], Freeze, Customize, Menu, Default, ESC, Home, Volume, AV Mute, Mute, eZoom, Play/Pause, Reverse, Forward, Screen Shift
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 19.7 ft (6 m)

Eco Features

Energy-efficient 3LCD light engine
RoHS compliant
End-of-life options available[11]
Epson America, Inc. is a SmartWay® Transport Partner[12]

Limited Warranty and Service

Warranty 3-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: epson.com

Epson Preferred Plus™ Extended Service Plan[13]

1-Year Next-Business-Day Whole Unit Exchange[10]	EPPEXPF1
2-Year Next-Business-Day Whole Unit Exchange[10]	EPPEXPF2

(available for up to a total of 5 years of continuous coverage)

What's Included

PowerLite 870E, Remote control and 2 AA batteries, projector feet, Quick Start Guide, product registration sheet, warranty statement

Ordering Information

PowerLite 870E	V11HC04020
Air Filter	V13H134A66
PixiePlus (ELPSP10)	
DC-07 Document Camera	V12H759020
DC-13 Document Camera	V12H757020
DC-21 Document Camera	V12H758020
External Speakers (ELPSP02)	V12H467020
ELPCB04HD Connection and Control Pad	V12HC78020
Ultra Short Throw Wall Mount (ELPMB89)	V12HC54010

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** 4K Enhancement Technology shifts each pixel to surpass Full HD resolution on screen. | **3** AirPlay requires an active network connection. Recommended wireless network connection of 25 Mbps or faster. Some apps require paid subscriptions. | **4** The projector supports direct peer-to-peer wireless casting of local content from Miracast-enabled devices or via the Epson iProjection app. Epson Classroom Connect requires that the projector and connecting devices be configured on a network, either through the Ethernet port on the projector or via a wireless connection. Epson Classroom Connect functionality may vary by platform. Internet connection required for downloads. Data usage fees may apply. | **5** 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 epson.com for details. | **6** Wi-Fi equipped projector and compatible device required. Internet connection required for download. | **7** NFC requires use of a device that includes NFC and may require additional software. | **8** Split Screen feature requires remote control. Consult your user manual for input combinations. | **9** No required maintenance for the light source 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/m^3 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. | **10** Expedited shipping not available in all areas. Orders must be placed and processed by 1 p.m. Pacific Time, Monday through Friday, excluding holidays, for Next-Business-Day delivery. See limited warranty or service plan for details. | **11** For convenient and reasonable recycling options, visit 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 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.

Learn more about how our products can empower your institution. Visit us at **epson.com/foreducation**

Contact:

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

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

epson.com
epson.ca

Specifications and terms are subject to change without notice. EPSON, PowerLite and the 3LCD logo are registered trademarks and Epson iProjection is a trademark of Seiko Epson Corporation. Epson Connection and Epson Preferred Plus are trademarks of Epson America, Inc. AirPlay and Apple are trademarks of Apple Inc., registered in the U.S. and other countries. Chromebook is a registered trademark of Google LLC. SmartWay is a registered trademark of the U.S. Environmental Protection Agency. Miracast®, Wi-Fi® and Wi-Fi Direct® are registered trademarks of Wi-Fi Alliance®. 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 2026 Epson America, Inc. CPD-71771 5/26