Revolutionizing the Visual Experience with 50,000 lm*1 Brightness, Native 4K Resolution, and Vivid Color

Main Features

01 | Breathtaking 50,000 lm*1, Native 4K Color-Rich Images

Overwhelm with a Native 4K experience delivering 50,000 lm*1 and ultra-wide color-gamut expression. Vivid reds and deep, natural blues realize spectacular on-screen color expression.

02 | All-in-One Versatility Streamlines On-Site Workflow

Doubles the brightness of our PT-RQ32K from the same footprint; Smart Projector Control*2 with NFC Function*3; and Remote Preview expedite workflow.

03 | Original Cooling System Secures Projection Stability

Liquid-cooling system features finless radiator and separate red-laser cooling system with Dynamic Digital Control for absolute reliability at events.

Specifications:

<table>
<thead>
<tr>
<th>Light Output</th>
<th>50,000 lm*1 / 51,000 lm (Center)*4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>Native 4K (4096 x 2160 pixels)</td>
</tr>
</tbody>
</table>

* Lens sold separately.

*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. *2 Check device and OS compatibility at the App Store or the Google Play store. For more information, please visit https://panasonic.net/cns/projector/download/application/smartpj/. *3 Projectors sold in some countries or regions require an ET-NT10 upgrade kit available from PAS to activate NFC function. See https://panasonic.net/cns/projector/products/smartpjcontrol/regional.html for details. *4 Average light-output value of all shipped products measured at center of screen in NORMAL Mode.
Expanded Color-Gamut Perfects the 50,000 Im® Native 4K Experience

The groundbreaking PT-RQ50K utilizes a new red laser and dual blue lasers that emit light at different wavelengths for deeper reds and truer blues. The laser engine contributes to an expansive color-gamut 114% larger than our PT-RQ22K for true-to-life color expression.

Compact All-in-One Body with Built-in Cooling

PT-RQ50K doubles the PT-RQ32K’s brightness from the same footprint, with built-in cooling introducing the logistical advantages of all-in-one Native 4K projection to the biggest events. Newly fluidic radiator boosts liquid-cooling efficiency by 30%*2 while separate red-laser cooling system has Dynamic Digital Control for excellent image consistency.

Remote Preview Saves Time and Unnecessary Stress

Newly introduced within Multi Monitoring & Control Software and also accessible via web browser, Remote Preview allows projectionists to check the content being received by the projector via a Wi-Fi®- or LAN-connected laptop. It works with the projector in Standby, with the shutter on, or when direct sunlight makes on-screen image inspection difficult. It gives a chance to fix errors between the source and projector before setup is completed.

Reliable Endurance in Tough Conditions

Hermetically sealed DMD block, filterless design, and shielded lasers exceed international dustproofing guidelines for 20,000 hours*3 of maintenance-free projection. Laser modules have Failover Circuitry which bypasses a failed diode’s series rather than the entire projector for imperceptible brightness loss, reinforcing reliability when image projection must be maintained.

Other Features

- Preactivated upgrade kits for Geometry Manager Pro PC software
- Smart Projector Control app® with NFC function® supports setting adjustment with projector off, auto-focus via smartphone camera®
- Information Monitor complements physical controls with text-based LCD
- Power supplies (US/JP only) support 190–240 V for setup and 200–240 V for full brightness projection
- New lens lineup includes new ET-D30W200 Short-Throw Zoom Lens (0.55–0.65:1) supports AFO (Active Focus Optimizer) and Auto Lens ID functions
- Backup Input switches to backup signal if primary signal is interrupted
- Gradation Smoother reduces banding

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PT-RQ50K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projector type</td>
<td>3-Chip DLP® projector</td>
</tr>
<tr>
<td>DLP® chip</td>
<td>35.1 mm (1.38 in) diagonal (17:9 aspect ratio)</td>
</tr>
<tr>
<td>Panel size</td>
<td>Width 1.18 in x 0.38 in diagonal (17:9 aspect ratio)</td>
</tr>
<tr>
<td>Display method</td>
<td>DLP® chip x 3, DLP® projection system</td>
</tr>
<tr>
<td>Number of pixels</td>
<td>8,847,360 (4096 x 2160 pixels) x 3</td>
</tr>
<tr>
<td>Light source</td>
<td>Laser diodes (4 Blue LD, Red LD)</td>
</tr>
<tr>
<td>Light output</td>
<td>50,000 Im® (3,940 lm) (ET-D3QT600), 40,000 Im® (3,040 lm) (ET-D3QT700), 30,700 Im® (2,450 lm) (ET-D3QT800)</td>
</tr>
<tr>
<td>Time until light output declines to 50%*4</td>
<td>20,000 hours (ET-D3QT600), 25,000 hours (ET-D3QT700), 30,000 hours (ET-D3QT800)</td>
</tr>
<tr>
<td>Contrast ratio*5</td>
<td>15,000:1 (ET-D3QT600) / 10,000:1 (ET-D3QT700) / 6,000:1 (ET-D3QT800)</td>
</tr>
<tr>
<td>Screen size (diagonal)</td>
<td>2.54–3.81 m (100–150 in) with new optional lens for PT-RQ50K, 17:9 aspect ratio</td>
</tr>
<tr>
<td>Lens shift format</td>
<td>Vertical from center of screen: ±16 % (±8 % with ET-D3QT600; ±10 % with ET-D3QT700/ET-D3QT800; ±14 % with ET-D3QW300; 0 %, +17 % with ET-D3QW200) (powered)</td>
</tr>
<tr>
<td>Keystone correction range</td>
<td>Vertical: ±40° (±15° with ET-D3QW200, ±28° with ET-D3QW300); Horizontal: ±40° (±5° with ET-D3QW200, ±15° with ET-D3QW300)</td>
</tr>
</tbody>
</table>

Terminals

- MULTI PROJECTOR SYNC IN: BNC x 1
- MULTI PROJECTOR SYNC OUT: BNC x 1
- SERIAL IN: D-sub 9-pin (female) 1 for external control (RS-232C compatible)
- SERIAL OUT: D-sub 9-pin (male) 1 for link control (RS-232C compatible)
- REMOTE IN: M3 stereo mini jack 1 for wired remote control
- REMOTE OUT: M3 stereo mini jack 1 for link control
- DIGITAL LINK: RJ-45 x 1 for network connection, PJLink® (Class 2) compatible, 10Base-TX, Art-Net compatible, HDCP 2.2 compatible, Deep Color compatible
- USB X 2 (Type A) 1 for optional Wireless Module (AJ-WM50 Series) / USB Memory Stick
- DIGITAL LINK Switcher: ET-MDNDP10
- Expansion Slot 1: Interface Board for 12G-SDI (ET-MDN12G10) supplied
- Expansion Slot 2: Optional (interface boards, SLDT FX compatible)

Power supply

- AC 100–240 V, 50/60 Hz; AC 100–120 V, 50/60 Hz (Brightness restricted to one fifth with voltage of 100–120 V)
- Power consumption: 4,500 W (ET-D3QW200) / 3,940 W (ET-D3QT600) / 3,040 W (ET-D3QT700) / 2,450 W (ET-D3QT800)

Dimensions (W x H x D)

- 720 x 449 x 1,060 mm (28.3/4 in x 17-11/32 in x 42-1/8 in) (including handle, adjuster feet, and other protruding parts)
- Weight*: 126 kg (278 lbs) (without lens)

Operation noise*1

- 52 dB (A) at operation noise*1

Power supplies

- Input power (US/JP): 100–120 V for setup and 200–240 V (for PT-RQ50K)
- Power supply: 100–120 V for setup and 200–240 V (for PT-RQ50K)

Optical Accessory

- Zoom Lens
- Interface Board for 12G-SDI Input (Input x 2, Output x 2) ET-MDN12G10
- Interface Board for HDMI® (HDCP 2.2) Input (Input x 2) ET-MDN410
- Interface Board for DisplayPort® (Input x 2) ET-MDN610
- Wireless Module
- Digital Interface Box

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Panasonic CONNECT

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Facebook – www.facebook.com/panasonicprojectoranddisplay
YouTube – https://www.youtube.com/user/panasonicProjector

Note: Following the shift of the Panasonic Group to a holding company system, the Connected Solutions Company of the Panasonic Corporation has changed to Panasonic Connect Co., Ltd., as of April 1, 2022.

All information included here is valid as of April 2022.

RQ50K_G3 Printed in Japan.