EPSON®
EXCEED YOUR VISION

PowerLite® Pro Z8450WUNL
MULTIMEDIA PROJECTOR

▲ Product pictured with lens

Powerful performance beyond Hi-Def.

A powerful performer that's easy to install, manage and maintain, the PowerLite Pro Z8450WUNL multimedia projector offers 7000 lumens of color/white light output[1] for captivating presentations in virtually any venue, even those with ambient light. Featuring WUXGA resolution, innovative 3LCD technology and a contrast ratio up to 5000:1, the Z8450WUNL delivers brilliant widescreen images in lecture halls, conference centers and entertainment venues. Setup and installation are easy with 360-degree projection, edge blending and more. Offering diverse connectivity and a full suite of monitor and control features, this high-definition, high brightness projector ensures easy integration with complex devices, plus a low overall cost of ownership. Choose from a variety of optional lenses to meet most any need.

Bright, widescreen performance — 7000 lumens color/white light output[1]; WUXGA resolution

Advanced features — edge blending, split screen, DICOM simulation mode[2] and FineFrame interpolation

Diverse connectivity for easy integration — includes HDMI, HD-SDI and LAN connectivity

The best-selling projectors
#1
EPSON Projectors
in the world

The best-selling projectors in the world

Epson offers a wide range of high-quality projectors to meet most any need. Built with image quality and reliability in mind, EPSON® projectors enhance communication and inspire collaboration, while offering a low total cost of ownership. From ultraportable projectors designed for educational settings to boardroom-ready installable business projectors, Epson has the model made for you.

The best-selling projectors
#1
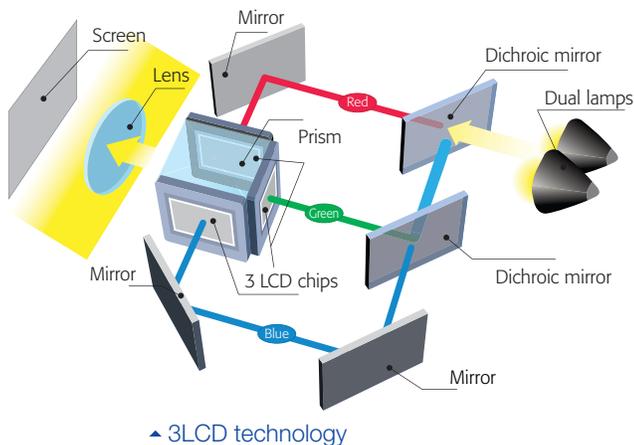**EPSON Projectors**
in the world

Image Quality

3LCD technology — for quality and color that's beyond amazing
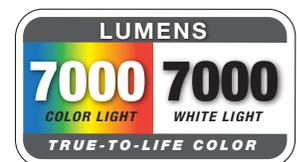#### Innovative technology with proven reliability

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

CERTIFIED 3 CHIP TECHNOLOGY

3LCD

Screen · Mirror · Lens · Dichroic mirror · Red · Dual lamps · Prism · Green · Mirror · 3 LCD chips · Dichroic mirror · Blue · Mirror

▲ 3LCD technology

Amazing color and white light output

The PowerLite Pro Z8450WUNL delivers 7000 lumens of color light output and 7000 lumens of white light output[1] for true-to-life, vibrant, colorful images, even in ambient light. For today's color-rich, multimedia content, users want a projector that delivers both optimum white and color imagery. That's why the industry has developed a new metric called Color Light Output.

LUMENS
7000 COLOR LIGHT · **7000** WHITE LIGHT
TRUE-TO-LIFE COLOR

Always look for Color Light Output when choosing a projector

- For optimum image quality and performance, the projector you choose should offer equal levels of color and white light output
- When the two measurements are not identical, images do not look balanced
- Whites may be brighter, making the colored areas look dull and flat
- The combination of color richness (color light output) and brightness (white light output) is as critical as the combination of bass and treble would be when purchasing audio equipment

High color light output   Low color light output

Better Products for a Better Future™

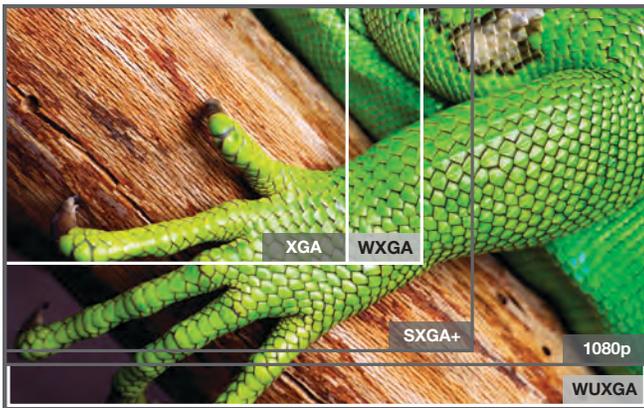For more information on Epson's environmental programs, go to eco.epson.com

Eco Features

- Energy-efficient 3LCD, 3-chip technology
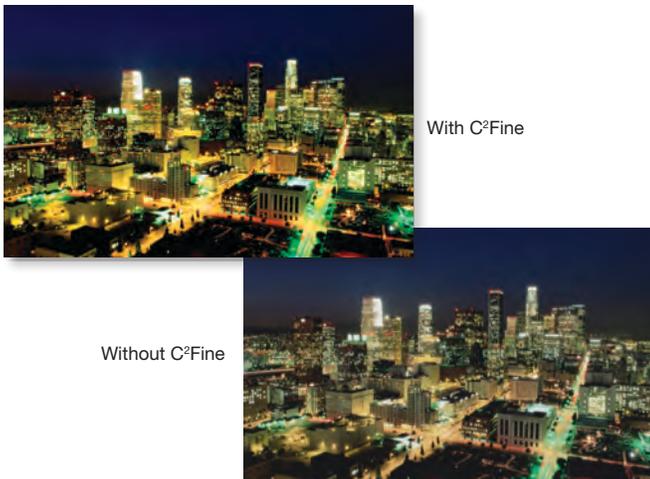- Epson America, Inc. is a SmartWay℠ Transport Partner[4]

Beyond Hi-Def

Featuring WUXGA resolution (1920 x 1200), the PowerLite Pro Z8450WUNL delivers high quality images and crisp, sharp text without any distortion. And, it makes it easy to display more content. You can also display HDTV content at its native resolution with quality that surpasses even that of 1080p devices. WUXGA resolution is ideal for any application requiring full Hi-Def, including Blu-ray® content, graphic intensive programs, educational film slides, and any application requiring exceptional detail.

XGA WXGA SXGA+ 1080p WUXGA

C²Fine™ technology delivers blacker blacks

C²Fine technology offers smooth, uniform images with exceptional contrast for better image quality. Based on this new phase-compensation technology, light leakage is eliminated, allowing for the reproduction of blacker blacks. C²Fine technology is combined with an auto iris, which allows for a contrast ratio up to 5000:1.

With C²Fine

Without C²Fine

State-of-the-art FineFrame™ interpolation processing technology

A movie is a series of still frames, shown in quick succession. Traditional movies are shot at 24 frames per second (fps). However, in some cases, fast-moving objects may have moved too fast to be captured on film, so they appear to jump from one part of the screen to another. This effect is called motion judder. In order to reduce motion judder, Epson has created FineFrame Interpolation Technology, which looks at the frames before and after an action, and creates an interpolated frame, halfway between two existing frames. As a result, a smoother motion is perceived by the viewer.

FineFrame Interpolation is most beneficial when viewing content such as action movies and sports videos, which are typically shown in High Definition at 30fps. In this case, multiple frames are interpolated and inserted each second, in order to create a more realistic viewing experience.

Enhanced Super-resolution technology for sharp, dramatically rich images

- Makes DVDs and standard- and high-definition content come alive via its mixed color separation techniques and imaging simulation
- Delivers crisp, clear images with super high-quality resolution
- Sharpens blurry images that have been enlarged by a general upscaling process

Super-resolution off
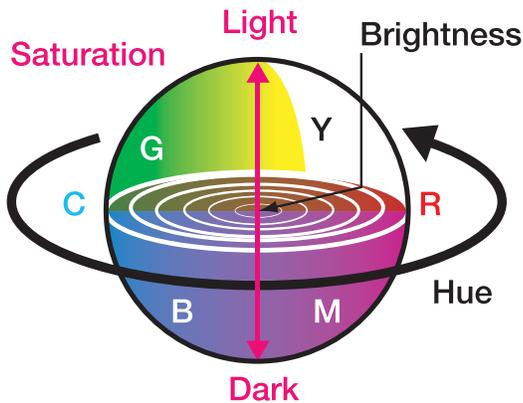
Super-resolution on

Award-winning Faroudja DCDi® Cinema for advanced video

The PowerLite Pro Z8450WUNL features a Faroudja DCDi Cinema chipset, a video enhancement technology that produces exceptional image quality without introducing artifacts. Faroudja DCDi (Directional Correlational Deinterlacing) was developed to eliminate jagging, using a unique algorithm. This technology, in combination with decoding, deinterlacing and enhancement technologies, won an Emmy Award from the National Academy of Television Arts and Sciences in 2001.

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 Features

Edge blending

Edge blending makes it easy to use multi-screen projection and achieve a seamless panoramic image, in which color and brightness match up, even in areas that overlap.
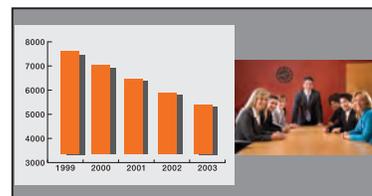

Split Screen

Split Screen[5] 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
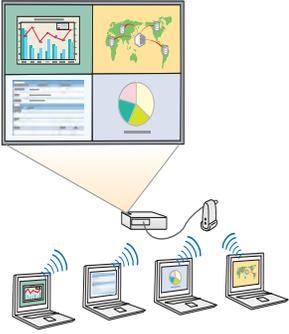

Layout Option 1: 50-50% split screen

Layout Option 2: Main image on the left

Layout Option 3: Main image on the right
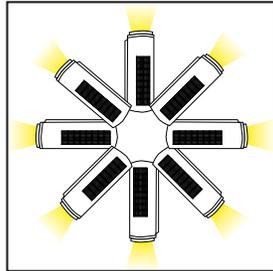
Multi-PC Projection

EPSON Multi-PC Collaboration utility allows you to display four individual PC screens simultaneously over the network (wired or wireless), 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.

360-degree projection

The PowerLite Pro Z8450WUNL can be rotated 360 degrees in any direction for off-axis positioning flexibility. As a result, it can be used for a wide range of applications, such as projecting on the ceiling or floor, or as part of a rear-projection system. EPSON technology keeps the projector running without compromising performance or causing overheating.

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[2].
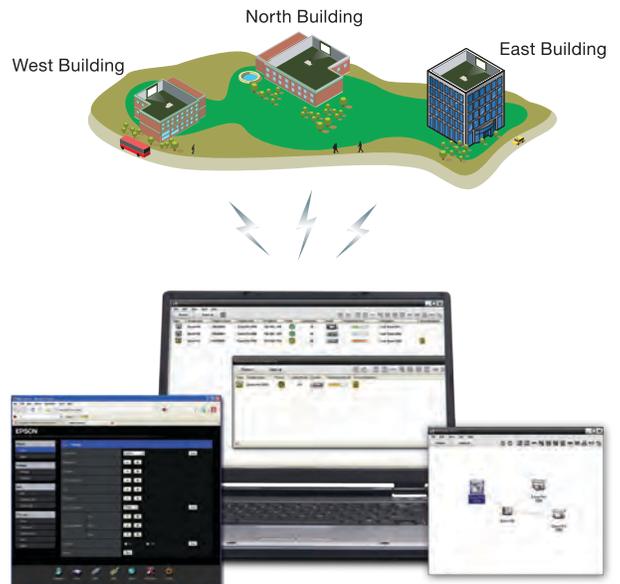
Normal Mode

DICOM Simulation Mode

Diverse connectivity

The PowerLite Pro Z8450WUNL offers HDMI, HD-SDI, BNC and LAN connectivity for easy integration with virtually any system.

Easy Management® with EPSON Monitor

EasyMP® technology makes it easy to monitor and control all networked EPSON projectors. You can use the utility while performing help desk services and proactively manage your projector assets. Remotely power down your projector(s) to extend the lamp life and produce energy savings. The utility also allows you to set up e-mail notifications, verify and change internal settings, and more. The utility is packaged on a CD with the projector and can be used with a PC to check the status of a projector. It is also available online at epson.com

North Building

West Building

East Building

Uninterrupted operation

The PowerLite Pro Z8450WUNL boasts a dual lamp system (two 340 W lamps) that eliminates the risk of interruption. If one lamp were to fail, operation would continue, using the other lamp. And, replacements are made easy with tool-free and unobstructed access to the rear control panel.
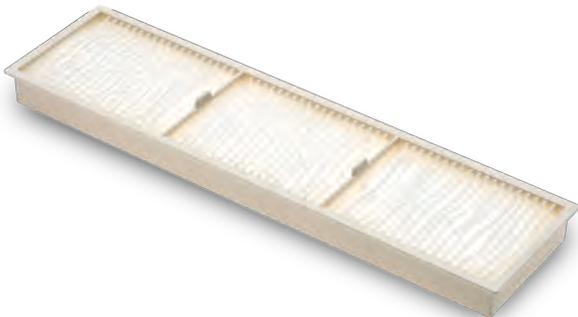
Low Cost of Ownership

Schedule function

Using the convenient Schedule function, you can easily control the projector at non-networked venues. The embedded "clock" inside the projector enables it to do scheduled tasks without having the "network stand-by mode" on. This saves energy, as the projector can be turned off when not in use.

Memory function

The Z8450WUNL features a Memory function, which allows you to store up to 10 settings in the projector's internal memory. This saves installers valuable time in setting up the projector for various venues and events.

Protect your investment — long-life electrostatic air filter

The PowerLite Pro Z8450WUNL filter is designed to protect the optical engine, lamp and electronics from small dust particles that can enter any projector. It has a recommended 10,000-hour filter cleaning schedule.[6] The EPSON electrostatic filter captures particles as small as three microns, due in part to its pleated, expanded design. With one air intake and one exhaust path, the PowerLite Pro Z8450WUNL offers an efficient airflow system for optimum cooling of key components and a reduction in dust-related problems. Additionally, it has the capability to send an e-mail notification out through the EPSON Monitor utility when an increase in temperature is detected, due to clogging.
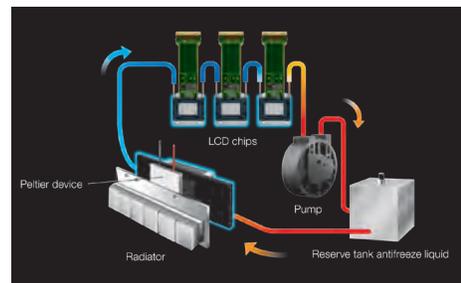
Easy maintenance

Offering convenient access to the lamps and filter, the PowerLite Pro Z8450WUNL makes maintenance easier than ever, even if the projector is ceiling mounted. The lamp cover is located on the rear side panel and there are no screws, so the lid can be removed without any special tools. In addition to easy lamp and filter replacements, the Z8450WUNL includes features that make it easy to monitor and control. With EasyMP Monitor, users can access advanced status functions over the LAN network.

Quiet, reliable liquid cooling system

Epson's innovative system uses liquid to cool the LCD chips directly. The liquid absorbs the heat and is then cooled by a peltier device, which is then cooled by a fan, thereby keeping the overall optical engine cool. This system design promotes greater reliability and enables stable operation in temperatures up to 122 °F (50 °C). In addition, it offers quiet, unobtrusive operation and allows for off-axis installation orientations.

Easy Installation Tools

Lens shift

EPSON lens shift technology enables outstanding installation flexibility with an incredible range of up to + or – 70% on the vertical axis and up to + or – 20% on the horizontal axis. Users can operate the lens shift functions using the remote control, the projector control panel, or control commands.

Arc correction

Using arc correction, you can adjust each side of a projected image in an arch or barrel-shaped way, making it easier than ever to get a perfectly rectangular image.

Centered lens design

Featuring a centered lens design, the PowerLite Pro Z8450WUNL makes installation easy to plan. Positioning the ceiling mount, screen and projector can be performed individually and independent of one another.

Six powered lens options

For great flexibility, the PowerLite Pro Z8450WUNL offers a total of six lenses including short, wide, and rear, along with mid- to long-throw lenses that allow users to choose the motorized lens most suited for their environment. A quick release lever allows for a fast, easy lens exchange. (Lens not included)

Test patterns

The PowerLite Pro Z8450WUNL also includes six test patterns with precise setup features, including detecting distortion, checking linearity, color reproduction and bleeding, and tone production check.

| Standard | Cross-hatch | Color bars |
| Checkered | Checkered reverse | Greyscale |

PowerLite Pro Z8450WUNL Features and Benefits

Image Quality

- **Powerful combination of brightness, widescreen performance and true-to-life color** — 7000 lumens color light output, 7000 lumens white light output,[1] WUXGA resolution and 3LCD, 3-chip technology
- **Core technology for added reliability** — durable LCD chips; innovative cooling system and filter design
- **Digital connectivity for 1080p, full Hi-Def performance** — HDMI with HDCP compliancy and HD-SDI, both with high-grade video processing
- **Exceptional color fidelity** — broad color reproduction covers the DCI color gamut space for viewing movies as film producers intended
- **Greater detail with blacker blacks** — C^{2}Fine technology; up to 5000:1 contrast ratio
- **Advanced video quality** — Super-resolution technology
- **FineFrame interpolation processing technology** — eliminates visible flicker and frame-to-frame judder
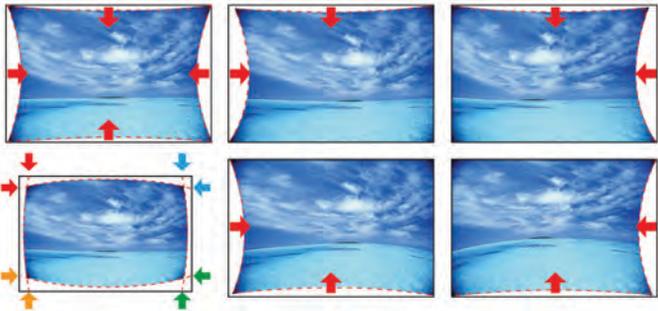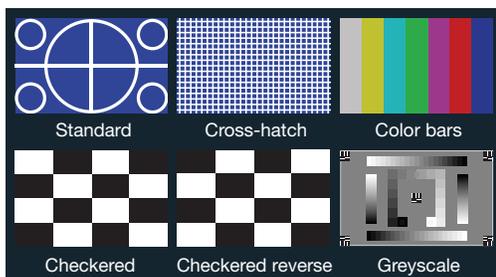
Advanced Features

- **Easier installation** — 360-degree projection and centered lens design make it easy to install the projector in any setting
- **Powered lens** — motorized zoom, focus, and lens shift, controllable through the remote, RS-232 or IP
- **Wide lens shift capabilities and arc correction** — vertical positioning of up to + or – 70%; up to + or – 20% horizontal; ability to adjust each side of an image in an arch or barrel-shaped way
- **Split Screen feature** — project two images (video or still) side-by-side from two different sources simultaneously[5]
- **Edge blending** — multi-screen projection, resulting in a seamless panoramic image
- **Demo mode** — use just one projector to see a side-by-side comparison of an image with Super-resolution and FineFrame interpolation turned on and off
- **Perfect for auditoriums and lecture hall venues** — six optional lenses including wide-, rear- and long-throw; designed with a change-out lever for easy installation
- **Direct On and Direct Off** — allows a projector to be powered on/off by use of a wall switch

Low Cost of Ownership

- **Protect your investment** — recommended 10,000-hour filter cleaning schedule[6] and easy, side-access filter
- **Easy monitor and control capabilities** — included EPSON Monitor software allows for remote monitor and control of EPSON networked projectors
- **Value-added features** — Quick Corner® for independent image corner control; built-in closed captioning decoder; cable interface cover
- **Dual lamps with long lamp life** — up to 3500-hour lamp life in ECO Mode, up to 2500 hours in Normal Mode[7]

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Connector labels: LAN, HDMI 1, HDMI 2, SDI, USB, Monitor Out, Service, RS-232, AC Inlet, S-Video, Remote, Computer 1

PowerLite® Pro Z8450WUNL
Multimedia Projector

Product Name	Product Code	UPC
PowerLite Pro Z8450WUNL Lens required	V11H462920	0 10343 88872 2

Specifications

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

Projection Method
Front/rear/ceiling mount

LCD Driving Method
EPSON Poly-silicon TFT Active Matrix

Pixel Number
2,304,000 pixels x 3LCDs

Color light output[1]
7000 lumens

White light output[1]
7000 lumens (ISO 21118 standard)

Aspect Ratio
Native 16:10, (supports 4:3, 16:9, 5:4)

Native Resolution
WUXGA (1920 x 1200)

Contrast Ratio (Normal, Dynamic Mode)
Up to 5000:1

Color Reproduction
16.7 million colors

Lamp Type
340 W x 2 UHE

Lamp Life[7]
Up to 3500 hours (ECO Mode)
Up to 2500 hours (Normal Mode)

Brightness Uniformity (typical)
90%

Pixel Arrangement
Cross stripe

Projection Lens

Screen Throw Ratio Range
1.74 – 2.82 (Standard lens)

Size (projected distance)
60" – 500"

Type
Powered zoom/focus

F-number
1.65 – 2.51 (Standard lens), lens not included

Focal Length
36 mm – 57.35 mm (Standard lens)

Zoom Ratio
Optical zoom 1.0 – 1.61 (Standard lens)

Lens Shift (powered)
Vertical: ±70%
Horizontal: ±20%

Keystone Correction
Vertical: -30 degrees to +30 degrees
Horizontal: -20 degrees to +20 degrees

Video

Video Standards
Analog: NTSC / NTSC4.43 / PAL / M-PAL /
N-PAL /PAL60 / SECAM
HDMI: 480i / 576i / 480p / 576p / 720p /
1080i / 1080p
DVI: None
SDI: 480i / 576i
HD-SDI: 720p /1080i / 1080p

Video Processing
3D Y/C separation, 3D noise reduction, Mosquito noise reduction
DCDi — Directional Correlational Deinterlacing
Motion-compensated Interlace-progressive conversion (2:2,3:2 film detection)
Super-resolution
FineFrame interpolation
4:4 Pull-down processing
Closed captioning

Interfaces

HDMI x 2
SDI x 1
Computer: D-sub 15 pin x 1
Video: BNC x 5
Composite Video: BNC x 1
S-Video: Mini DIN x 1
Wired Network: RJ-45 x 1
Wireless Network: Optional
Serial: RS-232c x 1
Hardwired Remote Jack x 1
Monitor-Out: D-sub 15 pin x 1
USB Type-A: For wireless only
USB Type-B: For service only

Networking

Connectivity
Wired: Integrated 10/100Mbps
Wireless: Optional — 802.11b/g/n
Wireless Security: WEP, WPA-PSK
(TKIP/AES), WPA2-PSK (TKIP/AES)

Remote Control and Management
EPSON EasyMP Monitor
AMX Duet and Device Discovery
Crestron Integrated Partner and RoomView
Extron IP Link
PJLink

Other Features

Speaker
None

Audio Output
None

Operating Temperature
32 ° to 122 °F (0 ° to 50 °C) — Normal
32 ° to 104 °F (0 ° to 40 °C) — Above 4900 feet

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

Power Consumption
830 W (ECO Mode)
1050 W (Normal Mode)
15 W standby (Communication on)
0.5 W standby (Communication off)

Fan Noise
35 dB (ECO Mode)
40 dB (Normal Mode)

Security
Kensington®-style lock provision, anchor (metal) bar for security lock or cable, handles attached to body for cable wrap

Dimensions (W x D x H)

Including feet (with standard lens):
21.0" x 28.9" x 8.9"
Excluding feet (with standard lens):
21.0" x 28.9" x 8.0"

Weight
48.4 lb with standard lens

Remote Control

Features
Brightness, contrast, tint, saturation, sharpness, input signal, sync, tracking, position, zoom, focus, lens shift, shutter, ID, source search, split screen

Operating Angle
Front:
Right/left ± 60 degrees
Upper/lower -45 to +15 degrees
Rear:
Right/left ± 30 degrees
Upper/lower -45 to +15 degrees

Operating Distance
49 ft

Support

The EPSON ConnectionSM
Pre-sales support
U.S. and Canada   800-463-7766
Internet website   www.epson.com

Projectors Programs
Three-year projector limited warranty, 90-day limited lamp warranty, EPSON Road Service Program and PrivateLine® dedicated toll-free support (U.S. and Canada only)

What's In The Box
PowerLite Pro Z8450WUNL projector, power cable, computer cable, projector remote control, batteries, cable cover, user manual CD, Quick Setup Sheet, PrivateLine support card, password protection sticker, monitor and control CD

Accessory Part Numbers

Lens
Standard zoom lens (ELPLS04)	V12H004S04
Long-throw zoom lens (ELPLL07)	V12H004L07
Middle-throw zoom lens 1 (ELPLM06)	V12H004M06
Middle-throw zoom lens 2 (ELPLM07)	V12H004M07
Rear projection wide lens (ELPLR04)	V12H004R04
Wide zoom lens (ELPLW04)	V12H004W04

Mount
Flush ceiling mount bracket	V12H003B25
Mount bracket with extended pipe	V12H003B26
False ceiling plate kit	ELPMBP02

Other Accessories
Wireless LAN module	V12H418P12
Kensington security lock	ELPSL01
Hardware remote control cable set	V12H005C28
Replacement remote control	1558838

Replacement Lamp
Single (ELPLP72)	V13H010L72
Dual lamp kit (lamp x 2) (ELPLP73)	V13H010L73

Replacement Air Filter Set
Replacement air filter set (ELPAF23)	V13H134A23

Packaging Specifications

PowerLite Pro Z8450WUNL
Dimensions 23.86" x 34.53" x 12.36" (W x D x H)
Weight 55.4 lb

Genuine EPSON Lamp
Single Lamp Dimensions:
5.6" x 8.0" x 6.2" (W x D x H)
Weight 1.4 lb
Dual Lamp Dimensions:
5.6" x 15.9" x 6.2" (W x D x H)
Weight 2.7 lb
Master Carton
Dimensions 16.5" x 28.5" x 7.7" (W x D x H)
Weight 16.9 lb
Units Per Master Carton: 10

Replacement Air Filter
Dimensions 3.7" x 12.9" x 1.4" (W x D x H)
Weight 0.3 lb
Master Carton
Dimensions 13.6" x 15.8" x 4.0" (W x D x H)
Weight 4.0 lb
Units Per Master Carton: 10

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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 the manufacturers provided lumens and total power data, all resolutions and brightness levels.
4   SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.
5   The Split Screen feature can only use one digital input source at a time. The other source must be an analog source (PC/Component or Composite video). However, two different analog input sources can be used at the same time.
6   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.
7   Lamp life will vary depending upon mode selected, environmental conditions and usage. Lamp brightness decreases over time.