

## PowerLite® Pro G5650WNL

MULTIMEDIA PROJECTOR



# Brilliant widescreen performance meets precision control.

The PowerLite Pro G5650WNL offers the ultimate projection solution for any auditorium or boardroom, even in ambient light. It ensures amazing image quality with 4500 lumens color and white light output¹, WXGA (1280 x 800) resolution and C²Fine™ technology. Engineered to integrate with both IP and RS-232, the G5650WNL 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 G5650WNL 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<sup>2</sup>Fine technology, 4500 lumens color and white light output<sup>1</sup>, and up to 2000:1 contrast ratio

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

 $\textbf{Enhanced connectivity} \ -- \ \text{HDMI, VGA and multiple video and audio inputs}$ 

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

**Five lens options** — interchangeable bayonet lens options, including short-throw, long-throw and rear-projection; plus horizontal and vertical lens shift for flexible setup

## PowerLite® Pro G5650WNL

MULTIMEDIA PROJECTOR

## 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.

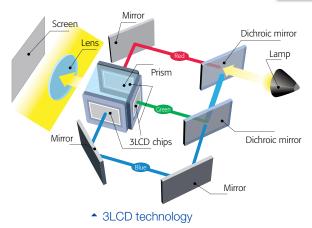


## **Brilliant image quality**

## 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<sup>3</sup>
- Over 20 years of road-tested reliability built into every projector





#### **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.

#### **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 G5650WNL delivers 4500 lumens of color light output and 4500 lumens of white light output<sup>1</sup> for bright, vibrant, colorful images.

## C<sup>2</sup>Fine technology delivers a higher contrast ratio

C<sup>2</sup>Fine 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.





◆ With C<sup>2</sup>Fine

#### **Enhanced connectivity**

The PowerLite Pro G5650WNL is equipped with the following:

- 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

### Eco Features

- Energy-efficient 3LCD light engine
- Designed to be recycled<sup>4</sup>
- Epson America, Inc. is a SmartWay<sup>SM</sup> Transport Partner<sup>5</sup>



### **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.<sup>2</sup>



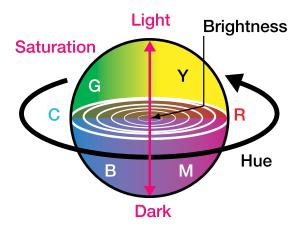


▲ Normal Mode

▲ 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).



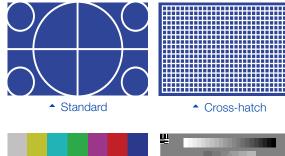
## Improved video with 3:2 and 2:2 pull-down options

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

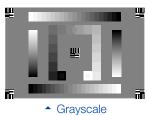
- 3:2 pull-down: The image is smoother.
- 2:2 pull-down: One frame length is the same as film. It is ideal for movies.

#### **Test patterns**

The PowerLite Pro G5650WNL also features four test patterns for precise setup, including detecting distortion; checking linearity, color reproduction and bleeding; and DICOM simulation mode.







### 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.

#### 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



#### **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.

#### **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.



#### **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.



## **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



Layout Option 1: 50-50% split-screen



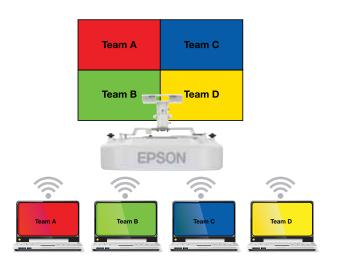
Layout Option 2: Main image on the left

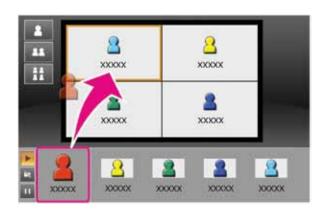


Layout Option 3: Main image on the right

#### **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 multiscreen image — another great tool for remote meeting setups.





## **Easy and flexible installations**

#### Centered lens design

The PowerLite Pro G5650WNL 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.

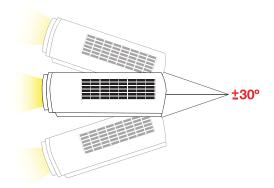


#### **Five lens options**

Remarkable placement flexibility with a 1.8x standard lens (not included). 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 G5650WNL 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.



◆ Off-axis, flexible installation



#### **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  $\pm 50$  percent on the vertical axis and  $\pm 10$  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.<sup>6</sup> 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<sup>7</sup> 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







## PowerLite® Pro G5650WNL

Multimedia Projector

**Product Name Product Code** PowerLite Pro G5650WNL V11H347920 0 10343 87871 6 Genuine Epson Lamp V13H010L63 0 10343 88123 5 Replacement Air Filter V13H134A17 0 10343 86897 7

#### **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 pixel x 3 LCDs (1280 x 800)

#### **Native Resolution**

1280 x 800 (WXGA)

#### Resize

640 x 480, 800 x 600, 1280 x 1024,

#### 1400 x 1050, 1920 x 1080, 1920 x 1200

**Aspect Ratio** 

#### Supports 4:3, 16:9, 16:10

**Pixel Arrangement** Cross stripe

#### Color Light Output<sup>1</sup>

4500 lumens

#### White Light Output<sup>1</sup>

4500 lumens (ISO 21118 standard)

#### Contrast Ratio (High Brightness, Dynamic Mode)

2000:1

#### **Brightness Uniformity (typical)**

#### **Color Reproduction**

16.7 million colors

#### Size (projected distance)

#### 30" - 300" **Lens Shift**

Vertical: ±50 degrees

#### Horizontal: ±10 degrees **Keystone Correction**

Vertical: ±40 degrees

#### Horizontal: ±20 degrees

**Lamp Type** 

#### 330 W UHF Lamp Life

2000 hours (Normal Mode) 3000 hours (ECO Mode)

#### **Effective Scanning Frequency Range**

#### **Pixel Clock**

13.5 MHz - 162 MHz (up to UXGA 60 Hz)

#### Horizontal 15 kHz - 92 kHz

Vertical 50 Hz - 85 Hz

#### Video I/O

#### Display Performance

NTSC: 560 line

PAL: 560 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/

1080i/1080p

Pixel works: video chip

3D Y/C separation, noise reduction

motion compensated Interlace-Progressive conversion

(2-2, 3-2 film detection)

#### Interfaces

#### HDMI x 1

Computer: D-sub 15 pin x 2

Video-1: 5-BNC x 1

Video-2: RCA x 1

Composite video: BNC x 1

S-Video x 1

Audio-in: Mini stereo x 3

Audio-in: RCA (L&R) x 1

Network: RJ-45 x 1, 100 Mbps

Serial: RS-2320

Hardwire remote jack x 1 Monitor-Out: D-sub 15 pin x 1

#### **Projection Lens**

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

#### **Other Features**

#### **Operating Temperature**

32 ° to 104 °F (0 ° to 40 °C)

#### **Power Supply Voltage**

100 - 240 V ±10%, 50/60 Hz AC

Audio 3 Audio 3 Audio 1 (BNC) (Computer 1)

#### **Power Consumption**

464 W (Normal Mode)

383 W (ECO Mode)

11 W Standby (Communication on) 0.47 W Standby (Communication off)

#### **Fan Noise**

38 dB (Normal Mode)

32 dB (ECO Mode)

#### Security

Security cable hole, lens lock, Kensington® lock provision

#### Dimensions (W x D x H)

#### **Including Feet (with standard lens)**

**Excluding Feet, Lens** 

18.5" x 12.26" x 5.31 Weight 15 lb

#### **Remote Control**

#### Features

Power, source search selection, computer, video, AV mute, freeze, user ID, auto, aspect, color mode, num, page up and down, E-zoom, volume. help. menu, enter, esc and pointer functions

#### **Operating Angle**

Right/left:

Front: ± 60 degrees

Rear: ± 30 degrees

Upper/lower:

Front: ± 20 degrees

Rear: +10 to +45 degrees

Operating Distance

#### Support

#### The Epson Connection<sup>SM</sup>

Pre-sales support U.S. and Canada

800-463-7766

Internet website www enson com

#### Service Programs

Three-year limited warranty, Epson Road Service program, PrivateLine® dedicated toll-free support (U.S. and Canada only) and 90-day limited lamp warranty

What's in the Box

PowerLite Pro G5650WNL projector, power cable, computer cable (VGA), projector remote control with batteries, user manual CD, EasyMP software CD, Quick Setup Sheet, PrivateLine support card, registration card, password protection sticker and

#### **Accessory Part Numbers**

(BNC

Kens

AC Inlet

RCA-Audio/Video

S-Video

Audio 2

Computer 2

BNC

Monitor Out

RS.

Computer 1

Audio Out

**HDMI** 

Remote

Genuine Enson Jamo V13H010L63 Replacement air filter V13H134A17 V12H306P11 Wireless LAN 802 11 module V12H004S05 Standard lens Long-throw zoom V12H004L06 Middle-throw 1 zoom V12H004M04 Middle-throw 2 zoom V12H004M05 Quick connect wireless USB key V12H005M08 Rear projection wide-fixed V12H004R03 Replacement remote control 1485872 Advanced projector ceiling mount ELPMBPRG with precision gear Adjustable suspended FI PMRP01 ceiling channel kit False ceiling plate kit ELPMBP02 Structural round ceiling plate FI PMRP03 Adjustable extension column (pipe) 8" - 11"FI PMRC01 Kensington security lock ELPSL01 50-inch portable screen (4:3 aspect ratio) ELPSC06 60-inch portable pop-up screen (4:3 aspect ratio) ELPSC07 80-inch portable pop-up screen (4:3 aspect ratio) ELPSC08 Duet™ portable projector screen (4:3/16:9 combination) ELPSC80 Component to VGA video cable ELPKC19 S-video cable ELPSV01 Distribution amplifier ELPDA01 Remote control (ELPST16) V12H007T16 Image presentation

#### **Packaging Specifications**

V12H162020

#### PowerLite Pro G5650WNL

Dimensions 22.4" x 21.6" x 11.1" (W x D x H)

Weight 22.1 lb

camera (ELPDC05)

**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 **Replacement Air Filter** 

Dimensions 11.3" x 3.7" x 1.9" (W x D x H)

Weight 0.21 lb Master Carton

Dimensions 19.2" x 11.8" x 4.8" (W x D x H) Weight 3.09 lb

Units Per Master Carton 10

- 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.

4 See our website for convenient and reasonable recycling options at www.epson.com/recycle

- 3 Data source: ProjectorCentral.com Jan 2011. Average of 1038 shipping models for which the manufacturers provided lumens and total power data, all resolutions and brightness levels
- 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 Recommended 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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