PowerLite® Pro G5650W
MULTIMEDIA PROJECTOR

Brilliant widescreen performance meets precision control.

The PowerLite Pro G5650W offers the ultimate projection solution for any auditorium or boardroom, even in ambient light. Now included with a standard lens, it provides amazing image quality with 4500 lumens color and white light output\(^1\), WXGA (1280 x 800) resolution and C\(^2\)Fine™ technology. Engineered to integrate with both IP and RS-232, the G5650W works with industry-leading devices, allows easy remote monitoring and control using Epson’s Easy Management® software and is also compatible with Crestron’s RoomView. The G5650W features DICOM simulation mode for training and educational purposes\(^2\). It even includes a closed captioning decoder, so there are no added costs to accommodate those with hearing impairments.

**High brightness and widescreen performance** — crystal-clear images with WXGA resolution, C\(^2\)Fine technology, 4500 lumens color and white light output\(^1\), and up to 2000:1 contrast ratio

**Complete networkability** — wired and wireless (optional) Crestron RoomView compatible network connection, content over IP and message broadcasting

**Enhanced connectivity** — HDMI, VGA and multiple video and audio inputs

**Multi-screen options** — project two side-by-side images from different inputs or up to four images from network users

**Additional lens options** — upgrade to other interchangeable bayonet lenses, including short-throw, long-throw and rear-projection; with horizontal and vertical lens shift for flexible setup configurations
The best-selling projectors in the world.

Epson understands business and education and has a solution no matter what your situation. Built with image quality and reliability in mind, EPSON® projectors enhance communication and inspire collaboration, while offering a low total cost of ownership. From long-throw projectors to ultra-short-throw and all-in-one solutions, Epson has the model made for you.

Brilliant image quality

3LCD technology — for quality and color that’s beyond amazing

- 3 chips for full-time, vibrant color
- 25% less electricity required per lumen of brightness when compared to 1-chip DLP projectors
- Over 20 years of road-tested reliability built into every projector

Amazing color light output

Rich color and detail are critical for presentations — that’s why it’s important to understand that color light output is an essential ingredient in achieving optimum performance. The PowerLite Pro G5650W delivers 4500 lumens of color light output and 4500 lumens of white light output for bright, vibrant, colorful images.

C²Fine technology delivers a higher contrast ratio

C²Fine offers smooth, uniform images with exceptional contrast for better image quality. Based on this new phase-compensation technology, light leakage is eliminated, and, when combined with auto iris, it allows for contrast ratios of up to 2000:1.

Advanced sharpness

Another feature Epson has transferred over from its industry-leading home cinema projectors — advanced sharpness for video. Depending on the content, users can adjust any of the following attributes of the image depending on the content: thin line enhancement, thick line enhancement, vertical line enhancement or horizontal line enhancement.

Enhanced connectivity

The PowerLite Pro G5650W is equipped with:

- Full digital connectivity with an HDMI port
- 5 BNC, 2 video/audio, 2 x VGA and RS-232 for additional flexibility

Better Products for a Better Future™

For more information on Epson’s environmental programs, go to eco.epson.com
Full-featured performance

**DICOM simulation mode**

DICOM (Digital Imaging and Communication in Medicine) is a standard for handling, storing, printing and transmitting medical imaging information. The projector’s DICOM Simulation Mode enables users to reproduce images with an advanced grayscale level that simulates DICOM Part 14. This mode is ideal for viewing grayscale medical images, such as X-rays, for training and educational purposes.

**Improved video with 3:2 and 2:2 pull-down options**

3:2 pull-down creates 60 frames per second and 2:2 pull-down creates 48 frames per second from 24 frames.

- 3:2 pull-down: The image is smoother.
- 2:2 pull-down: One frame length is the same as film. It is ideal for movies.

**Test patterns**

The PowerLite Pro G5650W also includes four test patterns with precise setup features, including detecting distortion, checking linearity, color reproduction and bleeding, and DICOM simulation mode.

**6-axis color adjustment**

For special projection material such as high-quality photographs or artwork, users can adjust the hue, saturation and brightness for six colors: RGBCMY (Red, Green, Blue, Cyan, Magenta, Yellow).
Advanced control, monitoring and communication

**Epson’s EasyMP® monitor tool**
If you are searching for a solution that gives you control over your time, EPSON network projectors with Easy Management capabilities can help. EPSON networked projectors provide built-in remote access, with no licensing fees, to EPSON monitor software. These features give you added control, with the ability to troubleshoot and monitor all EPSON networkable projectors from any computer over a wired or wireless Ethernet network.

**Full networkability**
EPSON networked projectors can also be accessed from your browser via an internal web page. Whether you assign a static IP address or enable DHCP, the projector becomes accessible once it’s integrated in your network. The internal web page lets you control items such as network configuration, projector settings and e-mail alerts.

**Additional features to assist administrators/Help Desk**
- Remote access and control through the network
- Remote monitoring of up to 1024 EPSON networked projectors
- Simultaneously view status, including input sources, power on/off, lamp life hours and more
- Preventative maintenance features, including temperature levels and error alerts
- Schedule filter and lamp time settings
- E-mail notification (SMTP) to send alerts to your handheld device
- Enterprise SNMP plug-in available

**Message broadcasting**
This innovative feature enables you to broadcast customized images/alerts over the network for announcements or instructions. Messages can be sent to up to 1024 projectors simultaneously and will overwrite the current screen content if the projector is being used, unless this function is disabled by the presenter. If the projector is off, message broadcasting will turn the projector on and then display the message.

**Network projection — content over IP**
You can use EasyMP Network Projection to project your computer content through the projector, via a network, for effective meetings, presentations and digital signage applications. You can use either wired or high-security wireless LAN connections and project the same or up to four different images on up to four projectors, or display a panoramic image.
Powerful content management

**Split-screen**
Split-screen allows you to display content from two inputs simultaneously, side by side, on a single screen with the following features:
- Three layout options, as shown below
- Video and presentation materials displayed simultaneously
- The ability to run video on both screens

**Multi-PC projection**
EPSON Multi-PC Collaboration utility allows you to display four individual PC screens simultaneously over the network with another 12 users connected to the same projector on Standby mode. You can drag and drop participants into or out of one of the four quadrants. This feature is a great tool for meetings or classroom projects where multiple users want to present and compare their screens. You can also connect up to four remote projectors at the same time and show the same multi-screen image — another great tool for remote meeting setups.
Easy and flexible installations

**Centered lens design**
The PowerLite Pro G5650W makes installation easy to plan with lens-to-screen alignment. Installers can position the ceiling mount, screen and projector independently of one another, knowing that the center of the screen will align with the lens at the center of the projector.

**Optional lenses**
A 1.8x standard lens is included for remarkable placement flexibility. For even greater flexibility, Epson offers a total of five lenses with varying ranges, including a rear-throw lens. This allows users to choose the motorized lens most suited for their environment. A quick-release lever allows for a quick, easy lens exchange.

**Off-axis, flexible installation**
The PowerLite Pro G5650W also features a ±30-degree tilt operation for off-axis positioning flexibility. As a result, it can be used for a wide range of applications, such as projecting on angled surfaces. EPSON technology keeps the projector running without compromising performance or causing overheating.

**EPSON lens shift technology**
In addition to added reliability and amazing color performance, Epson’s industry-leading 3LCD technology enables this projector to achieve a wide range of lens shift capabilities, allowing you to install around obstacles. This lens shift technology enables an incredible range of ±50 percent on the vertical axis and ±10 percent on the horizontal axis.

**Quick Corner®**
This innovative feature allows you to move any of the four corners of an image independently at setup, using the remote control, for a perfectly rectangular picture.

**Keystone correction**
Adjusts up to ±40 degrees vertically and ±20 degrees horizontally to easily achieve a perfect square image.
Low cost of ownership

Long-life lamp that’s easy to replace
This high-efficiency lamp lasts up to 2000 hours in Normal Mode and up to 3000 hours in ECO Mode. It can be replaced quickly and easily, without having to uninstall the projector from the ceiling.

Long-life electrostatic air filter
This innovative filter was designed to protect the optical engine, lamp and electronics from small dust particles that can enter any projector. It has a recommended 3000-hour filter cleaning schedule and can capture particles as small as three microns, due in part to its pleated, expanded design.

Built-in 7 W speaker
• For multimedia applications — convenient built-in speaker

Built-in closed captioning
• Accommodates those with hearing impairments
• Delivers important content when audio broadcasting is not preferred
• Helps save money — no need to pay for an additional decoder and its installation
• Effective and easy to use — easily enabled or disabled through the projector remote or menu

>>> Phase one projected to be early.
**PowerLite® Pro G5650W**

Multimedia Projector

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### Specifications

**Projection System**
High-aperture EPSON 3LCD, 3-chip technology

**Projection Method**
Front/rear/ceiling mount

**Driving Method**
EPSON Poly-silicon TFT Active Matrix

**Pixel Number**
1,024,000 pixels x 3 LCDs (1280 x 800)

**Native Resolution**
1280 x 800 (WXGA)

**Aspect Ratio**
4:3, 16:9, 16:10

**Pixel Clock**
3000 hours (ECo Mode)

**Display Performance**
NTSC: 56i line
PAL: 50i line (depends on observation of the multi-burst pattern)

**Input Signal**
NTSC/NTSC4.43/PAL/M-PAL/N-PAL/PAL60/SECAM/480i/576i/480p/576p/720p/1080p/1080i

**Input Video Signal**
Pixel works: video chip
3.5 Y/C separation, noise reduction

**Interfaces**
HDMI x 1
Computer: D-sub 15 pin x 2
Video-1: 5-BNC x 1
Video-2: RCA x 1
Audio-in: Mini stereo x 3
Audio-in: RCA (L&R) & 1 network
RJ-45 x 1, 100 Mbps
USB Type-A x 1
Serial: RS-232c

**Projector Lens**
Type
Manual focus/zoom

**F-number**
1.65 – 2.55

**Focal Length**
21.28 mm – 37.94 mm

**Zoom Ratio**
Optical zoom 1.0 – 1.8

**Throw Ratio Range**
1.30 – 2.36

**Lens Shift**
Vertical: ±50 degrees
Horizontal: ±10 degrees

**Keystone Correction**
Vertical: ±40 degrees
Horizontal: ±20 degrees

**Lamp Type**
330 W UHE

**Lamp Life**
2000 hours

**Brightness Uniformity (typical)**
89%

**Color Reproduction**
16.7 million colors

**Color Light Output**
4500 lumens

**White Light Output**
4500 lumens (ISO 21118 standard)

**Contrast Ratio (High Brightness, Dynamic Mode)**
2100:1

**Brightness Uniformity (typical)**
89%

**Color Reproduction**
16.7 million colors

**Dimensions (projected distance)**
30” – 300”

**Lens Shift**
Vertical: ±50 degrees
Horizontal: ±10 degrees

**Keystone Correction**
Vertical: ±40 degrees
Horizontal: ±20 degrees

**Focusing Type**
Manual Focus/Zoom

**Zoom Ratio**
21.28 mm – 37.94 mm

**F-number**
1.65 – 2.55

**Focal Length**
21.28 mm – 37.94 mm

**Throw Ratio Range**
1.30 – 2.36

**Lens Shift**
Vertical: ±50 degrees
Horizontal: ±10 degrees

**Dimensions (projected distance)**
30” – 300”

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### Video I/O

**Display Performance**
- NTSC: 56i line
- PAL: 50i line (depends on observation of the multi-burst pattern)

**Input Signal**
- NTSC/NTSC4.43/PAL/M-PAL/N-PAL/PAL60/SECAM/480i/576i/480p/576p/720p/1080p/1080i

**Input Video Signal**
- Pixel works: video chip
- 3.5 Y/C separation, noise reduction

**Interfaces**
- HDMI x 1
- Computer: D-sub 15 pin x 2
- Video-1: 5-BNC x 1
- Video-2: RCA x 1
- Audio-in: Mini stereo x 3
- Audio-in: RCA (L&R) & 1 network
- RJ-45 x 1, 100 Mbps
- USB Type-A x 1
- Serial: RS-232c

**Projector Lens**
- Type: Manual focus/zoom
- F-number: 1.65 – 2.55
- Focal Length: 21.28 mm – 37.94 mm
- Zoom Ratio: Optical zoom 1.0 – 1.8
- Throw Ratio Range: 1.30 – 2.36

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### Other Features

**Operating Temperature**
32° to 104°F (0° to 40°C)

**Power Supply Voltage**
100 – 240 V ±10%, 50/60 Hz AC

**Power Consumption**
464 W (Normal Mode)
383 W (ECo Mode)

**Fan Noise**
38 dB (ECo Mode)
32 dB (ECo Mode)

**Power Efficiency**
383 W (ECo Mode)
464 W (normal Mode)

**Operating Temperature**
100 – 240 V ±10%, 50/60 Hz AC

**Fan Noise**
383 W (ECo Mode)
464 W (normal Mode)

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### Projector Performance

**Dimensions (W x D x H)**
Including Feet (standard lens) 18.50” x 12.26” x 5.96”
Excluding Feet, Lens 18.50” x 12.26” x 5.31”

**Weight**
15 lb

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### Remote Control

**Features**
- Power, source search selection, computer, video, A/V mute, freeze, user ID, auto, aspect, color mode, menu, enter, esc and pointer functions

**Operating Angle**
Right/left:
- Front: ± 60 degrees
- Rear: ± 30 degrees

**Remote Distance**
49 ft

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### Support

**What’s in the Box**
- CD, Quick setup sheet, privateLine support card,
- computer cable (VGA), projector remote control
- Three-year limited warranty, Epson Road service
- Internet website www.epson.com
- Pre-sales support (U.S. and Canada)
- Marketing website www.epson.ca
- 90-day limited lamp warranty, privateLine® dedicated toll-free support
- (1-800-726-3606 in U.S. only)
- Genuine EPSON lamp
- V13H08E003

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### Packaging Specifications

**PowerLite Pro G5650W**
Dimensions 22.4” x 21.6” x 11.1” (W x D x H)
Weight 22.1 lb

**Genuine EPSON Lamp**
Dimensions 6.3” x 5.6” x 5.6” (W x D x H)
Weight 0.8 lb

**Master Carton**
Dimensions 28.4” x 13.1” x 6.8” (W x D x H)
Weight 9 lb

**Units Per Master Carton**
10

**Weight**
3.09 lb

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**Accessory Part Numbers**

**Genuine EPSON lamp**
V13H010L63

**Replacement Air Filter**
V13H134A17

**Wireless LAN 802.11 module**
V12H306P11

**Standard lens**
V12H004505

**Long-throw zoom**
V12H00460L

**Middle-throw lens**
V12H004304

**Middle-throw 2 zoom**
V12H004504

**Quick connect wireless USB key**
V12H005M08

**Projection weight fixed**
V12H004R03

**Replacement remote control**
148572

**Advanced projector ceiling mount**
-with precision gear
ELPMBPRG

**Adjustable suspended ceiling kit**
ELPMBP01

**False ceiling plate kit**
ELPMBD01

**Adjutable extension column**
ELPMBP03

**Kensington security lock**
ELPSL01

**60-inch portable screen**
ELPS06

**60-inch portable pop-up screen**
ELPS07

**4:3 aspect ratio**
ELPS08

**8:1 aspect ratio**
ELPS09

**Duet™ portable projector screen**
ELPS0A

**Component to VGA video cable**
ELPS0B

**S-video cable**
ELPS0C

**Distribution amplifier**
ELPS0D

**Remote control (ELPS16)**
V12H067716

**Image presentation camera (ELPDCC5)**
V12H162020

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1. Color and white light output will vary depending on mode selected. White light output measured using ISO 21118 standard.
2. This projector does not meet the DICOM standard Part 14 and should not be used as a medical diagnostic device.
3. Data source: ProjectorCentral.com Jan 2011. Average of 1038 shipping models for which manufacturers provided lumens and total power data, all resolutions and brightness levels.
4. See our website for convenient and reasonable recycling options at www.epson.com/recycle
5. SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.
6. Lamp life will vary depending upon mode selected, environmental conditions and usage. Lamp brightness decreases over time.
7. Recommendation based on normal room conditions. Cleaning requirements may vary depending on use, environment and other conditions. Cleaning intervals may be adjusted to accommodate the environment in which the projector is used.

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