Panasonic
BUSINESS

Compact and Filterless 21 klm*¹ 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)*¹ / 20,000 lm*²
Resolution	4K⁺ (5120 x 3200 pixels)*³
Contrast	20,000:1 (Full On/Full Off, Dynamic Mode 3)
Cabinet Color	Black
Lens	Without lens

Flagship 4K⁺ Imaging Performance

- Harnesses 3-Chip DLP™ imaging system with Panasonic SOLID SHINE Laser technology for bright and film-like picture reproduction

- 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

- New noise-reduction function preserves sharpness in bright areas of the image while significantly reducing noise in dark areas, also effectively enhancing reproduction quality of HDR video

- Detail Clarity Processor 5⁺ technology with 4K optimization to enhance detail expression with all video sources

Peak Performance Extended for Low TCO

- High 21,000 lm*¹ brightness in a compact, lightweight, and easy-to-handle body

- Minimal maintenance required for continuous 24/7 projection applications

- Dust-resistant design features hermetically shielded optical unit and efficient heat-pipe-based cooling system to assure cost-saving operation

- Digital laser-light-source modulation achieves high 20,000:1 dynamic contrast

Flexible Installation and System Integration

- Two slots for optional SLOT NX terminal boards suiting various applications

- Supports 12G-SDI interface board enabling 4K video signal and control command transmission through a single coaxial cable (Note: Optional ET-MDN12G10 Interface Board required for 12G-SDI input)

- 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 a 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/ET-CUK10P)

Specifications (Tentative)

Model	PT-RQ22K
DLP™ chip — Panel size	22.9 mm (0.9 in) diagonal (16:10 aspect ratio)
DLP™ chip — Display method	DLP™ chip x 3, DLP™ projection system
Refresh rate	240 Hz*¹
Lens	Optional (no lens included with this model)
Light source	Laser diodes (Laser class: Class 1) (Class 3R for US models), Light source life: 20,000 hours (NORMAL mode, brightness decreases to approx. 50 %)
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-D75LE8 / ET-D3LET80, 16:10 aspect ratio 3.05–15.24 m (120–600 in) with the ET-D75LE95, 16:10 aspect ratio
Brightness	21,000 lm (Center)*² / 20,000 lm*³
Center-to-corner uniformity*³	90 %
Contrast*³	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)
Resolution	4K⁺ (5120 x 3200 pixels) (Quad Pixel Drive: ON)
Optical axis shift*⁴ — Vertical (from center of screen)	±59 % (±56 % with ET-D75LE6 / ET-D3LEW60, +69 % – +84 % with ET-D75LE95) (powered)
Optical axis shift*⁴ — Horizontal (from center of screen)	±29 % (±19 % with ET-D75LE6 / ET-D3LEW60, ±21 % with ET-D75LE95) (powered)
Keystone correction range	Vertical: ±40° (± 22° with ET-D75LE50 / ET-D3LEW50, ±28° with ET-D75LE6 / ET-D3LEW60, +5° with ET-D75LE95), Horizontal: ±15° (0° with ET-D75LE95)
Keystone correction range with optional ET-UK20 Upgrade Kit	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) Horizontal: ±40° (±15° with ET-D75LE50 / ET-D3LEW50, ET-D75LE6 / ET-D3LEW60, ET-D75LE10 / ET-D3LEW10, 0° with ET-D75LE95), Up to a total of ±30° during simultaneous horizontal and vertical correction
Installation	Horizontal/vertical, free 360-degree installation
Terminals — SDI 1 IN	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)
Terminals — SDI 2 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 2), Quad-link 3G-SDI (Link 2)
Terminals — SDI 3 IN	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 3), Quad-link 3G-SDI (Link 3)
Terminals — 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)
Terminals — MULTI PROJECTOR SYNC IN	BNC x 1
Terminals — MULTI PROJECTOR SYNC OUT	BNC x 1
Terminals — SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
Terminals — SERIAL OUT	D-sub 9-pin (male) x 1 for link control
Terminals — REMOTE 1 IN	M3 x 1 for wired remote control, link control
Terminals — REMOTE 1 OUT	M3 x 1 for wired remote control, link control
Terminals — REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)
Terminals — LAN/DIGITAL LINK	RJ-45 x 1 for network, DIGITAL LINK connection (HDBaseT™ compliant), 100Base-TX, compatible with Art-Net, PJLink™ (Class 2), Deep Color, HDCP 2.2
Terminals — DC OUT	USB Type A x 2 (for power supply DC 5 V total of 2 A)
Terminals — Expansion Slot	SLOT 1 / SLOT 2 (total two terminals, vacant) for interface boards, SLOT NX compatible
Power supply	AC 200–240 V, 50/60 Hz; AC 100–200 V, 50/60 Hz (brightness is restricted with lower voltage)
Power consumption	TBD
Cabinet materials	Molded plastic
Dimensions (W x H x D)	598 x 270 x 725 mm (23 ¹⁷/₃₂″ x 10 ⁵/₈″ x 28 ¹⁷/₃₂″) (not including protruding parts)
Weight*⁵	Approx. 55 kg (122 lbs)
Operation noise*³	TBD
Operating environment	Operating temperature: 0–45 °C (32–113 °F)*⁶, operating humidity: 10–80 % (no condensation)
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro, Smart Projector Control for iOS/Android™

*1 Refresh-rate varies depending on vertical scanning frequency. *2 Luminance measured at center of screen. *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 Lens shift is not supported on the ET-D75LE50/ET-D3LEW50. *5 Average value. May differ depending on the actual unit. *6 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

- **Fisheye Lens** ET-D3LEF70
- **Fixed-Focus Lens** ET-D75LE50 / ET-D3LEW50, ET-D75LE95
- **Zoom Lens** ET-D75LE6 / ET-D3LEW60, ET-D75LE8 / ET-D3LET80, ET-D75LE10 / ET-D3LEW10, ET-D75LE20 / ET-D3LES20, ET-D75LE30 / ET-D75LE40
- **Stepping Motor Kit** ET-D75MKS10

- **Mount Bracket** ET-PKD520H/S/B*
  * Use ET-PKD520H Ceiling Mount Bracket (for high ceiling) and ET-PKD520S Ceiling Mount Bracket (for low ceiling) in combination with ET-PKD520B Projector Mount Bracket. ET-PKD520B Projector Mount Bracket can optionally be used with an existing ET-PKD510H/ PKD510S Projector Mount Bracket.
- **Frame** ET-PFD510

- **Interface Board for 12G-SDI Input** (Input x 2, Input / Output x 2) ET-MDN12G10
- **Interface Board for HDMI** (HDCP2.2) Input (Input x 2) ET-MDNHM10
- **Interface Board for DVI Input** (Input x 2) ET-MDNDV10
- **Interface Board for 3G-SDI Input** (Input x 2 / Output x 2) TY-TBN03G

- **Geometry Manager Pro Software Upgrade Kit** ET-UK20
- **Auto Screen Adjustment Upgrade Kit** ET-CUK10 / ET-CUK10P
- **Early Warning Software** ET-SWA100 Series*
  Note: Part number suffix may differ depending on the license type.
  * Multi Monitoring & Control Software Ver. 2.0 or later is required. Please download from the following website: https://panasonic.net/cns/projector/download/application/

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All information included here is valid as of June 2018.

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