Panasonic BUSINESS

MAKING YOUR AUDIENCE GO WILD.

Introducing the PT-RQ22K/PT-RZ21K Series.
Panasonic’s dynamic new showstopping laser projector for large venues.

Lens sold separately.

Graphic is simulated.
Explore New Possibilities with the World's Smallest and Lightest 20,000-lm-class Laser Phosphor Projectors*¹

The PT-RQ22K/PT-RZ21K Series gives staging innovators an edge where the limits of projection are routinely tested. As the world’s smallest and lightest 20,000-lm-class laser projector*, the RZ21K series can be easily handled by just two people and realizes 20,000 hours** of maintenance-free projection thanks to hermetically sealed optics and filterless heat-pipe-based cooling. And now, Panasonic unveils the groundbreaking PT-RQ22K, the world’s smallest and lightest 20,000-lm-class 4K+ laser projector**. It shares the same maintenance-free design while delivering unassailable 4K+ image-quality. Together with a lens lineup that’s compatible with all large-venue projectors, the PT-RQ22K/PT-RZ21K Series makes world-class projection smooth and cost-effective.

**1 As of May, 2019. Among the laser projectors in 20,000-lumen class or higher. **2 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [3], under conditions with 35 °C (95 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m³ of particulate matter. Panasonic recommends cleaning or checkup at point of purchase after every 20,000-hour period (approximately). Estimated maintenance time varies depending on environment. **3 As of May, 2019. Among 20,000-lumen-class projectors with 4K resolution or higher.

<table>
<thead>
<tr>
<th>3-Chip DLP™ Projector</th>
<th>PT-RQ22K</th>
<th>PT-RZ21K Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>4K+</td>
<td>WUXGA</td>
</tr>
<tr>
<td>Light output</td>
<td>20,000 lm* / 21,000 lm (Center)**</td>
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<tr>
<td>Contrast</td>
<td>20,000 : 1***</td>
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</table>

* Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped.

Average light-output value of all shipped products measured at center of screen in NORMAL Mode.

Full On/Full Off. With Dynamic Contrast Mode set to 3.
Inside the 4K+ Image

**Achieving 4K+ with Original Pixel Quadrupling Technology**  PT-RQ22K ONLY

Better-than-4K resolution is achieved by employing a high-speed 2560 x 1600-pixel (WQXGA) DMD chip that shifts each pixel vertically and horizontally, quadrupling the pixel-count. Working in concert with Real Motion Processor 240 Hz frame-creation, Quad Pixel Drive technology produces film-like 5120 x 3200-pixel (4K+/16:10) images. As well as silk-smooth video, this powerful processing engine renders text in the finest detail for lectures and presentations.

**Pixel Quadrupling Technology**

Shifting pixels vertically and horizontally creates ultra-high-resolution pictures that exceed standard Ultra HD resolution.

**Real Motion Processor**

High-speed 240 Hz frame creation supports images up to 5120 x 3200 pixels (16:10) resolution*.

**Real Motion Processor Reduces Motion Blur**  PT-RQ22K ONLY

Real Motion Processor uses sophisticated algorithms to create three additional frames for each image, boosting native 60 fps footage to 240 frames per second*. The result is smooth and realistic motion rendering, particularly useful for the broadcast of sporting events and other fast-paced video. Further, images can be displayed with SDI, DVI-D, and HDMI simultaneous inputs*. A refined optical engine enhances focus performance for a lifelike sense of resolution, contrast, and fluidity.

* Refresh-rate varies depending on vertical scanning frequency. Note that 240 Hz frame-rate is down-sampled to 60 Hz when projecting at 4K+ resolution. PT-RQ22K/PT-RS22K boosts frame-rate to a maximum of 120 Hz.

*1 HDMI and DVI-D terminals available only on optional SLOT NX boards. Geometric Adjustment and Upgrade Kit functions are not supported with simultaneous video signal input.
Delivering Film-like 4K+ Projection at Higher Brightness

The PT-RQ22K projects bright, film-like 4K+ (5120 x 3200) images without visible pixels for video reproduction that’s extremely clear and natural. Quad Pixel Drive teams with huge laser brightness for an ultra-high-resolution experience that will blow your audience away.

Auto Gamma and Color Space Select Functions

When HDR video is input via HDMI® or DIGITAL LINK, the projector parses the signal’s metadata and selects the optimal gamma and color-space modes for natural HDR image projection. Video is projected at best quality without requiring manual configuration.

Lower TCO in NORMAL and ECO Modes

The PT-RQ22K/PT-RZ21K Series is engineered to operate for 20,000 hours* without maintenance, with no filter or light-source replacement required even in challenging operating conditions. In applications where maximum brightness isn’t necessary, such as in surveillance, control, or simulation rooms, or in darkened museums or planetariums, ECO Mode extends continuous operation out to about 24,000 hours*. In this mode, color consistency is maintained with a flatter brightness ramp preserving high picture quality for longer while reducing total cost of ownership.

Supports BT.2020 Emulation and HDR

The PT-RQ22K/PT-RZ21K Series has emulation for BT.2020. It reproduces a wider color gamut than conventional standards. Additionally, the projectors support HDR (High Dynamic Range). Image reproduction is stunning, from deepest black to sparkling highlights.

New Noise-Reduction Function Enhances HDR Reproduction

Visible noise in dark areas of the video image can be eliminated with Panasonic’s new digital noise-reduction technology. The six-step optimizer is effective with video featuring expanded dynamic range by suppressing noise artifacts in shadowy areas while preserving the original high quality and brightness of lighter areas.

Free 360-degree Orientation

SOLID SHINE Laser enables free 360-degree installation through any axis. Together with powered lens shift and wide range of optional lenses, the PT-RQ22K/PT-RZ21K Series projectors can be installed in any orientation without picture distortion.

Experience True-to-Life Imaging with Detail Clarity Processor 5+

New-generation circuitry analyzes images frame by frame to clarify areas containing fine textures. Algorithms extract information from four bands, sharpening contours, and reducing ringing noise. Exclusive Refine Enhancer further enhances the subtlest details in 4K+ images.

Auto Gamma and Color Space Select Functions

- Frequency analysis engine
- Mid-pass filter
- High-pass filter
- Detail Clarity Processor 5+

Power Management Reduces Downtime

Auto power management compensates for voltage fluctuations. Image display is maintained at a reduced brightness even if voltage drops below specified requirements, rather than shutting the projector off.

Innovating Class-beating Picture Quality in Permanent or Staging Installations
Peak Optimization for Mapping and Daylight Projection

This premium technology stops pictures washing out in bright light and assures dramatic impact for mapping and multi-projector applications. It uses sensor information to correct sharpness, gamma curves, and colors to suit on-site conditions.

Contrast and Shutter Sync Functions

Contrast Sync allows Dynamic Contrast Control to be synchronized for consistent picture quality across multiple screens. Shutter Sync, meanwhile, synchronizes shutter on/off timing.

90% Brightness Uniformity

SOLID SHINE Laser delivers superior brightness uniformity thanks to accurate white balance control. Brightness uniformity is greater than 90% when measured at screen corners, edges, and center.

Multi-unit Brightness and Color Control

Sensors detect color and brightness apparent on screen. Projectors automatically calibrate for a uniform multi-screen image, adding a layer of convenience and cost saving both in short-term and long-term events.

Quick Start and Quick Off

No warm-up or cool-down period is required when operating PT-RQ22K/PT-RZ21K Series projectors. Images appear almost instantly, and the projector can be switched on and off whenever desired.

Waveform Monitor for Black/White Level Adjustment

If the output levels of the media source device fluctuate, the original black and white levels contained in the image can’t be reproduced correctly. Panasonic projectors with Waveform Monitor function allow you to view this information on screen and make adjustments accordingly.

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

Art-Net DMX protocol for lighting management enables connection with lighting consoles for added functionality and control options. Crestron Connected® and PJLink™ (Class 2) streamline integration into existing AV infrastructure.

Electrical Convergence Adjustment Function

To expedite calibration, the PT-RQ22K’s Electrical Convergence Adjustment Function® can adjust pixels 0.25p vertically and horizontally. This is invaluable when optical image convergence isn’t practical.

Frame Delay Adjustment for Multi-projection

Frame synchronization may be fine-tuned with the PT-RQ22K/PT-RZ21K Series. Users can adjust frame delay in 1/100th millisecond increments for perfectly synchronized video. This improves multi-projection compatibility with projectors such as the PT-DZ21K2.
Over-Engineered for Consistently Bright, Dependable, and Efficient Projection

Filterless Laser Design Delivers 20,000-hour*1 Maintenance-free Operation

The Panasonic PT-RQ22K/PT-RZ21K Series is the world’s first 20,000-lm-class laser projector lineup*2 to eliminate air filters from its design, enabling maintenance-free operation for 20,000 hours*1. This is achieved with hermetically sealed optics and unique heat-pipe-based cooling with one-way airflow. The projector can operate continuously for long periods without regular maintenance, saving operators time and money. With no filters to replace and controlled brightness ramp, the PT-RQ22K/PT-RZ21K Series saves you real money.

Multi-screen Support System

This system optimizes multiple screens with edge blending, color matching, and digital image enlargement functions.

- **Edge Blending**: Edges of adjacent screens can be blended and their luminance controlled.
- **Color Matching**: Corrects color reproduction variations of each projector via PC control software.
- **Digital Image Enlarging**: Digital zoom up to 10x (H/V)*4, and up to 100 units (10 x 10) can be edge-blended to create large multi-screen images.

Dual-Drive Laser with Dustproof Optics

These projectors are virtually dustproof to preserve the stunning brightness delivered by dual solid-state laser modules, which feature redundancy circuitry. Hermetically sealed optical block helps prevent failures and extends brightness. Exceeding the toughest standards for operation in dusty environments, these projectors stay brighter for longer.

Backup Input Guarantees Picture Display

Projectors switch instantly to a backup input*3 should the primary signal be disrupted, so display is maintained in situations where projection must not be interrupted. No screen-blanking occurs during backup input switching.

Note: Primary and secondary signals must be the same.

Conventional System

Multiple-wide-screen projection

Backup Input Setting

Multiple-wide-screen projection

Partially blank!

If the main input signal is disrupted, image display is cut off

If primary signal is disrupted, back-up signal smoothly engages to maintain image display

Clean Environment

WTO Europe Guidelines for Dust Resistance

Japanese Building Maintenance Association ASHRAE*3

0.030 mg/m³

0.110 mg/m³

0.150 mg/m³

Panasonic Dust Test Standard

* American Society of Heating, Refrigerating, and Air-Conditioning Engineers.

Panasonic Dust Test Standard

0.030 mg/m³

0.110 mg/m³

0.150 mg/m³

Panasonic Dust Test Standard

*1 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [3], under conditions with 35 °C (95 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m³ of particulate matter. Panasonic recommends cleaning or checkup at point of purchase after every 20,000-hour period (approximately). Estimated maintenance time varies depending on environment. *2 As of October 2017 (PT-RZ21K Series). *3 Combination of primary/secondary input terminals is fixed. Switching to secondary input (or primary input) occurs automatically when the input signal for primary input (or secondary input) is disrupted. The Backup Input Setting is enabled only when the input signal to primary and secondary terminals is the same. *4 While input resolution will not change, maintaining image quality is not possible for images enlarged.
**Projector Management and Control Flexibility**

**Single-Cable DIGITAL LINK Video and Control Connection**

DIGITAL LINK transmits video and control commands through a single CAT 5e or higher STP cable for distances of up to 150 m (492 ft) for Full HD video and 50 m (164 ft) for 4K** video**. Optional DIGITAL LINK Switcher further simplifies installation and reduces cabling and associated costs.

**Smart Projector Control**

Smart Projector Control is a powerful smartphone app that enables remote operation of supported Panasonic projectors. Install Smart Projector Control on your iPhone or Android™ phone or tablet, connect to your compatible Panasonic projectors via Wi-Fi (LAN), and control a variety of functions including lens adjustment, input switching, status monitoring, and more.

**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. The free software is available with Early Warning functions (automatic free 90-day trial available). These advanced functions enable real-time monitoring, abnormality 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.

![Multi Monitoring & Control Software Diagram](image)

**Geometric Adjustment with Free Grid Correction via Remote Control**

Panasonic has added a new Free Grid function to existing Geometric Adjustment that enables convenient grid-based image adjustment using the projector’s remote controller. Grid resolutions of 2 x 2, 3 x 3, 5 x 5, 9 x 9, or 17 x 17 can be projected and areas of the image reshaped or geometrically altered to compensate for screen distortions. This correction is easily performed by adjusting control points located at grid-line intersections. Move freely between grid resolutions to achieve the desired level of granularity without losing work progress. This clever data-saving function allows technicians to smoothly create a distortion-free projection in a wide range of installation situations.


**Geometry Manager Pro Software and Upgrade Kits**

Download free Geometry Manager Pro software to expand geometric and multi-screen setup and calibration capabilities via PC. The suite includes two upgrade kits that can be optionally unlocked with paid key codes. ET-UK20 adds uniformity correction and extensive creative masking capabilities. ET-CUK10 features Auto Screen Adjustment which enables simultaneous setup (including curved-screen correction) of multiple projectors for multi-screen applications using a compatible camera. This streamlines edge-blending, color-matching, black-level, stacking, and brightness uniformity calibration.

![Geometry Manager Pro Software and Upgrade Kits](image)

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*1 PT-RZ22K only. *2 ET-YFB200G/YFB100G is not compatible with 4K signals. 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080p in Long Reach Mode.
Optional Accessories

**ET-D3LEW50**
Fixed-focus Lens

**ET-D3LEW60**
Zoom Lens

**ET-D3LEW10**
Zoom Lens

**ET-D3LE820**
Zoom Lens

**ET-D3LE30**
Zoom Lens

**ET-D3LE40**
Zoom Lens

**ET-D3LE80**
Zoom Lens

**ET-D3LEF70**
Fisheye Lens

**ET-D75LE95**
Fixed-focus Lens

**ET-D75LE6**
Zoom Lens

**ET-D75LE10**
Zoom Lens

**ET-D75LE20**
Zoom Lens

**ET-D75LE30**
Zoom Lens

**ET-D75LE40**
Zoom Lens

**ET-D75LE8**
Zoom Lens

**ET-D75MKS10**
Stepping Motor Kit

**ET-YFB200G**
DIGITAL LINK Switcher

**ET-YFB100G**
Digital Interface Box

**ET-MDNDV10**
Interface Board for DVI-D 2 Input

**ET-MDNHM10**
Interface Board for HDMI 2 Input

**ET-MDN12G10**
Interface Board for 12G-SDI (Input x 2, Input/Output x 2)

**TY-TBN03G**
Interface Board for 3G-SDI (Input x 2, Output x 2)

**ET-PKD520H**
Ceiling Mount Bracket for High Ceilings

**ET-PKD520S**
Ceiling Mount Bracket for Low Ceilings

**ET-PKD520B**
Projector Mount Bracket

**ET-PFD510**
Frame

**ET-UK20**
Geometry Manager Pro Software Upgrade Kit

**ET-CUK10 / ET-CUK10P**
Auto Screen Adjustment Upgrade Kit

**ET-SWA100 Series**
Early Warning Software

Note: Calibration is required each time the lens is mounted.

* This lens is equipped with Auto Lens Identification Function.
** This lens is equipped with Auto Lens Identification Function and Stepping Motor.

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**AC IN terminal**

**Power outlets that can be used**

- 2P/3 W 15 A 250 V
- 2P/3 W 15 A 125 V

**Dimensions**

Unit: mm (inches)

- 307 [12-1/32]
- 516 [20-5/16]
- 588 [23-17/32]
- 745 [29-11/32]
- 644 [25-11/32]
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PT-RQ22K</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Projector type</strong></td>
<td>3-Chip DLP™ projector</td>
</tr>
<tr>
<td><strong>DLP™ chip</strong></td>
<td>Panel size: 22.9 mm (0.9 in) diagonal (16:10 aspect ratio)</td>
</tr>
<tr>
<td><strong>Display method</strong></td>
<td>DLP™ chip x 3</td>
</tr>
<tr>
<td><strong>Pixels</strong></td>
<td>4,096,000 (2560 x 1600) x 3, total of 12,288,000 pixels, 48,152,000 (12,288,000 x 4) pixels when Quad Pixel Drive set to ON</td>
</tr>
<tr>
<td><strong>Refresh rate</strong></td>
<td>240 Hz*1</td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td>Laser Diode</td>
</tr>
<tr>
<td><strong>Light output</strong></td>
<td>20,000 lm*2 / 21,000 lm (Center)*3</td>
</tr>
<tr>
<td><strong>Time until light output declines to 50%</strong></td>
<td>20,000 hours (NORMAL) / 24,000 hours (ECO)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>4K* (3840 x 2160) (Quad Pixel Drive: ON)</td>
</tr>
<tr>
<td><strong>Contrast</strong></td>
<td>20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)</td>
</tr>
<tr>
<td><strong>Screen size (diagonal)</strong></td>
<td>1.78–25.4 m (70–1,000 in) with 16:10 aspect ratio, 1.78–15.24 m (70–600 in) with the ET-D75LE8 / ET-D3LET80, 16:10 aspect ratio, 3.05–15.24 m (120–600 in) with the ET-D75LE95, 16:10 aspect ratio</td>
</tr>
<tr>
<td><strong>Center-to-corner uniformity</strong></td>
<td>90%</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>Optional (no lens included with this model)</td>
</tr>
<tr>
<td><strong>Lens shift</strong></td>
<td>Vertical (from center of screen): ±58% (±56% with ET-D75LE6 / ET-D3LEW60, ±69% – +84% with ET-D75LE95) (powered)</td>
</tr>
<tr>
<td><strong>Keystone correction range</strong></td>
<td>Horizontal (from center of screen): ±29% (±19% with ET-D75LE6 / ET-D3LEW60, ±21% with ET-D75LE95) (powered)</td>
</tr>
<tr>
<td><strong>Keystone correction range with optional ET-UK20 Upgrade Kit</strong></td>
<td>Vertical: ±45° (±40° with ET-D75LE10 / ET-D3LEW10, ET-D75LE20 / ET-D3LES20, ±22° with ET-D3LEW50, ±28° with ET-D75LE6 / ET-D3LEW60, ±5° with ET-D75LE95), Horizontal: ±40° (±15° with ET-D75LE95) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding total of 55°.</td>
</tr>
</tbody>
</table>

**Installation**

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<th>1. DC OUT 1 terminal</th>
<th>2. DC OUT 2 terminal</th>
<th>3. REMOTE 1 IN terminal</th>
<th>4. REMOTE 1 OUT terminal</th>
<th>5. REMOTE 2 IN terminal</th>
<th>6. SERIAL IN terminal</th>
<th>7. SERIAL OUT terminal</th>
<th>8. MULTI PROJECTOR SYNC IN terminal</th>
<th>9. MULTI PROJECTOR SYNC OUT terminal</th>
<th>10. DIGITAL LINK/LAN terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SDI 1 IN</strong></td>
<td>BNC x 1: 3G/HD/SDI input, Dual-link HD-SDI (Link A), Dual-link 3G-SDI (Link 1), Quad-link HD-SDI (Link 1), Quad-link 3G-SDI (Link 1)</td>
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<tr>
<td><strong>SDI 2 IN</strong></td>
<td>BNC x 1: 3G/HD/SDI input, Dual-link HD-SDI (Link B), Dual-link 3G-SDI (Link 2), Quad-link HD-SDI (Link 2), Quad-link 3G-SDI (Link 2)</td>
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<tr>
<td><strong>SDI 3 IN</strong></td>
<td>BNC x 1: 3G/HD/SDI input, Dual-link HD-SDI (Link A), Dual-link 3G-SDI (Link 3), Quad-link HD-SDI (Link 3), Quad-link 3G-SDI (Link 3)</td>
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<tr>
<td><strong>SDI 4 IN</strong></td>
<td>BNC x 1: 3G/HD/SDI input, Dual-link HD-SDI (Link B), Dual-link 3G-SDI (Link 2), Quad-link HD-SDI (Link 4), Quad-link 3G-SDI (Link 4)</td>
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<td><strong>MULTI PROJECTOR SYNC IN</strong></td>
<td>BNC x 1</td>
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<tr>
<td><strong>MULTI PROJECTOR SYNC OUT</strong></td>
<td>BNC x 1</td>
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<tr>
<td><strong>SERIAL IN</strong></td>
<td>D-sub 9-pin (male) x 1 for external control (RS-232C compliant)</td>
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<tr>
<td><strong>SERIAL OUT</strong></td>
<td>D-sub 9-pin (male) x 1 for link control (RS-232C compliant)</td>
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<tr>
<td><strong>REMOTE 1 IN</strong></td>
<td>M3 stereo mini-jack x 1 for wired remote control</td>
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<tr>
<td><strong>REMOTE 1 OUT</strong></td>
<td>M3 stereo mini-jack x 1 for link control</td>
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<tr>
<td><strong>REMOTE 2 IN</strong></td>
<td>D-sub 9-pin (female) x 1 for external control (parallel)</td>
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<tr>
<td><strong>DC OUT</strong></td>
<td>USB Type A x 2 (for power supply DC 1 V total of 2 A)</td>
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<tr>
<td><strong>Expansion Slot</strong></td>
<td>SLOT 1 / SLOT 2 ( allot two terminals, vacant for interface boards, SLOT Nr compatible)</td>
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<tr>
<td><strong>Power supply</strong></td>
<td>AC 200 V–240 V: 8.5 A, 50/60 Hz (Light output will decrease to approximately 50 % when using the projector with AC 100 V to AC 120 V [9.8 A])</td>
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<tr>
<td><strong>Power consumption</strong></td>
<td>1.650 W (0.3 W with Standby Mode set to ECO*, 4 W with Standby Mode set to NORMAL)</td>
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<tr>
<td><strong>Cabinet materials</strong></td>
<td>Molded plastic</td>
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<tr>
<td><strong>Operation noise</strong></td>
<td>46 db</td>
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<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>600 mm x 307 mm*7 x 745 mm (23 5/8˝ x 12 3/32˝ x 29 11/32˝) (including protruding parts); 54.0 kg (119 lbs)</td>
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<tr>
<td><strong>Weight</strong></td>
<td>54.0 kg (119 lbs)</td>
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<tr>
<td><strong>Operating environment</strong></td>
<td>Operating temperature: 0–45 °C (32–113 °F) (powerful)</td>
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<tr>
<td><strong>Applicable software</strong></td>
<td>Logo Transfer Software, Multi Monitoring &amp; Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control for iOS/Android™</td>
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*1 Refresh rate varies depending on scanning frequency. *2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. *3 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. *4 Around this time, light output will have decreased by approximately 50%. *5 Estimated time until light output declines to 50% will vary depending on environment. *6 Lens shift is not supported on the ET-D75LE95. *7 When Standby Mode is set to ECO, network functions such as power on/off LAN will not operate. Additionally, only certain commands can be received for external control using the serial terminal. *8 With legs at shortest position. *9 No chromosome. May differ depending on the actual unit. *10 Operating temperature is 0–40 °C (32–104 °F) when used in locations from 1,400 m to 3,000 m (4,593 ft to 9,842 ft) above sea level, and 0.15 mg/m 3 of particulate matter. *11 Operating temperature is 0–40 °C (32–104 °F) when used in locations from 3,001 m to 4,200 m (9,843 ft to 13,779 ft) above sea level. *12 Operating in ECO or NORMAL mode at elevations between 0–2,700 m (0–8,858 ft) or at elevations between 2,700–4,200 m (8,858–13,780 ft) in ambient temperatures exceeding 40 °C (104 °F), or at elevations between 2,700–4,200 m (8,858–13,780 ft) in ambient temperatures exceeding 35 °C (95 °F), light output may be reduced to protect the projector.
# Specifications

<table>
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<tr>
<th>Model</th>
<th>PT-RZ21K</th>
<th>PT-RS20K</th>
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</table>

### Projector type
- 3-Chip DLP™ projector

### Display method
- DLP™ chip x 3

### Panel size
- 24.4 mm (0.96 inches) diagonal (16:10 aspect ratio)
- 24.1 mm (0.95 inches) diagonal (4:3 aspect ratio)

### Resolution
- 1920 x 1200 pixels
- 1400 x 1050 pixels

### Refresh rate
- 120 Hz**

### Light source
- Laser Diode

### Light output
- 20,000 lm*2 / 21,000 lm (Center)*3
- 1,400 x 1050 pixels

### Time until light output declines to 50%**
- 20,000 hours (NORMAL) / 24,000 hours (ECO)
- 20,000 lm*2 / 21,000 lm (Center)*3

### Screen size (diagonal)
- 1.78-25.4 m (70-1,000 in) with 16:10 aspect ratio, 1.78-15.24 m (70-600 in) with the ET-D75LE / ET-D3LET80, 16:10 aspect ratio, 3.05-15.24 m (120-600 in) with the ET-D75LE95, 4:3 aspect ratio

### Center-to-corner uniformity**
- 90 %

### Lens
- Optional (no lens included with this model)

### Lens shift**
- Vertical (from center of screen): ±55 % (±44 % with ET-D75LE / ET-D3LET80, ±67 % with ET-D75LE95 (powered))
- Horizontal (from center of screen): ±50 % (±40 % with ET-D75LE / ET-D3LET80, ±67 % with ET-D75LE95 (powered))

### Keystone correction range
- Vertical: ±45° (±40° with ET-D3LEW10 / ET-D75LE95, 0° with ET-D75LE95)
- Horizontal: ±40° (±15° with ET-D3LEW50, 0° with ET-D75LE95)

### Installation
- Horizontal/vertical, free 360-degree installation

### Terminals
- SDI IN 1
  - BNC x 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link A), Dual-link 3G-SDI (Link 1)
- SDI IN 2
  - BNC x 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link B), Dual-link 3G-SDI (Link 2)
- HDMI IN
  - HDMI x 1 (Deep Color, compatible with HDCP)
- DVI-D IN
  - DVI-D 24-pin x 1 (Deep Color, compatible with HDCP)
- RGB 1 IN
  - RGB x 1 (BNC x 5): RGB/YP BPR/YCBCR/YC/VIDEO
- D-sub HD 15-pin (female) x 1: RGB/YP BPR
- RGB 2 IN
  - D-sub HD 15-pin (female) x 1: RGB/YP BPR
- MULTI PROJECTOR SYNC IN / 3D SYNC 1 IN/OUT
  - BNC x 1
- MULTI PROJECTOR SYNC OUT / 3D SYNC 2 OUT
  - BNC x 1
- SERIAL IN
  - D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
- SERIAL OUT
  - D-sub 9-pin (male) x 1 for link control (RS-232C compliant)
- REMOTE 1 IN
  - M3 stereo mini-jack x 1 for wired remote control
- REMOTE 1 OUT
  - M3 stereo mini-jack x 1 for link control
- REMOTE 2 IN
  - D-sub 9-pin (female) x 1 (Parallel interface)
- DIGITAL LINK / LAN
  - RJ-45 x 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PJLink™ (Class 2), Deep Color, HDCP
- DC OUT
  - USB Type A x 2 (for power supply DC 5 V total of 2 A)

### Power supply
- AC 200 V–240 V, 7.7 A, 50/60 Hz
- Light output will decrease to approximately 50 % when using the projector with AC 100 V to AC 120 V [9.6 A]

### Power consumption
- 1,510 W (0.3 W with Standby Mode set to ECO**, 4 W with Standby Mode set to NORMAL)

### Cabinet materials
- Molded plastic

### Operation noise**
- 46 dB

### Dimensions (W x H x D)
- 600 mm x 307 mm x 245 mm (23 5/8˝ x 12 3/32˝ x 9 11/16˝) (including protruding parts)
- 598 mm x 270 mm x 225 mm (23 17/32˝ x 10 5/8˝ x 8 17/32˝) (not including protruding parts)

### Weight**
- 49.0 kg (108 lbs)

### Operating environment
- Temperature: 0–50 °C (32–122 °F)**; Operating humidity: 10–80 % (no condensation)

### Applicable software
- Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control for OS (Android)**

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