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

MAKE YOUR AUDIENCE GO WILD.
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For more information about Panasonic projectors, please visit:
Projector Global Website – panasonic.net/cns/projector
Facebook – www.facebook.com/panasonicprojector
YouTube – www.youtube.com/user/PanasonicProjector
Explore New Possibilities with the World’s Smallest and Lightest 20,000-lm-class Laser Phosphor Projectors*

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.

2. 240 Hz frame-rate is down-sampled to 60 Hz when projecting at 4K+ resolution. PT-RZ21K/PT-RS20K boosts frame-rate to a maximum of 120 Hz.

3. A refined optical engine enhances focus performance for a lifelike sense of resolution, contrast, and fluidity.

4. 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-RZ21K/PT-RS20K boosts frame-rate to a maximum of 120 Hz.

Achieving 4K+ with Original Pixel Quadrupling Technology

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 silky-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

Real Motion Processor (RMP) technology supports images up to 5120 x 3200 pixels (16:10) resolution. Each frame is shifted vertically and horizontally at 240 Hz 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 or other fast-paced video. Further image processing is displayed with 3840 x 2160 pixels (4K+/16:9) home theatre and HD/1080p standards inputs.* A refined optical engine enhances focus performance for a lifelike sense of resolution, contrast, and fluidity.

Screen Resolution

Beyond Ultra HD

Screen Resolution* Maximum physical resolution.

Lenses sold separately.

PT-RQ22K ONLY

PT-RZ21K/PT-RS20K

Lenses sold separately.
Innovating Class-beating Picture Quality in Permanent or Staging Installations

Delivering True 4K+ Projection at Higher Brightnesses

The PT-RQ22K projects bright, true 4K+ images ($4000$ x $2320$ pixels) onto visible pixels for video reproduction that’s extremely clean and natural. Quad Pixel Drive teams with high brightness for an ultra-high-resolution experience that will blow your audience away.

Supports BT.2020 Emulation and HDR

The PT-RQ22K/PT-RZ21K Series has a new BT.2020 color gamut, which prevents the projector's color palette from conventionalamentals. Additionally, the projector supports 10-bit Dynamic Range Image reproduction is stunning, from deepest blacks 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 key stage operation is effective with video featuring expanded dynamic range such as noise-suppressing audio with invisible areas where unwanted noise and brightness of lighter areas.

Auto Gamma and Color Space Select Functions

When HDR video is input via HDR™ or BT.2020, the projector analyzes the picture's metadata and selects the optimal gamma and color space modes for highest HDR image quality. This feature is projected at best quality without requiring manual configuration.

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

Quad Pixel Drive teams with huge laser brightness for an ultra-high-resolution experience that will blow your audience away. New high-density clarity analysis images frame by frame to clarify areas containing fine 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.

Peak Optimization for Mapping and Daylight Projection

The present technology stays picture washing out in bright light and assures dynamic impact for mapping and multi-projector applications. It uses sensor information to correct sharpness, gamma curves, and colors to suit on-site conditions.

Contract and Stutter Sync Functions

Contract Sync allows Dynamic Contrast Control to be synchronized for consistent picture quality across multiple screens. Stutter Sync simultaneously synchronizes stutter effect from all projectors.

90% Brightness Uniformity

SILENT MODE allows 90% of optimum brightness for acquisition thanks to accurate white balance control. Brightness uniformity is greater than 95% when measured at screen center, edges, and corner.

Multi-unit Brightness and Color Control

Sensitivity depth of color and brightness apparent on screen. Projectors automatically calculate for a uniform multi-screen image, adding a layer of convenience and cost savings to look alike frames and large event screens.

Lower TCO PROOMA, and ESG Models

The PT-RQ22K/PT-RZ21K Series is engineered to provide 20,000 hours of trouble-free operation without the need for frequent, costly servicing. In addition to lower service costs, reduced maintenance has a significant impact on environmental applications where maintenance intervals cannot be increased.

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Power Management Reduces Operation

Acoustic package design and acoustic performance controls. Fluctuations, image display is maintained at a real brightness and-clarity levels. These features are superior in appearance, especially when projecting 2 hour or more.

Quick Start and Quick Off

The new up-front chain design makes quick replacement of the lamp/CFD for a fast start. The projector can be switched on and off instantly.

Frame Delay Adjustment for Multi-projector

Frame synchronization may occur between the PT-RQ22K or PT-RZ21K Series projectors. This issue can be avoided by switching on the PT-RQ22K or PT-RZ21K Series projectors and 4K+ images are rendered in sequence.

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

Art-Net DMX enables remote control and configuration functions for the projector. Crestron Connected™ supports Crestron Connected™ protocols for the projector. PJLink™ (Class 2) supports control and integration in existing AV infrastructures.

Electrical Convergence Adjustment Function

If an aspect profile is loaded onto the PT-RQ22K/PT-RZ21K Series, the PT-RQ22K/PT-RZ21K Series can be moved to the second screen and make adjustments accordingly.

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Multi-Monitoring & Control Software
Panasonic Multi-Monitoring & Control Software supports up to 2,048 devices over LAN and features system map visualization and alert monitoring while preventing potential problems, saving time, and enhancing system reliability. Panasonic Multi-Monitoring & Control Software 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 projector via Wi-Fi (LAN), and control a variety of functions including image adjustment, input switching, volume control, and more.

Projector Management and Control Flexibility
Smart Projector Control is a powerful smartphone app that enables remote operation of supported Panasonic projectors. 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 abnormalities of each projector via PC control software.
- Digital Zoom: Digital zoom up to 10x can be performed by adjusting parallel positioning coordinates.
- Geometric Adjustment: Color matching, black-level, stacking, and brightness uniformity calibration.
- Multi-source Wide: Edges of adjacent screens can be blended and their luminance controlled.
- Multiple-unit Projection: Multiple-screen setup and calibration capabilities via PC. The suite includes two upgrade kits that can be optimized with plug-ins and 3D steering kit.
- Projector Settings: Editor then grid manager and expansion module for edge blending, color matching, black-level, stacking, and brightness uniformity calibration.

Over-Engineered for Consistently Bright, Dependable, and Efficient Projection
Panasonic has added a new Feature Kit to existing Geometry Adjustment that enables users to control grid line image adjustment using the projector’s remote controller. Grid resolutions of 2 x 2, 3 x 3, 5 x 5, 7 x 7, and 17 x 17 can be projected and an image of the reflected light can be captured and used as the image input for connected scanners. This is easily performed by adjusting control points located at grid intersections. Move away from grid intersections to achieve the desired level of granularity without losing work progress. This feature uses an image adjustment feature to smoothly adjust a digital filter to a wide range of shooting situations.

Digital Image Enlarging: Digital zoom up to 10x can be performed by adjusting parallel positioning coordinates.
- Edge-blended: Edges of adjacent screens can be blended and their luminance controlled.
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### Optional Accessories

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<th>Image</th>
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<tr>
<td>ET-OL21W**</td>
<td>F-1.7x2.0mm 1.7x2.0mm 2.0x2.0mm</td>
<td><img src="70%CB%9D" alt="Image" /></td>
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</tbody>
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PT-RQ22K

Specifications

Model
PT-RQ22K

Features
3-Chip DLP™ projector

Performance
Resolution
24.4 mm (0.96 inches) diagonal (16:10 aspect ratio)
24.1 mm (0.95 inches) diagonal (4:3 aspect ratio)

DLP™ chip x 3

Refresh rate
240 Hz*1
120 Hz*1

Terminals
Light source
20,000 lm*2 / 21,000 lm (Center)*3

Specifications

*4
20,000 hours (NORMAL) / 24,000 hours (ECO)

Time until light output declines to 50 %

4K+ (5120 x 3200) (Quad Pixel Drive: ON)

Resolution
1920 x 1200 pixels 1400 x 1050 pixels

Contrast
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,

Screen size (diagonal)
3.05–15.24 m (120–600 in) with the ET-D75LE95, 16:10 aspect ratio

3.05–15.24 m (120–600 in) with the ET-D75LE95, 4:3 aspect ratio

3.05–15.24 m (120–600 in) with the ET-D75LE95, 16:10 aspect ratio

Center-to-corner uniformity

Keystone correction range
Vertical: ±40° (±22° with ET-D3LEW50, ±28° with ET-D75LE6 / ET-D3LEW60, 0° with ET-D75LE95)

Horizontal: ±15° (0° with ET-D75LE95)

When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding total of 55°.

Remote control
Optional (no lens included with this model)

Vertical (from center of screen)
±50 % (±40 % with ET-D75LE6 / ET-D3LEW60, +67 % – +71 % with ET-D75LE95) (powered)

Horizontal (from center of screen)
+68 % – +78 % with ET-D75LE95) (powered)

BNC x 1: 3G/HD/SD-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)

SDI 2 IN
BNC x 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link A), Dual-link 3G-SDI (Link 1)

SDI 3 IN
BNC x 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link B), Dual-link 3G-SDI (Link 2)

DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP) (Single-link only)

DVI-D IN

RGB x 1 (BNC x 5): RGB/YP BPR/YCBCR/YC/VIDEO

SDI 4 IN
BNC x 1: 3G/HD/SD-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)

MULTI PROJECTOR SYNC IN
BNC x 1

RGB 2 IN

SERIAL IN

REMOTE 1 IN

REMOTE 2 OUT

MULTI PROJECTOR SYNC OUT / 3D SYNC 2 OUT
BNC x 1

REMOTE 1 OUT

REMOTE 2 IN

SERIAL OUT

USB Type A x 2 (for power supply DC 5 V total of 2 A)

M3 stereo mini-jack x 1 for link control

SLOT 1 / SLOT 2 (total two terminals, vacant) for interface boards, SLOT NX compatible

Power supply
DIGITAL LINK/LAN

1,650 W (0.3 W with Standby Mode set to ECO* 6, 4 W with Standby Mode set to NORMAL)

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 

Operating environment

Dimensions (W x H x D)
49.0 kg (108 lbs)

Weight

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

Operating environment

Operating temperature is 0–40 °C (32–104 °F) when used in locations from 1,400 m to 8,858–13,780 ft) in ambient temperatures exceeding 25 °C (77 °F), light output may be reduced to protect the projector.

Requirements

Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software,

Infoiris License Key, Remote Control Operation License Key, E-Book License Key.

ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control for iOS/Android ™
