

**Explore New Possibilities with the World's  
Smallest and Lightest 20,000-lumen-class 4K+ Projector\*1**



PT-RQ22K	
Brightness	20,000 lm*2 / 21,000 lm (Center)*3
Resolution	4K+ (5120 x 3200 pixels)*4
Contrast	20,000:1 (Full On/Full Off, Dynamic Mode 3)

**Innovating Class-beating  
Picture Quality in Permanent or  
Staging Installations**

- 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

**Over-Engineered for Consistently Bright,  
Dependable, and Efficient Projection**

- High 21,000 lm (Center)\*3 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 delivering 20,000 hours\*5 of maintenance-free operation
- Digital laser-light-source modulation achieves high 20,000:1 dynamic contrast

**Projector Management and  
Control Flexibility**

- 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)

\*1 As of August, 2018. Among 20,000-lumen-class projectors with 4K resolution or higher. \*2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. \*3 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. \*4 Quad Pixel Drive: ON. \*5 Around this time, light output will have decreased by approximately 50%. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast (3), under conditions with 35 °C (95 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m<sup>3</sup> of particulate matter. Panasonic recommends cleaning or checkup at point of purchase after every 20,000-hour period (approximately). Estimated maintenance time varies depending on environment.

## Specifications

<b>Model</b>	PT-RQ22K	
<b>Projector type</b>	3-Chip DLP™ projector	
<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
<b>Refresh rate</b>	240 Hz*1	
<b>Light source</b>	Laser Diode	
<b>Light output</b>	20,000 lm**2 / 21,000 lm (Center)**3	
<b>Time until light output declines to 50 %*4</b>	20,000 hours (NORMAL) / 24,000 hours (ECO)	
<b>Resolution</b>	4K* (5120 x 3200 pixels) (Quad Pixel Drive: ON)	
<b>Contrast*2</b>	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)	
<b>Screen size (diagonal)</b>	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	
<b>Center-to-corner uniformity*2</b>	90 %	
<b>Lens</b>	Optional (no lens included with this model)	
<b>Lens 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-D3LEW50, ±28° with ET-D75LE6 / ET-D3LEW60, +5° with ET-D75LE95), Horizontal: ±15° (0° with ET-D75LE95)	
<b>Keystone correction range with optional ET-UK20 Upgrade Kit</b>	Vertical: ±45° (±40° with ET-D75LE10 / ET-D3LEW10, ET-D75LE20 / ET-D3LES20, ±22° with ET-D3LEW50, ±28° with ET-D75LE6 / ET-D3LEW60, +5° with ET-D75LE95) Horizontal: ±40° (±15° with ET-D3LEW50, ET-D75LE6 / ET-D3LEW60, 0° with ET-D75LE95), When (VERTICAL KEYSTONE) and (HORIZONTAL KEYSTONE) are used simultaneously, correction cannot be made exceeding total of 55°.	
<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 A), Dual-link 3G-SDI (Link 1), 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 B), Dual-link 3G-SDI (Link 2), 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 (RS-232C compliant)
	<b>REMOTE 1 IN</b>	M3 stereo mini-jack x 1 for wired remote control
	<b>REMOTE 1 OUT</b>	M3 stereo mini-jack x 1 for link control
	<b>REMOTE 2 IN</b>	D-sub 9-pin (female) x 1 for external control (parallel)
	<b>DIGITAL LINK/LAN</b>	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
	<b>DC OUT</b>	USB Type A x 2 (for power supply DC 5 V 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 V–240 V, 8.5 A, 50/60 Hz (Light output will decrease to approximately 50 % when using the projector with AC 100 V to AC 120 V (9.8 A))	
<b>Power consumption</b>	1,650 W (0.3 W with Standby Mode set to ECO*6, 4 W with Standby Mode set to NORMAL)	
<b>Cabinet materials</b>	Molded plastic	
<b>Operation noise*2</b>	46 dB	
<b>Dimensions (W x H x D)</b>	600 mm x 307 mm*7 x 745 mm (23 5/8" x 12 3/32" x 29 11/32") (including protruding parts); 598 mm x 270 mm*8 x 725 mm (23 17/32" x 10 5/8" x 28 17/32") (not including protruding parts)	
<b>Weight*9</b>	54.0 kg (119 lbs)	
<b>Operating environment</b>	Operating temperature: 0–45 °C (32–113 °F)*10, operating humidity: 10–80 % (no condensation)	
<b>Applicable software</b>	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control for iOS/Android*	

\*1 Refresh rate varies depending on scanning frequency. \*2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. \*3 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. \*4 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [3], under conditions with 35 °C (95 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m<sup>3</sup> of particulate matter. Estimated time until light output declines to 50 % varies depending on environment. \*5 Lens shift is not supported on the ET-D3LEW50. \*6 When Standby Mode is set to ECO, network functions such as power over LAN will not operate. Additionally, only certain commands can be received for external control using the serial terminal. \*7 With legs at shortest position. \*8 Excluding legs. \*9 Average value. May differ depending on the actual unit. \*10 Operating temperature is 0–40 °C (32–104 °F) when used in locations from 1,400 m to 4,200 m (4,593 ft to 13,779 ft) above sea level. When operating in ECO or NORMAL mode at elevations between 0–2,700 m (0–8,858 ft) in ambient temperatures exceeding 40 °C (104 °F), or at elevations between 2,700–4,200 m (8,858–13,779 ft) in ambient temperatures exceeding 25 °C (77 °F), light output may be reduced to protect the projector.

## Optional Accessories

- **Fisheye Lens** ET-D3LEF70\*  
\* This lens is equipped with Auto Lens Identification Function.
- **Fixed-focus Lens** ET-D3LEW50\* / ET-D75LE95  
\* This lens is equipped with Auto Lens Identification Function.
- **Zoom Lens** ET-D3LEW60\* / ET-D3LEW10\* / ET-D3LES20\* / ET-D3LET30\* / ET-D3LET40\* / ET-D3LET80\* / ET-D75LE6 / ET-D75LE10 / ET-D75LE20 / ET-D75LE30 / ET-D75LE40 / ET-D75LE8  
\* This lens is equipped with Auto Lens Identification Function and Stepping Motor.
- **Stepping Motor Kit** ET-D75MKS10  
Note: Calibration is required each time the lens is mounted.
- **Ceiling Mount Bracket for High Ceilings** ET-PKD520H
- **Ceiling Mount Bracket for Low Ceilings** ET-PKD520S
- **Projector Mount Bracket** ET-PKD520B  
Note: 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  
Note: This frame cannot be used when the separately sold D75LE95 Fixed-Focus Lens is attached to the projector. Please contact your sales representative for information on portrait orientation.
- **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-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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