Panasonic BUSINESS

PT-EZ590 Series
LCD Projectors

PT-EZ590/PT-EZ590L
PT-EW650/PT-EW650L
PT-EW550/PT-EW550L
PT-EX620/PT-EX620L
PT-EX520/PT-EX520L

Flexibility and Performance to Meet Your Needs

Worldwide Olympic Partner
Worldwide Paralympic Partner

DIGITAL LINK™
SINGLE CABLE SOLUTION
Why Choose Panasonic?

People choose Panasonic because our products are dependable and meet the needs of professionals and educators. The versatile PT-EZ590 Series, for example, serves up immersive pictures in almost any situation, plug-and-play, with uncommonly low running costs. Like you, Panasonic projectors are working hard to deliver results of the highest quality.

Reason 1
More than 30 years of hard-won experience stands behind every Panasonic projector we make. Innovative technology guarantees uncommonly bright and vivid pictures even in well-lit rooms.

Reason 2
Long-reach single-cable AV control, powered lens shift/zoom/focus, and wide compatibility with existing infrastructure simplify and streamline setup for permanent or portable installations.

Reason 3
From dust-resistant construction to long-life UHM lamp, the PT-EZ590 Series is engineered for trouble-free operation with very low maintenance, saving you time and money.

Natural Pictures in Bright Rooms

System Flexibility

Low Total Cost of Ownership
Compact and Stylish Projectors Deliver Up to 6,200 lm* Brightness

With up to 6,200 lm* of brightness, the PT-EZ590 Series produces brilliant images even in high levels of artificial light. Text is clear and legible while graphics and video are reproduced with natural vibrancy.

Dynamic Contrast of 10,000:1*² with Iris

High dynamic contrast of 10,000:1*² is enabled by an iris mechanism, so that whites are brighter and blacks deeper with minimal loss of detail in dark images. The result is crisp and comfortable viewing.

High WUXGA*³ Resolution for Lush Detail

With up to WUXGA*³ (1920 x 1200) resolution, the PT-EZ590 Series is capable of displaying Full HD video. The extra detail and depth engages viewers for a more compelling presentation.

Daylight View Basic Ensures Vivid Images in Bright Rooms

Panasonic’s original Daylight View Basic uses a built-in sensor to measure ambient light and calibrates image-projection to suit, optimizing brightness and halftone color and sharpening details for easy-to-see pictures in well-lit environments.

DICOM Simulation Mode for Medical Presentations

This imaging mode is similar to the DICOM Part 14 medical imaging standard. It lends a film-like quality to X-ray images, making the PT-EZ590 Series suitable for training presentations related to medicine*⁴.

Color Adjustment for Multi-screen Projection

This function corrects subtle variations in the color reproduction range of individual units set up for multi-screen projection, particularly in side-by-side configuration.
**Easy Setup and System Integration**

**Flexible Layout with Multiple Projectors**

DIGITAL LINK* makes it quick and easy to select the appropriate display device when rearranging the venue to facilitate different types of presentations, such as lectures or group discussions.

* For PT-EZ590/EZ590L, PT-EW650/EW650L, and PT-EX620/EX620L only.

**Installation Simplified with DIGITAL LINK**

PT-EZ590/EZ590L, PT-EW650/EW650L, and PT-EX620/EX620L feature a DIGITAL LINK connection that supports transmission of Full HD video, audio, and control signals through a single CAT 5e or higher STP cable for distances of up to 150 m (492 ft)*. An optional DIGITAL LINK Switcher or Digital Interface Box allows source devices to be connected and signals routed to the projector via one cable, saving installation cost and simplifying the AV system.

DIGITAL LINK is based on the HDBaseT™ communication standard developed by the HDBaseT Alliance with unique Panasonic functions added. This means peripheral HDBaseT™-compatible devices manufactured by other brands can be connected together with Panasonic products such as the ET-YFB200G for easy system control over the network.

**System configuration example**

DIGITAL LINK Switcher ET-YFB200G

Turn display devices on/off, switch inputs, and more, all from within your tablet or PC's browser.
Powered Lens Shift, Zoom, and Focus via Remote Control
The wide adjustment range of the powered horizontal/vertical lens-shift function assures convenience and versatility during installation. Zoom and focus are also easily adjusted via remote control.

Mechanical Lens Shutter
A mechanical lens shutter prevents light leakage when the projector is on standby or temporarily not in use, such as periods during meetings. Note: PT-EW500/EW550L and PT-EX520/EX520L feature an AV Mute function instead of a mechanical lens shutter.

Lens-Centered Design
A symmetrical lens-centered design reduces installation complexity and makes these projectors easier to adapt to a wider range of installation sites.

Project Wirelessly with Optional Module
The optional ET-WML100 wireless USB module enables projection of a variety of media via Windows® PCs, iOS devices, or Android™ devices loaded with an appropriate app. Whether projecting from desk or ceiling, there’s no need for cables—and it’s also possible to display content from more than one device at a time in Multi-Live Mode.

Presenter Light Ver. 1.0 for Windows® PCs
• Stills, video, documents (including PDF and PowerPoint® files), and other media displayed on the PC screen can be wirelessly projected.
• Images from up to four PCs can be projected simultaneously.

VueMagic™ Pro*7 for iOS/Android™ Devices
• Selected still images and document formats (including PDF files) are supported.
• Features Live Camera Mode and Annotate Mode.
• Images from up to four devices can be projected simultaneously.

Integrates into Existing AV Infrastructure
With support for PJLink™ Class 1, Crestron Connected, AMX, and RS-232C over wired LAN*, any legacy unit can be swapped out for a PT-EZ590 Series projector without disrupting existing control and management infrastructure. Emulation via RS-232C allows original settings to be preserved. PT-EZ590 Series supports optional Early Warning Software that notifies the administrator ahead of time when part replacement is required.

* Setting [Command Control] in the [Network Control] menu to ON enables projector control via LAN using control commands in Serial Input format. Please refer to the “Network Control” section in user manual for further details. Note that PT-EZ590 Series needs network connection request processes for individual commands. For more information, please visit our global website.

Range of Optional Lenses
Choose from a selection of optional zoom lenses for your system. The additional lenses make it easier to adapt the projector to the installation site. Lenses attach and detach with one-touch ease.

1.59 ~ 2.07
(5.2 ~ 6.6)
1.99 ~ 2.61
(6.5 ~ 8.6)
2.62 ~ 4.88
(8.6 ~ 16.0)
1.99 ~ 2.61
(6.5 ~ 8.6)
1.99 ~ 2.61
(6.5 ~ 8.6)
1.99 ~ 2.61
(6.5 ~ 8.6)
2.62 ~ 4.88
(8.6 ~ 16.0)
Dust-Resistant Cabinet and Extra-Long-Life Eco Filter
If dust gets inside the projector’s optical unit, brightness suffers. The PT-EZ590 Series protects against dust intrusion with a one-way airflow design and improved sealing for the lens block, air intake duct, and Eco Filter. This electrostatic Micro Cut Filter captures the tiniest dust particles and requires no maintenance for 15,000 hours*9. It also can be washed and reused*10. These dust-resistant projectors are designed to maintain brightness for longer in high-traffic environments while reducing servicing costs.

Extended Lamp Replacement Cycle
PT-EZ590 Series projectors feature a lamp replacement cycle of up to 5,000 hours*8. This helps to lower operating costs, reduce labor, and minimize wastage by extending the operation period between lamp maintenance.

ECO Management Slashes Power Consumption
A variety of Eco Management functions are accessible via a button on the remote controller. These include brightness optimization for ambient lighting conditions and lamp power reduction when no input signal is detected.

Quiet Operation in ECO Mode
The quiet design reduces operating noise to just 29 dB*11, with the sound of the cooling fan hardly noticeable. This helps to keep the audience focused on your presentation.

Easy-Access Lamp and Filter
To reduce hassle, the filter can be replaced via the side and the lamp from the top of the projector. There’s no need to remove the unit from its ceiling mount for periodic maintenance.

Additional Features
• Power-saving Eco Standby Mode draws just 0.3 W*12
• Direct Power Off enables safe projector shutdown via breaker switch
• Anti-theft measures include security bar, password protection, and personalized startup logo
• Supports free Multi Monitoring & Control Software
• 10 W speaker
• Closed Captioning (NTSC, 480i YC/Cc)
• Schedule Function

Related Products
Featuring a Dual Eco Filter, this compact and essentially dustproof projector is ideal for use in classrooms of small to moderate size, and features DIGITAL LINK for ease of installation.
### Projection Distance

<table>
<thead>
<tr>
<th>Projection distance (L)</th>
<th>ET-ELW31</th>
<th>ET-ELW30</th>
<th>ET-ELT30</th>
<th>ET-ELT31</th>
</tr>
</thead>
<tbody>
<tr>
<td>min.</td>
<td>0.62 (10)</td>
<td>0.81 (13)</td>
<td>1.03 (16)</td>
<td>1.47 (24)</td>
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<tr>
<td>max.</td>
<td>1.84 (30)</td>
<td>2.26 (38)</td>
<td>2.53 (40)</td>
<td>3.53 (57)</td>
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<tr>
<td>Unit</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>Zoom lenses</td>
<td>ET-ELW31</td>
<td>ET-ELW30</td>
<td>ET-ELT30</td>
<td>ET-ELT31</td>
</tr>
<tr>
<td>Standard lens</td>
<td>ET-ELW31</td>
<td>ET-ELW30</td>
<td>ET-ELT30</td>
<td>ET-ELT31</td>
</tr>
<tr>
<td>min.</td>
<td>1.03 (16)</td>
<td>1.47 (24)</td>
<td>1.96 (32)</td>
<td>2.91 (47)</td>
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<tr>
<td>max.</td>
<td>3.53 (57)</td>
<td>4.35 (69)</td>
<td>5.43 (87)</td>
<td>8.81 (137)</td>
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</tbody>
</table>

#### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit: mm (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper edge of projected image</td>
<td>498 (19.5)</td>
</tr>
<tr>
<td>Projected image</td>
<td>358 (14.0)</td>
</tr>
<tr>
<td>Lower edge of projected image</td>
<td>393 (15.5)</td>
</tr>
</tbody>
</table>

#### Optional Accessories

<table>
<thead>
<tr>
<th>Accessory Type</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoom Lens</td>
<td>ET-ELW31</td>
</tr>
<tr>
<td>ET-ELW30</td>
<td></td>
</tr>
<tr>
<td>Zoom Lens</td>
<td>ET-ELT30</td>
</tr>
<tr>
<td>Zoom Lens</td>
<td>ET-ELT31</td>
</tr>
<tr>
<td>Ceiling Mount Bracket</td>
<td>ET-PKD120H</td>
</tr>
<tr>
<td>Ceiling Mount Bracket</td>
<td></td>
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<tr>
<td>ET-PKD120S</td>
<td></td>
</tr>
<tr>
<td>Projector Mount Bracket</td>
<td>ET-PKE300B</td>
</tr>
<tr>
<td>Replacement Filter Unit</td>
<td>ET-RFE300</td>
</tr>
<tr>
<td>D-sub/S-VIDEO Conversion Cable</td>
<td>ET-ADS5</td>
</tr>
<tr>
<td>Digital Interface Box</td>
<td>ET-YFB2000</td>
</tr>
<tr>
<td>Early Warning Software</td>
<td></td>
</tr>
<tr>
<td>ET-SWA100 series</td>
<td></td>
</tr>
</tbody>
</table>

*(The value for L (distance to screen) varies slightly within ±1% depending on the zoom lens characteristics.)

Note: The zoom lens characteristics may cause slight image distortion. When vertical curvature correction is used, the image is corrected in the direction that reduces its projected size.
## Specifications

### Model: PT-EZ590/EW650/EX620/EX520

**Power consumption**
- 461 W, Normal; 424 W, Eco; 355 W (PT-EZ590/PT-EW650 with Standby Mode set to Eco1), 318 W (PT-EZ590/PT-EW650 with Standby Mode set to Normal1)
- 461 W, Normal; 424 W, Eco; 355 W (PT-EZ590L/PT-EW650L with Standby Mode set to Eco1), 318 W (PT-EZ590L/PT-EW650L with Standby Mode set to Normal1)
- 461 W, Normal; 424 W, Eco; 355 W (PT-EX620/PT-EX520 with Standby Mode set to Eco2), 318 W (PT-EX620/PT-EX520 with Standby Mode set to Normal2)

**LCD panel**
- Panel size: 16.1 mm (0.64") diagonal (16:10 aspect ratio)

**Display method**
- Transparent LCD panel (× 3, R/G/B)

**Lens**
- PT-EZ590/PT-EW650: Power zoom 1.8 x (throw ratio 1.22–2.26:1, powered focus F 1.6–2.2, 17.1–31.7 mm)
- PT-EZ590L/PT-EW650L: Optional powered zoom/fix lens

**Lamp replacement cycle**
- 3,000 hr (Lamp Power: Normal), Dynamic Mode, Iris: OFF; Daylight View: OFF, Auto Power Save: OFF
- 5,500 hr (Lamp Power: Normal), Dynamic Mode, Iris: OFF; Daylight View: OFF, Auto Power Save: OFF
- 6,000 hr (Lamp Power: Normal), Dynamic Mode, Iris: OFF; Daylight View: OFF, Auto Power Save: OFF

**Center-to-center uniformity**
- 50 %

**Contrast**
- 10,000:1 (Lamp Power: Normal, Dynamic Mode, Iris: OFF; Daylight View: OFF, Auto Power Save: OFF)
- 2,000:1 (Lamp Power: Normal, Dynamic Mode, Iris: OFF; Daylight View: OFF, Auto Power Save: OFF)
- 1,000:1 (Lamp Power: Normal, Dynamic Mode, Iris: OFF; Daylight View: OFF, Auto Power Save: OFF)

**Usable distance**
- Front: ±30 % (powered)
- Rear: ±50 % (powered)

**Keypad illumination range**
- Vertical: ±30 °, horizontal: ±30 °
- Vertical: ±5 °, horizontal: ±5 °

**Installation**
- Ceiling, floor, wall

**Built-in speaker**
- 4.0 cm (monaural) x 1

<table>
<thead>
<tr>
<th>Terminals</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIGITAL LINK/LAN</td>
<td>RJ-45 x 1 for network and DIGITAL LINK connection, 10/100Base-TX, compatible with PJLink™, HDCP, Deep Color</td>
</tr>
<tr>
<td>MONITOR OUT</td>
<td>D-sub 9-pin (female) x 1, 4.0 cm (monaural) x 1</td>
</tr>
<tr>
<td>INPUT</td>
<td>D-sub 9-pin (female) x 1, 4.0 cm (monaural) x 1</td>
</tr>
<tr>
<td>REMOTE IN</td>
<td>M3 x 1 for wired remote control</td>
</tr>
<tr>
<td>SERIAL IN</td>
<td>Pin jack x 2 (L/R x 1), M3 x 2 (L-R x 2)</td>
</tr>
<tr>
<td>MONITOR OUT</td>
<td>RGB 2 IN, HDMI/DIGITAL LINK/RS-232C, DIGITAL LINK (not included on PT-EW550/EW550L/EX520/EX520L)</td>
</tr>
<tr>
<td>DIGITAL LINK/LAN</td>
<td>RJ-45 x 1 for network and DIGITAL LINK connection, 10/100Base-TX, compatible with PJLink™, HDCP, Deep Color</td>
</tr>
<tr>
<td>Network (ET-ENW100)</td>
<td>USB-A</td>
</tr>
</tbody>
</table>

**Projector control**
- For wireless remote control unit x 1, IR sensor x 1, operation range 20 to 80 ft (6 to 25 m) (by the combination)
- Software: EZ-Remote, Multi Monitoring and Control Software

**Supplied accessories**
- Power cord with power cord holder x 1, wireless remote control unit x 1, batteries (R03/LR03/AAA type x 2), Software CD-ROM x 1 (Logo Transfer Software)

**Panasonic**

For all information included here is valid as of October 2016. 
PT-EZ590G2 Printed in Japan.