



**The World's Smallest and Lightest 42,000  
lm\*1 Projector: The New Benchmark in 4K  
Projection Mapping**

**PT-RQ45K**

3-Chip DLPTM laser projector with 42,000 lumens brightness and 4K (3840 × 2400) resolution using Quad Pixel Drive. Features a multi-laser light engine (dual blue lasers and one red laser) for high color accuracy and smooth gradation. Supports interchangeable lenses (lens not included). Operating noise: approximately 50 dB. Equipped with an Intel® SDM slot, 12G-SDI input, and a 5-inch built-in LCD monitor for preview and status monitoring. Designed as a compact, lightweight all-in-one body optimized for rental and staging workflows, compatible with existing frames and lenses. Supports 240 Hz (1080p) input, 24/7 continuous operation, and 360-degree installation. Approximate weight 70 kg. dimensions 598 x 353

**Key Features**

A Revolution in Workflow Efficiency

Lasting Reliability in Harsh Environments

Spectacular Visuals for the Biggest Events



## PT-RQ45K

<https://ap.pnd.panasonic.com/hk/en/pt-rq45k>

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| <b>Projector type</b>                                                   | 3-Chip DLP™ projector                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Display method</b>                                                   | DLP™ chip x 3, DLP™ projection system                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Display Device -&gt; Panel size</b>                                  | 24.4 mm (0.96 in) diagonal (16:10 aspect ratio)                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Display Device -&gt; Number of pixels</b>                            | 2,304,000 (1920 x 1200 pixels) x 3                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Light source</b>                                                     | Laser diodes (Blue LD, Red LD)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Light output *2</b>                                                  | 42,000 lm*3                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Light output (ANSI) *3</b>                                           | 42,000 lm*4                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Light output (Center) +4</b>                                         | 43,600 lm*5                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Time until light output declines to 50 % -&gt; NORMAL *5</b>         | 20,000 hours [NORMAL]                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Time until light output declines to 50 % -&gt; ECO *5</b>            | 24,000 hours [ECO]                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Time until light output declines to 50 % -&gt; QUIET</b>             | 26,000 hours [QUIET]                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Resolution</b>                                                       | PT-RQ42K: 4K (3840 x 2400 pixels) (Quad Pixel Drive: ON)<br>PT-RZ41K: WUXGA (1920 x 1200 pixels)                                                                                                                                                                                                                                                                                                                                               |
| <b>Contrast Ratio (typ.) *2</b>                                         | 25,000 : 1(Full On/Full Off, Dynamic Contrast [3])                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Screen size (diagonal)</b>                                           | 1.78-25.40 m (70-1000 in) (Depending on attached lens)                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Center-to-corner zone ratio *2</b>                                   | 90%                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Lens</b>                                                             | Optional (No lens included with this model)                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Lens shift -&gt; Vertical(from center of screen)</b>                 | ±55 % (+68 %, +78 % with ET-D75LE95, ±48 % with ET-D3LEW201, ±44 % with ET-D3LEW60/D3LEW300/D3LEW600) (Powered)                                                                                                                                                                                                                                                                                                                                |
| <b>Lens shift -&gt; Horizontal(from center of screen)</b>               | ±20 % (±15 % with ET-D3LEW300/D3LEW600/D3LEW201, ±12 % with ET-D75LE95, 0 %, +25 % with ET-D3LEU101) (Powered)                                                                                                                                                                                                                                                                                                                                 |
| <b>Keystone correction range</b>                                        | Vertical: ±45 ° (± 40 ° with ET-D3LEW10/D3LES20/D3LES250, ±28 ° with ET-D3LEW600, ±22 ° with ET-D3LEW50, ±15 ° with ET-D3LEW201/D3LEW300, ±8 ° with ET-D3LEU101, +5 ° with ET-D75LE95);<br>Horizontal: ±40 ° (±15 ° with ET-D3LEW50/D3LEW600, ±5 ° with ET-D3LEU101/D3LEW201/D3LEW300, 0 ° with ET-D75LE95)<br>When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 ° |
| <b>Installation</b>                                                     | Ceiling/floor, front/rear, free 360-degree installation                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Terminals -&gt; SDI IN</b>                                           | BNC x 1 : 12G / SDI input                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Terminals -&gt; HDMI™ IN</b>                                         | HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input*7)                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Terminals -&gt; MULTI PROJECTOR SYNC IN</b>                          | BNC x 1                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Terminals -&gt; MULTI PROJECTOR SYNC OUT</b>                         | BNC x 1                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Terminals -&gt; SERIAL IN</b>                                        | D-sub 9-pin (female) x 1 for external control (RS-232C compliant)                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Terminals -&gt; REMOTE 1 IN</b>                                      | M3 stereo mini-jack x 1 for wired remote control                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Terminals -&gt; REMOTE 1 OUT</b>                                     | M3 stereo mini-jack x 1 for link control (for wired remote control)                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Terminals -&gt; LAN</b>                                              | RJ-45 x 1 for network connection, PjLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible                                                                                                                                                                                                                                                                                                                                        |
| <b>Terminals -&gt; DC OUT</b>                                           | USB Connector Type A x 1 (for power supply, DC 5 V, 2 A)                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Terminals -&gt; USB TYPE A</b>                                       | USB connector Type A x 1 for optional AJ-WM50 Series Wireless Module/USB memory                                                                                                                                                                                                                                                                                                                                                                |
| <b>Terminals -&gt; SLOT</b>                                             | Open slot for function boards, Intel® SDM standard-compatible                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protocol versions</b>                                                | IPv4, IPv6*8                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Power supply</b>                                                     | Single Phase AC 100-240 V, 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Maximum power consumption</b>                                        | Approx. 3,170 W                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>On-mode power consumption(Operating mode) -&gt; Normal</b>           | Approx. 2,860 W                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>On-mode power consumption(Operating mode) -&gt; Eco</b>              | Approx. 2,250 W                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>On-mode power consumption(Operating mode) -&gt; Quiet</b>            | Approx. 2,010 W                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cabinet materials</b>                                                | Molded plastic                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Operation noise -&gt; Normal *2</b>                                  | 49 dB [NORMAL]                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Operation noise -&gt; Eco *2</b>                                     | 49 dB [ECO]                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Operation noise -&gt; Quiet</b>                                      | 45 dB [QUIET]                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Dimensions (W x H x D)</b>                                           | Approx. 598 x 352 x 780 mm (23 17/32" x 13 27/32" x 30 23/32" ) (Not including protruding parts)                                                                                                                                                                                                                                                                                                                                               |
| <b>Weight *4</b>                                                        | Approx. 66.7 kg (147.0 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Operating environment -&gt; Operating temperature</b>                | 0-45 °C (32-113 °F)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Operating Environment -&gt; Operating humidity (No condensation)</b> | 10-80 % (no condensation)                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Applicable software</b>                                              | Visual Software Suite, Multi Monitoring & Control Software, Projector Network Setup Software, Smart Projector Control for iOS/Android™                                                                                                                                                                                                                                                                                                         |
| <b>Control function via LAN</b>                                         | Crestron Connected™ V2, Crestron XiO Cloud™, Art-Net DMX, AMX® DD, and PjLink™ (Class 2)                                                                                                                                                                                                                                                                                                                                                       |
| <b>Terminals -&gt; MULTI SYNC IN/ 3D - SYNC 1 IN/OUT (dual purpose)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <b>Terminals -&gt; MULTI SYNC OUT/ 3D SYNC 2 OUT (dual purpose)</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Terminals -&gt; DVI-D IN</b>                                      | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Terminals -&gt; DisplayPort™ IN</b>                               | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Terminals -&gt; DIGITAL LINK IN / LAN</b>                         | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gross Dimensions (W x H x D in mm)</b> Approx. 790 x 702 x 957 mm |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gross Weight (Kg)</b>                                             | Approx. 82.0 kg (180.8 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>NFC</b>                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Active 3D</b>                                                     | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SDM</b>                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>EAN</b>                                                           | RQ45KEJ: 5025232988921                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                      | RQ45KD: 8887549897283                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                      | RQ45KE: 8887549897276                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Footnote Description</b>                                          | <ol style="list-style-type: none"> <li>1. Value with ET-D3LES250 Zoom Lens (available CY2026) and a power supply voltage of AC 200–240 V. The value varies depending on the lens.</li> <li>2. When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL].</li> <li>3. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped.</li> <li>4. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped.</li> <li>5. Average light-output value of all shipped products measured at the center of the screen in NORMAL Mode.</li> <li>6. Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE] is set to [DYNAMIC], [DYNAMIC CONTRAST] is set to [2]). Estimated time until light output declines to 50 % varies depending on environment.</li> <li>7. 4K signals are converted to WUXGA (1920 x 1200 pixels) only for the PT-RZ44K.</li> <li>8. Optional AJ-WM50 Series Wireless Module is not compatible with IPv6.</li> <li>9. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards.</li> <li>10. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft).</li> <li>11. Average value. May differ depending on the actual unit.</li> <li>12. Do not install the projector at an altitude of 4,200 m (13,780 ft) or higher above sea level. (Altitude of 4,200 m [13,780 ft] above sea level is the maximum height that the performance of this projector is guaranteed.) Using the projector in a location where the altitude is too high or the ambient temperature is too high may reduce the life of the components or result in malfunctions. Upper limit of the operating environment temperature varies depending on the altitude above sea level. When using the projector at an altitude between 0 m (0 ft) and 1,400 m (4,593 ft) above sea level: 0 °C (32 °F) to 45 °C (113 °F). When using the projector at an altitude between 1,400 m (4,593 ft) and 4,200 m (13,780 ft) above sea level: 0 °C (32 °F) to 40 °C (104 °F). Do not use the projector in a location where the ambient temperature exceeds 40 °C (104 °F) regardless of the altitude when the optional AJ-WM50 Series Wireless Module is attached to the projector.</li> </ol> |