Panasonic
BUSINESS

PT-RQ50K

3-Chip DLP™ Projector

Revolutionizing the Visual Experience with 50,000 lm*1 Brightness, Native 4K Resolution, and Vivid Color

■ Main Features

01 | Breathtaking 50,000 lm*1, Native 4K Color-Rich Images

Overwhelm with a Native 4K experience delivering 50,000 lm*1 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*2 with NFC*3; 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*1 / 51,000 lm (Center)*4
Resolution	Native 4K (4096 x 2160 pixels)

**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 For more information on Smart Projector Control app for Android™ and iOS devices: www.panasonic.net/cns/projector/products/smartpjcontrol/ *3 Availability may vary by country or region. *4 Average light-output value of all shipped products measured at center of screen in NORMAL Mode.*

Expanded Color-Gamut Perfects the 50,000 lm*1 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*4
- **Smart Projector Control** Ver. 2.0*5 adds NFC Function*6 for settings read/write*7 in Standby and Auto Focus with smartphone camera*8
- **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*9

**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/m³ 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 Except masking function. *5 For more information on Smart Projector Control app for Android™ and iOS devices: www.panasonic.net/cns/projector/products/smartpjcontrol/ *6 Availability may vary by country or region. *7 Write function not supported on iOS devices. *8 Some mobile devices do not support Auto Focus via built-in camera. *9 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*1 / 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*7, operating humidity: 10–80 % (no condensation)
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro, Smart Projector Control for iOS/Android™

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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/application/*
- **NFC Upgrade Kit**
  ET-NUK10
  Note: Product availability may vary by country or region.

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All information included here is valid as of December 2019.

RQ50K_G1 Printed in Japan.