### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PT-RZ700</th>
<th>PT-RW930</th>
<th>PT-RX110</th>
<th>PT-RZ970</th>
<th>PT-RW930</th>
<th>PT-RX110</th>
<th>PT-RZ660</th>
<th>PT-RW620</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Projector type</strong></td>
<td>1-Chip DLP™ Projector</td>
<td>1-Chip DLP™ Projector</td>
<td>1-Chip DLP™ Projector</td>
<td>1-Chip DLP™ Projector</td>
<td>1-Chip DLP™ Projector</td>
<td>1-Chip DLP™ Projector</td>
<td>1-Chip DLP™ Projector</td>
<td>1-Chip DLP™ Projector</td>
</tr>
<tr>
<td><strong>Power size</strong></td>
<td>2,304,000 (1920 x 1200) pixels</td>
<td>1,024,000 (1280 x 800) pixels</td>
<td>1,024,000 (1280 x 800) pixels</td>
<td>2,304,000 (1920 x 1200) pixels</td>
<td>1,024,000 (1280 x 800) pixels</td>
<td>1,024,000 (1280 x 800) pixels</td>
<td>2,304,000 (1920 x 1200) pixels</td>
<td>2,304,000 (1920 x 1200) pixels</td>
</tr>
<tr>
<td><strong>Display method</strong></td>
<td>DLP™ (16:10 aspect ratio)</td>
<td>DLP™ (16:10 aspect ratio)</td>
<td>DLP™ (16:10 aspect ratio)</td>
<td>DLP™ (16:10 aspect ratio)</td>
<td>DLP™ (16:10 aspect ratio)</td>
<td>DLP™ (16:10 aspect ratio)</td>
<td>DLP™ (16:10 aspect ratio)</td>
<td>DLP™ (16:10 aspect ratio)</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>Motorized zoom &amp; focus</td>
<td>Motorized zoom &amp; focus</td>
<td>Motorized zoom &amp; focus</td>
<td>Motorized zoom &amp; focus</td>
<td>Motorized zoom &amp; focus</td>
<td>Motorized zoom &amp; focus</td>
<td>Motorized zoom &amp; focus</td>
<td>Motorized zoom &amp; focus</td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td>UST LED source (ET-DLE055)</td>
<td>UST LED source (ET-DLE055)</td>
<td>UST LED source (ET-DLE055)</td>
<td>UST LED source (ET-DLE055)</td>
<td>UST LED source (ET-DLE055)</td>
<td>UST LED source (ET-DLE055)</td>
<td>UST LED source (ET-DLE055)</td>
<td>UST LED source (ET-DLE055)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>498 x 200 x 581 mm (19 19/32˝ x 7 7/8˝ x 22 7/8˝)</td>
<td>498 x 200 x 581 mm (19 19/32˝ x 7 7/8˝ x 22 7/8˝)</td>
<td>498 x 200 x 581 mm (19 19/32˝ x 7 7/8˝ x 22 7/8˝)</td>
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<td>498 x 200 x 581 mm (19 19/32˝ x 7 7/8˝ x 22 7/8˝)</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>1,050 W</td>
<td>950 W</td>
<td>825 W</td>
<td>1,050 W</td>
<td>950 W</td>
<td>825 W</td>
<td>1,050 W</td>
<td>950 W</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>1 Year</td>
<td>1 Year</td>
<td>1 Year</td>
<td>1 Year</td>
<td>1 Year</td>
<td>1 Year</td>
<td>1 Year</td>
<td>1 Year</td>
</tr>
</tbody>
</table>

Note: The values in the table are approximate and subject to change without notice. For the latest information, please visit www.panasonic.net/cns/projector/download/application/ for detailed specifications and other information.

Panasonic

For more information about Panasonic projectors, please visit:
Projector Global Website: https://panasonic.net/cns/projector/
Facebook: https://www.facebook.com/PanasonicProjector/
YouTube: https://www.youtube.com/user/PanasonicProjector
For High-Impact Images in Any Space, We Have the Answer

Applications for our 6,000–10,000-lumen RZ970 Series laser projector lineup extend from education, exhibition, and signage through to events and staging. With a shared design philosophy, these compact 1-Chip DLP™ projectors deliver picture quality approaching that of our 3-Chip DLP™ models while retaining flexibility for a stress-free installation. The series not only leads the field in outright image quality; it also provides the stable, consistent, low-maintenance performance that professional users demand.

**PT-RZ970 Series**
- **With supplied lens**
  - WM5GA
    - 10,000 lm (Center)*
    - WXGA
  - XGA
    - 10,400 lm (Center)
    - 10,000 lm
  - 10,000:1

**PT-RZ870 Series**
- **With supplied lens**
  - WM5GA
    - 8,800 lm (Center)*
    - WXGA
  - XGA
    - 8,500 lm
  - 10,000:1

**PT-RZ770 Series**
- **With supplied lens**
  - WM5GA
    - 7,200 lm (Center)*
    - WXGA
  - XGA
    - 7,000 lm
  - 10,000:1

**PT-RZ660 Series**
- **With supplied lens**
  - WM5GA
    - 6,200 lm (Center)*
    - WXGA

* At this time, brightness will have decreased to about half its original level (Dynamic Contrast Mode 3, Image Mode: Dynamic). Panasonic recommends cleaning or checkup at point of purchase after about 20,000 hours. Light output will vary depending on the usage environment. Replacement of parts other than the light source may be required within a shorter period.

*1 The value of the light output at the center region of the projected image is extracted based on the light output measurement method defined by the ISO/IEC 21118:2012 international standards.
**Powerful Brightness, Excellent Picture Quality, Lasting Reliability**

**Superior White Balance and Color Reproduction**

The Quartet Color Harmonizer wheel mechanism captures a wider color space than comparable projectors, which allows white to reproduce more realistically on screen. Some conventional projectors can't achieve an accurate white balance, so an images can appear with a distracting greenish tint. Not the case with Panasonic SOLID SHINE Laser projectors.

**Dynamic Contrast Function for High Contrast**

The RZ970 Series directly modulates laser power output to achieve high contrast with low power consumption. Digitally controlled frame-by-frame scene-linking modulation enables highly precise output adjustment, while accurate 18,000:1 contrast is delivered even when bright and dark scenes frequently interchange.

**SOLID SHINE Laser Maintains Image Quality Longer**

Two long-lasting solid-state laser modules ensure the image-color and brightness remain steady, extending both color-reproduction and overall operation life. Because there are no lenses to replace, maintenance cost and projector downtime is reduced. In Normal Mode, RZ970 Series projectors can work continuously for about 20,000 hours. In Eco Mode, operation is extended to around 24,000 hours* of continuous projection, making these units ideal for roles in education and signage.

**Detail Clarity Processor 3 Sharpens the Finest Details**

This unique Panasonic circuit optimizes the sharpest of each image based on the super high, high, medium, and low frequency components of the extracted image information. The resulting images are expressed with natural, convincing realism.

**System Daylight View 3 for Sharp and Vivid Images in Bright Environments**

Panasonic's original System Daylight View 3 prevents images from washing out in well-lit environments and enhances brightness perception in multi-projector mapping applications by adjusting sharpness and gamma curves and correcting colors. The result is greater visual impact even in challenging conditions.

**Consistent, Stable Performance**

**Stable 24/7 Operation with Light-Source Failover Protection**

Dual Drive Laser Optical Engine groups laser diodes into two discrete modules. A fail-safe redundancy circuit works to maximize brightness, and color-uniformity is less affected by a laser diode fail, making the RZ970 Series ideal for mission-critical applications. Further, brightness decreases more gradually and consistently than lamp-based projectors over a 20,000-hour* maintenance-free projection period.

**SOLID SHINE Laser Maintains Image Quality Longer**

Two long-lasting solid-state laser modules ensure the image-color and brightness remain steady, extending both color-reproduction and overall operation life. Because there are no lenses to replace, maintenance cost and projector downtime is reduced. In Normal Mode, RZ970 Series projectors can work continuously for about 20,000 hours. In Eco Mode, operation is extended to around 24,000 hours* of continuous projection, making these units ideal for roles in education and signage.

**Dust-Resistant Airtight Optical Block**

The RZ970 Series' optical block is airtight, ensuring consistent, long-lasting image quality for up to 25,000* hours without maintenance. The optical block design passed stringent testing to assure utmost reliability in environments with up to 0.15 mg per cubic meter of airborne particulates. The result is greater visual impact even in challenging conditions.

**Multi-Screen System Support Seamlessly Connects Multiple Screens**

**Edge Blending**

Edges of adjacent screens can be blended and their luminance controlled.

**Color Matching**

Corrects for slight variations in the color reproduction range of individual projectors. PC software assures easy, accurate control.

**Multi-Screen System Support Seamlessly Connects Multiple Screens**

This function automatically corrects brightness and color fluctuations that occur over time in individual projectors in a multi-screen system. Control up to 8 projectors operating as one hub increasing to a maximum of 2048 projectors with Multi Monitoring & Control Software.

**Multi-Unit Brightness and Color Control**

This function automatically corrects brightness and color fluctuations that occur over time in individual projectors in a multi-screen system. Control up to 8 projectors operating as one hub increasing to a maximum of 2048 projectors with Multi Monitoring & Control Software.

**Geometric Adjustment for Custom Screen Surfaces**

Geo Adjustment adapts the image for projection onto spherical, cylindrical, and other specially shaped screens. Five-turning is performed with the remote control, with no external equipment needed. Paired with Multi-Screen Support System, highly creative mapping presentations are possible in a variety of event and staging applications.

**Geometry Manager Pro Software**

Geometry Manager Pro software expands built-in functionality and makes complex adjustments easy. The free software package includes enhanced color matching and edge blending for multi-screen projection and adjustment of multiple screens over the network.

**Optional ET-UK20 Upgrade Kit for Geometry Manager Pro**

An optional ET-UK20 Upgrade Kit for Geometry Manager Pro adds creative masking capability using four lines or bitmap data as well as uniformity correction and correction area expansion.

**Optional ET-CUK10 Series Auto Screen Adjustment Upgrade Kit**

This optional kit automates the Auto Screen Adjustment plug-in software for Geometry Manager Pro, allowing you to set up multiple projectors automatically and simultaneously and saves significant amount of time and money. Performing multi-screen and current screen projection calibration in three quick steps using a camera** and PC connected to the projector network, this software eliminates tedious adjustment, edge blending, color matching, stacking, brightness, and black level.

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*With Dynamic Contrast Mode set to 3. **At the time, brightness will decrease down to 50% of original and Light Source is set to 6. 2. 2. Panasonic Dust Test Standard — test conditions: dust density: 1mg/m³ ± 5mg/m³, test duration: 200 hours, test conditions: dust density: 1mg/m³ ± 5mg/m³, test duration: 200 hours.
Quick Start and Quick Off
The laser light-source doesn’t require any warm-up, so images appear almost instantly (in about one second*) with RZ970 Series projectors. There’s also no cool-down period needed when turning the power off at the mains—the projector can be turned on and off any time as necessary.

Backup Input Setting Optimizes Performance
This feature allows smooth switching to a backup input signal should the primary digital link signal fail, easing display control, room operation, mapping, and stepping, and in other applications where image maintenance must be maintained.

Conventional System
Multiple input sources are projected on-screen simultaneously.

Backup Input Setting
Multiple input sources are projected on-screen simultaneously but the main input signal is interrupted, allowing up to 4 seconds.

Other Valuable Features
- Web Browser Control
- Quiet Mode to reduce operational noise*
- DICOM Simulation Mode™
- Rec. 709 mode for HDTV projection to provide accurate colors
- Waveform Monitor for simple yet precise adjustment
- Shutter effect with fade-in/fade-out function
- Adjustable input level adjustment intervals (0.5 to 4.0 seconds, or 0 to 5, 7, or 10-second intervals)
- P-in-P function**
- Image rotation function
- On-screen menu rotatable in Portrait Mode
- Anti-theft features including chain opening and security bar
- Customizable start-up logo
- RS-232C connection for up to 56 units
- Built-in test pattern (free)

** Software functionality varies depending on the model.

Supports Art-Net DMX, Crestron Connected™, and PJLink™

The RZ970 Series is compatible with Art-Net DMX protocol for lighting management. This allows the projector to be connected to a lighting console, operating in the console’s range of addressable functionality and control options. The included LAN/DIGITAL LINK terminal also supports Crestron Connected™ and PJLink™ (Classic) for easy integration of these projectors into an existing AV network utilizing multiple device brands.

Multi Monitoring & Control Software
Panasonic Multi Monitoring & Control Software supports up to 2,048 devices over LAN and features system map visualization or auto search of devices to be registered. This free software is available with Early Warning functions: automatic free 90 day trial available. These advanced functions enable real-time monitoring, abnormal detection, and notification before servicing is required. Administrators can achieve seamless control and real-time monitoring while preventing potential problems, saving time, and enhancing system reliability.

Optional Accessories

<table>
<thead>
<tr>
<th>Optional Accessories</th>
<th>ET-DM8200</th>
<th>ET-DM8300</th>
<th>ET-DM1000</th>
<th>ET-DM1050</th>
<th>ET-DM5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-RW930/PT-RX110/PT-RW930/PT-RX110 only</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
</tr>
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</table>

Note: Use ET-PKD120H, ET-PKD130S, and ET-PKD130B in combination with ET-PKD120B. ET-PKD130B is recommended when used with ET-GL530.

Projection Distances

<table>
<thead>
<tr>
<th>Screen size (diagonal)</th>
<th>Distance to screen (ft)</th>
<th>Distance to screen (m)</th>
<th>Recommended lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>100˝</td>
<td>1.91</td>
<td>0.58</td>
<td>ET-DLE350</td>
</tr>
<tr>
<td>120˝</td>
<td>4.57</td>
<td>1.39</td>
<td>ET-DLE400</td>
</tr>
<tr>
<td>160˝</td>
<td>6.10</td>
<td>1.86</td>
<td>ET-DLE450</td>
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Dimensions

<table>
<thead>
<tr>
<th>Screen size (diagonal)</th>
<th>Screen height</th>
<th>Screen width</th>
</tr>
</thead>
<tbody>
<tr>
<td>100˝</td>
<td>1.91</td>
<td>0.58</td>
</tr>
<tr>
<td>120˝</td>
<td>4.57</td>
<td>1.39</td>
</tr>
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<td>1.86</td>
</tr>
</tbody>
</table>

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