

## Compact and Filterless 21 klm\*<sup>1</sup> 4K+ 3-Chip DLP™ Projector Leverages SOLID SHINE Laser Technology for Awesome Large-Format Pictures and Low TCO



| PT-RQ22K   |  |
|------------|--|
| Brightness | 21,000 lm (Center)* <sup>1</sup> / 20,000 lm* <sup>2</sup> |
| Resolution | 4K+ (5120 x 3200)* <sup>3</sup>                            |
| Contrast   | 20,000:1   |

### Flagship 4K+ Imaging Performance

- Harnesses next-generation 3-Chip DLP™ imaging system with Panasonic SOLID SHINE Laser technology for bright and film-like picture reproduction
- High 21,000 lm\*<sup>1</sup> brightness in a compact, lightweight, and easy-to-handle body
- Quad Pixel Drive produces supremely detailed 4K+ images
- Real Motion Processor 240 Hz frame interpolation achieves fluid reproduction of fast-paced action sequences
- Features 4K BT.2020 color-space emulation and supports HDR standard for accurate handling of next-generation video formats
- Efficient heat-pipe-based cooling system assures stability and long life

### Peak Performance Extended for Low TCO

- Minimal maintenance required for continuous 24/7 projection applications
- Dust-resistant design features hermetically shielded optical unit and cost-saving filterless cooling system
- Digital laser light-source modulation achieves high 20,000:1 dynamic contrast
- Detail Clarity Processor 5+ technology with 4K optimization to enhance detail expression with all video sources
- System Daylight View 3 boosts image sharpness in projection mapping applications and in bright environments

### Flexible Installation and System Integration

- Two slots for optional SLOT NX terminal boards suiting various applications
- Supports 12G SDI Interface Board (ET-MDN12G10)
- Shares optional lenses with Panasonic 3-Chip DLP™ projector family including ultra-short-throw and fisheye lenses
- Compact body and free 360-degree installation (vertical and horizontal)
- 4K DIGITAL LINK supports transmission of uncompressed 4K video signals and control commands through single LAN cable
- Multi-Screen Support System blends and calibrates multiple screens
- Multi-Unit Brightness and Color Control
- Free Geometry Manager Pro software with optional Upgrade Kit (ET-UK20)
- Supports Auto Screen Adjustment Upgrade Kit (ET-CUK10)

## Specifications (Tentative)

|  |  |  |
|--|--|--|
| <b>Model</b>   | PT-RQ22K   |  |
| <b>DLP™ chip</b>   | <b>Panel size</b>  | 22.9 mm (0.9 in) diagonal (16:10 aspect ratio)   |
|  | <b>Display method</b>  | DLP™ chip x 3, DLP™ projection system  |
|  | <b>Pixels</b>  | 49,152,000 (12,288,000 x 4) pixels with Quad Pixel Drive set to ON, 4,096,000 (2560 x 1600) x 3, total of 12,288,000 pixels with Quad Pixel Drive set to OFF |
| <b>Refresh rate</b>  | 240 Hz*1   |  |
| <b>Lens</b>  | Optional (no lens included with this model)  |  |
| <b>Light source</b>  | Laser diodes (Laser class: Class 1) (Class 3R for US models), Light source life: 20,000 hours (NORMAL mode, brightness decreases to approx. 50 %)  |  |
| <b>Screen size (diagonal)</b>                                      | 1.78–25.4 m (70–1,000 in) with 16:10 aspect ratio<br>1.78–15.24 m (70–600 in) with the ET-D75LE8 / ET-D3LET80, 16:10 aspect ratio<br>3.05–15.24 m (120–600 in) with the ET-D75LE95, 16:10 aspect ratio   |  |
| <b>Brightness</b>  | 21,000 lm (Center)*2 / 20,000 lm*3 (HIGH Mode)*4   |  |
| <b>Center-to-corner uniformity*3</b>                               | 90 %   |  |
| <b>Contrast*3</b>  | 20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)  |  |
| <b>Resolution</b>  | 4K+ (5120 x 3200) (Quad Pixel Drive: ON)   |  |
| <b>Optical axis shift*5</b>  | <b>Vertical (from center of screen)</b>  | ±59 % (±56 % with ET-D75LE6 / ET-D3LEW60, +69 % – +84 % with ET-D75LE95) (powered)   |
|  | <b>Horizontal (from center of screen)</b>  | ±29 % (±19 % with ET-D75LE6 / ET-D3LEW60, ±21 % with ET-D75LE95) (powered)   |
| <b>Keystone correction range</b>                                   | Vertical: ±40° (± 22° with ET-D75LE50 / ET-D3LEW50, ±28° with ET-D75LE6 / ET-D3LEW60, +5° with ET-D75LE95),<br>Horizontal: ±15° (0° with ET-D75LE95)   |  |
| <b>Keystone correction range with optional Upgrade Kit ET-UK20</b> | Vertical: ±45° (± 40° with ET-D75LE10 / ET-D3LEW10, ET-D75LE20 / ET-D3LES20, ±22° with ET-D75LE50 / ET-D3LEW50, ±28° with ET-D75LE6 / ET-D3LEW60, +5° with ET-D75LE95)<br>Horizontal: ±40° (±15° with ET-D75LE50 / ET-D3LEW50, ET-D75LE6 / ET-D3LEW60, ET-D75LE10 / ET-D3LEW10, 0° with ET-D75LE95),<br>Up to a total of ±30° during simultaneous horizontal and vertical correction |  |
| <b>Installation</b>  | Horizontal/vertical, free 360-degree installation  |  |
| <b>Terminals</b>   | <b>SDI 1 IN</b>  | 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)                      |
|  | <b>SDI 2 IN</b>  | 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 2), Quad-link 3G-SDI (Link 2)                      |
|  | <b>SDI 3 IN</b>  | BNC x 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link-C), Dual-link 3G-SDI (Link 3), Quad-link HD-SDI (Link 3), Quad-link 3G-SDI (Link 3)                      |
|  | <b>SDI 4 IN</b>  | BNC x 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link-D), Dual-link 3G-SDI (Link 4), Quad-link HD-SDI (Link 4), Quad-link 3G-SDI (Link 4)                      |
|  | <b>MULTI PROJECTOR SYNC IN</b>   | BNC x 1  |
|  | <b>MULTI PROJECTOR SYNC OUT</b>  | BNC x 1  |
|  | <b>SERIAL IN</b>   | D-sub 9-pin (female) x 1 for external control (RS-232C compliant)  |
|  | <b>SERIAL OUT</b>  | D-sub 9-pin (male) x 1 for link control  |
|  | <b>REMOTE 1 IN</b>   | M3 x 1 for wired remote control, link control  |
|  | <b>REMOTE 1 OUT</b>  | M3 x 1 for wired remote control, link control  |
|  | <b>REMOTE 2 IN</b>   | D-sub 9-pin (female) x 1 for external control (parallel)   |
|  | <b>LAN/DIGITAL LINK</b>  | RJ-45 x 1 for network, DIGITAL LINK connection (HDBase™ compliant), 100Base-TX, compatible with Art-Net, PjLink™ (Class 2), Deep Color, HDCP2.2              |
|  | <b>DC OUT</b>  | USB Type A x 2 (for power supply DC 5V total of 2 A)   |
|  | <b>Expansion Slot</b>  | SLOT 1 / SLOT 2 (total two terminals, vacant) for interface boards, SLOT NX compatible   |
|  | <b>Power supply</b>  | AC 200–240 V, 50/60 Hz; AC 100–200 V, 50/60 Hz (brightness is restricted with lower voltage)   |
| <b>Power consumption</b>   | TBD  |  |
| <b>Cabinet materials</b>   | Molded plastic   |  |
| <b>Dimensions (W x H x D)</b>                                      | 598 x 270 x 725 mm (23 1/32" x 10 5/8" x 28 17/32") (not including protruding parts)   |  |
| <b>Weight*6</b>  | Approx. 55 kg (122 lbs)  |  |
| <b>Operation noise*3</b>   | TBD  |  |
| <b>Operating environment</b>                                       | Operating temperature: 0–45 °C (32–113 °F)*7, operating humidity: 10–80 % (no condensation)  |  |
| <b>Applicable software</b>   | Logo Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro (ET-UK20 Upgrade Kit)  |  |

\*1 Refresh-rate varies depending on vertical scanning frequency. \*2 Luminance measured at center of screen (in HIGH Mode). \*3 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. \*4 Operation in HIGH Mode may reduce maintenance timing in comparison to use in NORMAL Mode. \*5 Optical axis shift is not supported on the ET-D75LE50/ET-D3LEW50. \*6 Average value. May differ depending on the actual unit. \*7 Light source brightness may decrease depending on operating temperature. When projector is operating at high temperature or at high altitude, brightness will decrease correspondingly.

## Optional Accessories

- |   |   |   |  |   |  |
|---|---|---|--|---|--|
| <ul style="list-style-type: none"> <li>■ <b>Fisheye Lens</b><br/>ET-D3LEF70</li> <li>■ <b>Fixed-Focus Lens</b><br/>ET-D75LE50 / ET-D3LEW50,<br/>ET-D75LE95</li> </ul> | <ul style="list-style-type: none"> <li>■ <b>Zoom Lens</b><br/>ET-D75LE6 / ET-D3LEW60,<br/>ET-D75LE8 / ET-D3LET80,<br/>ET-D75LE10 / ET-D3LEW10,<br/>ET-D75LE20 / ET-D3LES20,<br/>ET-D75LE30 / ET-D75LE40</li> <li>■ <b>Stepping Motor Kit</b><br/>ET-D75MKS10</li> </ul> | <ul style="list-style-type: none"> <li>■ <b>Mount Bracket</b><br/>ET-PKD520H/S/B</li> <li>■ <b>Frame</b><br/>ET-PFD510</li> </ul> | <ul style="list-style-type: none"> <li>■ <b>Interface Board for 12G-SDI Input (Input x 2, Output x 2)</b><br/>ET-MDN12G10</li> <li>■ <b>Interface Board for HDMI (HDCP2.2) Input (Input x 2)</b><br/>ET-MDNHM10</li> <li>■ <b>Interface Board for DVI Input (Input x 2)</b><br/>ET-MDNV10</li> <li>■ <b>Geometry Manager Pro Software Upgrade Kit</b><br/>ET-UK20</li> </ul> | <ul style="list-style-type: none"> <li>■ <b>Interface Board for 3G-SDI Input (Input x 4)</b><br/>TY-TBN03G</li> <li>■ <b>Auto Screen Adjustment Upgrade Kit</b><br/>ET-CUK10</li> </ul> | <ul style="list-style-type: none"> <li>■ <b>Early Warning Software</b><br/>ET-SWA100 Series</li> </ul> |
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