

# Panasonic

## BUSINESS

PT-RQ50K  
3-Chip DLP™ Projector



Revolutionizing the Visual Experience with 50,000 lm\*<sup>1</sup> Brightness, Native 4K Resolution, and Vivid Color

### ■ Main Features

## 01 | Breathtaking 50,000 lm\*<sup>1</sup>, Native 4K Color-Rich Images

Overwhelm with a Native 4K experience delivering 50,000 lm\*<sup>1</sup> 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 Ver. 2.0\*<sup>2</sup> with NFC\*<sup>3</sup>; 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.



\* Lens sold separately.

	PT-RQ50K
Light Output	50,000 lm* <sup>1</sup> / 51,000 lm (Center)* <sup>4</sup>
Resolution	Native 4K (4096 x 2160 pixels)

\*<sup>1</sup> Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. \*<sup>2</sup> For more information on Smart Projector Control app for Android™ and iOS devices: [www.panasonic.net/cns/projector/products/smartprojectorcontrol/](http://www.panasonic.net/cns/projector/products/smartprojectorcontrol/) \*<sup>3</sup> Availability may vary by country or region. \*<sup>4</sup> Average light-output value of all shipped products measured at center of screen in NORMAL Mode.

## Expanded Color-Gamut Perfects the 50,000 lm<sup>-1</sup> 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 current PT-RQ32K flagship 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. New finless 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 module for imperceptible brightness loss, reinforcing reliability when image projection must be maintained.

## Other Features

- Upgrade kits for Geometry Manager Pro PC software are preactivated and built into the projector
- Smart Projector Control Ver. 2.0\*4 adds NFC Function\*5 for settings read/write\*6 in Standby and Auto Focus with smartphone camera\*7
- Information Monitor complements physical controls with text-based LCD
- Power supplies (US/JP only) support 100–120 V for setup and 200–240 V for full brightness projection
- New lens lineup eliminates throw-ratio gaps; includes Smart AFO and lens ID
- Backup Input switches to backup signal if primary signal is interrupted\*8

\*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 In comparison to the PT-RQ32K. \*3 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast [3], temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m<sup>3</sup> of airborne particulate matter. Estimated time until brightness decreases to 50 % will vary depending on environment and usage conditions. Parts other than the light source may require replacement before 20,000 hours, and checkup is recommended around this time. \*4 For more information on Smart Projector Control app for Android™ and iOS devices: [www.panasonic.net/cns/projector/products/smartprojector/](http://www.panasonic.net/cns/projector/products/smartprojector/) \*5 Availability may vary by country or region. \*6 Write function not supported on iOS devices. \*7 Some mobile devices do not support Auto Focus via built-in camera. \*8 Combination of primary and backup input terminals is fixed, and video signal to primary and backup terminals must be the same.

## Specifications

Model	PT-RQ50K	
Projector type	3-Chip DLP™ projector	
DLP™ chip	Panel size	35.1 mm (1.38 in) diagonal (17:9 aspect ratio)
	Display method	DLP™ chip x 3, DLP™ projection system
	Number of pixels	8,847,360 (4096 x 2160 pixels) x 3
Light source	Laser diodes (Blue LD, Red LD)	
Light output	50,000 lm <sup>-1</sup> / 51,000 lm (Center)*2	
Time until light output declines to 50 %*3	20,000 hours (NORMAL)	
Resolution	Native 4K (4096 x 2160 pixels)	
Contrast ratio*1	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)	
Screen size [diagonal]	2.54–38.1 m (100–1,500 in) with new optional lens for PT-RQ50K, 17:9 aspect ratio	
Center-to-corner zone ratio*1	90 %	
Lens	New optional lenses for PT-RQ50K (no lens included with this model)	
Lens shift	Vertical (from center of screen)	±45 % (±25 % with ET-D3QT600, ±30 % with ET-D3QT700/ET-D3QT800, ±40 % with ET-D3QW300) (powered)
	Horizontal (from center of screen)	±16 % (±8 % with ET-D3QT600, ±10 % with ET-D3QT700/ET-D3QT800, ±14 % with ET-D3QW300) (powered)
Keystone correction range	Vertical: ±40° (±28° with ET-D3QW300), Horizontal: ±40° (±15° with ET-D3QW300)	
Terminals	MULTI PROJECTOR SYNC IN	BNC x 1
	MULTI PROJECTOR SYNC OUT	BNC x 1
	SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
	SERIAL OUT	D-sub 9-pin (male) x 1 for link control (RS-232C compliant)
	REMOTE 1 IN	M3 stereo mini-jack x 1 for wired remote control
	REMOTE 1 OUT	M3 stereo mini-jack x 1 for link control
	REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)
	DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connections (HDBaseT™ compliant), PjLink™ (Class 2) compatible, 100Base-TX, Art-Net compatible, HDCP 2.2 compatible, Deep Color compatible
	LAN	RJ-45 x 1 for network connection, PjLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible
	DC OUT	USB connector (Type A) x 2 for power supply only (DC 5 V, total of 2 A)
	USB	USB connector (Type A) x 1 for optional Wireless Module (AJ-WM50 Series) / USB Memory Stick
	Expansion Slot 1	Interface Board for 12G-SDI (ET-MDN12G10) supplied
	Expansion Slot 2	Optional interface boards, SLOT NX compatible
Power supply	AC 200–240 V, 50/60 Hz; AC 100–120 V, 50/60 Hz (Brightness restricted to one fifth with voltage of 100–120 V)	
Power consumption	4,100 W (AC 100–120 V: 1,100 W, Standby Mode: 6 W)	
Operation noise*1	52 dB	
Dimensions (W x H x D)	720 x 445 x 1,070 mm (28 11/32" x 17 17/32" x 42 1/8") (excluding handle, adjuster feet, and other protruding parts)	
Weight*4	Approx. 126 kg (278 lbs) (without lens)	
Operating environment	Operating temperature: 0–45 °C (32–113 °F)*5*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 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 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. \*3 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. \*4 Average value. May differ depending on the actual unit. \*5 The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) if the projector is used at an altitude between 1,400 m (4,593 ft) and 4,200 m (13,780 ft). \*6 When optional AJ-WM50 wireless module is attached, operating temperature range becomes 0–40 °C (32–104 °F). \*7 When using the projector at an altitude lower than 2,700 m (8,858 ft) above sea level, and the operating environment temperature becomes 30 °C (86 °F) or higher, the light output may be reduced to protect the projector. When using the projector at an altitude between 2,700 m (8,858 ft) and 4,200 m (13,780 ft), and the operating environment temperature becomes 25 °C (77 °F) or higher, the light output may be reduced to protect the projector.

## Optional Accessories

- **Zoom Lens**  
ET-D3QW300 (1.11–1.70:1) / ET-D3QS400 (1.43–2.09:1) / ET-D3QT500 (2.00–3.41:1) / ET-D3QT600 (2.69–3.88:1) / ET-D3QT700 (3.89–5.47:1) / ET-D3QT800 (4.97–7.76:1)
- **Interface Board for 12G-SDI Input (Input x 2, Input/Output x 2)**  
ET-MDN12G10
- **Interface Board for HDMI® (HDCP 2.2) Input (Input x 2)**  
ET-MDNHM10
- **Interface Board for DVI-D (Input x 2)**  
ET-MDNDV10
- **Interface Board for DisplayPort™ (Input x 2)**  
ET-MDNDP10
- **Wireless Module**  
AJ-WM50 Series  
Note: Product availability may vary by country or region.
- **DIGITAL LINK Switcher**  
ET-YFB200G Note: ET-YFB200G is not compatible with 4K signals.
- **Digital Interface Box**  
ET-YFB100G Note: ET-YFB100G is not compatible with 4K signals.

- **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: [www.panasonic.net/cns/projector/download/applications/](http://www.panasonic.net/cns/projector/download/applications/)
- **NFC Upgrade Kit**  
ET-NUK10  
Note: Product availability may vary by country or region.

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YouTube – [www.youtube.com/user/PanasonicProjector](https://www.youtube.com/user/PanasonicProjector)

All information included here is valid as of March 2021.

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