Panasonic CONNECT

PT-RQ25K Series

3-Chip DLP™ Projectors

PT-RQ25K / PT-RZ24K
PT-RQ18K / PT-RZ17K

Deliver More for Less with the World's Smallest and Lightest 20,000 lm[1] 3-Chip DLP™ 4K[2] Projector

Note: Based on publicly available dimensions and weight for DLP™ laser projectors with 16,000 lm brightness and above as of October 2022. Optional 3-Chip DLP™ lenses[3] sold separately.

Main Features

01 | Compact Form-Factor Streamlines Workflow

RQ25K Series is 40 % smaller and 35 % lighter[8] than the RQ22K for easy handling and workflow. Intel® SDM-ready slot expands connectivity with proprietary or third-party[9] function boards. Smart Projector Control[10] app, NFC function[11], Remote Preview LITE, and preactivated upgrade kits for Geo Pro[12] simplify installation.

02 | Create an Engaging Visual Experience

Quad Pixel Drive creates smooth 4K[2] images while newly improved Dynamic Contrast delivers higher white brightness and deep blacks during high-contrast scenes. Gradation Smoother reduces color banding, while Panasonic's exclusive black-level adjustment evolves again to support completely seamless edge-blending.

03 | Maintenance-free for Peace of Mind

Hermetically sealed optical block and high-efficiency liquid-cooling system enable maintenance-free projection for 20,000 hours[13]. Multi-Laser Drive Engine and Backup Input[14] enhance reliability for failure-proof projection. Newly refined power supply supports projection at up to 15,000 lm[15] on AC 100–120 V power.

PT-RQ25K Series

	PT-RQ25K	PT-RZ24K	PT-RQ18K	PT-RZ17K
Light Output	20,000 lm[16] / 21,000 lm[17]		16,000 lm[16] / 16,800 lm[17]	
Resolution	4K (3840 x 2400[18] pixels)	WUXGA (1920 x 1200 pixels)	4K (3840 x 2400[18] pixels)	WUXGA (1920 x 1200 pixels)

1 Please refer to specifications table for brightness value of individual models. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 2 PT-RQ25K/RQ18K only with Quad Pixel Drive [ON]. 3 Excluding lenses for PT-RQ50K. 4 PT-RQ25K/RQ18K only with Quad Pixel Drive [ON]. 5 PT-RQ25K/RQ18K only. 6 Only when optional TY-SB01DL DIGITAL LINK Terminal Board is loaded. 7 PT-RZ24K/RZ17K only. 8 Estimated values by cabinet volume and weight (excluding lens) according to Panasonic research. 9 Intel® SDM-specified third-party function boards sold separately. Panasonic cannot guarantee operation of third-party devices. 10 Check device compatibility at the App Store or the Google Play store. 11 Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate NFC function. 12 Geometry Manager Pro software for Windows® and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software. 13 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. Panasonic recommends checkup at point of purchase after about 20,000 hours. Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. Estimated maintenance time varies depending on environment. 14 Terminal assignment is fixed. Input signals to primary and backup inputs must be identical. 15 Maximum light output is limited to approximately 15,000 lm. Maximum value of light output is further decreased in the following cases: when a function board is installed in the slot, when the light source is deteriorating from use, or when there is dust on the optical parts. 16 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 17 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. 18 Maximum physical resolution with Quad Pixel Drive [ON].

Light and Compact 3-Chip DLP™ Performance

RQ25K Series is the world's smallest and lightest 3-Chip DLP™ 4K projector in its class[1]. Transport and install with a team of two and explore immersive projection possibilities in areas with limited installation space. Miniaturized optical engine and power supply, high-efficiency cooling system, and revised optical unit materials deliver a game-changing design that brings elite 3-Chip DLP™ performance to events of any scale.

Import and Save Your Own Test Patterns

In addition to 10 built-in test patterns, you can import and save up to three of your own custom test-patterns[2] to the projector via USB memory device or network. Save your go-to test patterns or use your client's content to calibrate the projector before the video source is connected, saving time during installation at the event site.

Wide Scalability with Intel® SDM-ready Slot

Intel® SDM-compatible slot integrates optional proprietary or third-party[3] function boards. These function boards reduce installation complexity and make it easy to adapt, scale, and expand connectivity to suit different applications now and in the future. RQ25K Series works with our DIGITAL LINK Terminal Board (TY-SB01DL), 12G-SDI Terminal Board (TY-SB01QS), and Wireless Presentation System PressIT Receiver Board (TY-SB01WP), as well as third-party[3] PC boards, terminal boards, and AVoIP boards.

Supports AC 100–120 V and AC 200–240 V Power[4]

Deliver full brightness on AC 200–240 V and up to 15,000 lm[5] on AC 100–120 V. Users in regions with AC 100–120 V can connect to the consumer grid and start setting up and calibrating the projector without delay as high-voltage power is rolled out on site. Avoid wasted time on unforeseen holdups—this feature keeps your team on schedule as event infrastructure comes together around you.

Other Features

- Supports Art-Net DMX, PJLink™, Crestron Connected® V2, and Crestron® XiO Cloud
- Compatible with IPv6[6]
- DICOM Simulation Mode
- Multi-screen Support System
- Multi-Unit Brightness and Color Control
- Waveform Monitor function
- Quick Start and Quick Off
- Power Management System

1 Based on publicly available dimensions and weight for DLP™ laser projectors with 16,000 lm brightness and above as of October 2022. 2 Supports PNG (1/8/16/24/32/48/64-bit, non-transparent, alpha blending disabled) and BMP (1/8/24-bit) formats with maximum resolution of 3840 x 2400 dots (PT-RQ25K/RQ18K) or 1920 x 1200 dots (PT-RZ24K/RZ17K). 3 Intel® SDM-specified third-party function boards sold separately. Panasonic cannot guarantee operation of third-party devices. 4 Japan and the Americas only. 5 Maximum light output is limited to approximately 15,000 lm. Maximum value of light output is further decreased in the following cases: when a function board is installed in the slot, when the light source is deteriorating from use, or when there is dust on the optical parts. 6 Optional AJ-WM50 Series Wireless Module is not compatible with IPv6.

Specifications

Model		PT-RQ25K	PT-RZ24K	PT-RQ18K	PT-RZ17K
Projector type		3-Chip DLP™ projector			
DLP™ chip	Panel size	20.3 mm (0.8 in) diagonal (16:10 aspect ratio)			
	Number of pixels	2,304,000 (1920 x 1200 pixels) x 3			
Light source		Laser diode			
Light output[1, 2]		20,000 lm / 21,000 lm (Center)[3]		16,000 lm / 16,800 lm (Center)[3]	
Time until light output declines to 50 %[4]		20,000 hours (NORMAL/QUIET), 24,000 hours (ECO)			
Resolution		4K (3840 x 2400 pixels) (Quad Pixel Drive: ON)	WUXGA (1920 x 1200 pixels)	4K (3840 x 2400 pixels) (Quad Pixel Drive: ON)	WUXGA (1920 x 1200 pixels)
Contrast ratio[2]		25,000:1 (Full On/Full Off, Dynamic Contrast [3])			
Screen size (diagonal)		1.78–25.40 m (70–1000 in), 1.78–15.24 m (70–600 in) with ET-D75LE8/ ET-D3LET80, 3.05–15.24 m (120–600 in) with ET-D75LE95, 5.08–15.24 m (200–600 in) with ET-D3LEU100/D3LEW200			
Center-to-corner zone ratio[2]		90 %			
Lens		Optional (no lens included with this model)			
Lens shift (From the origin point of the lens mounter)	Vertical	±66 % (±52 % with ET-D75LE6/ET-D3LEW60, +71 % / +93 % with ET-D75LE95, ±66 % with ET-D3LEU100, ±57 % with ET-D3LEW200) (powered)			
	Horizontal	±24 % (±18 % with ET-D75LE6/ET-D3LEW60, ±14 % with ET-D75LE95, -25 % / +30 % with ET-D3LEU100, ±18 % with ET-D3LEW200) (powered)			
Keystone correction range		Vertical: ±45 ° (± 40 ° with ET-D75LE10/ET-D3LEW10/ET-D75LE20/ET-D3LES20, ±28 ° with ET-D75LE6/ET-D3LEW60, ±22 ° with ET-D3LEW50, ±15 ° with ET-D3LEW200, ±8 ° with ET-D3LEU100, +5 ° with ET-D75LE95), Horizontal: ±40 ° (±15 ° with ET-D3LEW50/ET-D75LE6/ET-D3LEW60, ±5 ° with ET-D3LEU100/ET-D3LEW200, 0 ° with ET-D75LE95) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.			
Terminals	HDMI IN	HDMI x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input[5])			
	DisplayPort™	DisplayPort™ x 1 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input[5])			
	MULTI PROJECTOR SYNC IN	BNC x 1	—	BNC x 1	—
	MULTI PROJECTOR SYNC OUT	BNC x 1	—	BNC x 1	—
	MULTI PROJECTOR SYNC IN/ 3D SYNC 1 IN/OUT (dual purpose)	—	BNC x 1	—	BNC x 1
	MULTI PROJECTOR SYNC OUT/ 3D SYNC 2 OUT (dual purpose)	—	BNC x 1	—	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 (for wired remote control)			
	REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)			
	LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible			
	USB	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module/USB memory			
	DC OUT	USB Type A x 1 (for power supply, DC 5 V, 2 A)			
	Expansion slot	Open slot for for function boards, Intel® SDM compatible			
Power supply		AC 100 V–120 V / AC 200 V–240 V, 50 Hz/60 Hz (The maximum value of light output is limited to 15,000 lm or less when using the projector with AC 100 V to AC 120 V. Other limitations apply[6].)			
Power consumption[7]	Maximum power consumption	AC 200 V–AC 240 V : 1,490 W (1,520 VA) AC 100 V–AC 120 V : 1,080 W (1,090 VA)	AC 200 V–AC 240 V : 1,470 W (1,520 VA) AC 100 V–AC 120 V : 1,060 W (1,090 VA)	AC 200 V–AC 240 V : 1,190 W (1,220 VA) AC 100 V–AC 120 V : 1,080 W (1,090 VA)	AC 200 V–AC 240 V : 1,170 W (1,220 VA) AC 100 V–AC 120 V : 1,060 W (1,090 VA)
	On-mode power consumption (Operating mode) [NORMAL]	1,330 W	1,310 W	1,030 W	1,010 W
	[ECO]	1,040 W	1,020 W	820 W	800 W
	[QUIET]	1,030 W	1,010 W	810 W	790 W
Operation noise[2]		46 dB (NORMAL/ECO), 43 dB (QUIET)		43 dB (NORMAL/ECO), 40 dB (QUIET)	
Dimensions (W x H x D)		Approx. 550 x 220 x 570 mm (21 5/8″ x 8 11/16″ x 22 7/16″) (not including protruding parts)			
Weight[8]		Approx. 35 kg (77.2 lbs)			
Operating environment		Operating temperature: 0–45 °C (32–113 °F[9]), operating humidity: 10–80 % (no condensation)			
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Projector Network Setup Software, Early Warning Software, Geometry Manager Pro, Smart Projector Control for iOS/Android™			

1 This is the value when the Zoom Lens (Model No.: ET-D3LES20) is used with power supply voltage of AC 200 V to AC 240 V. The value varies depending on the lens. 2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. 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/m³ of particulate matter. Estimated time until light output decreases to 50 % will vary depending on environment. 5 4K signals are converted to WUXGA (1920 x 1200 pixels) only for the PT-RZ24K and PT-RZ17K. 6 Maximum value of light output is further decreased in the following cases: when a function board is installed in the slot, when the light source is deteriorating from use, or when there is dust on the optical parts. 7 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). 8 Average value. May differ depending on the actual unit. 9 When optional AJ-WM50 Series wireless module is attached, operating temperature range becomes 0–40 °C (32–104 °F). 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).

Optional Accessories

- **Fisheye Len** ET-D3LEF70
  Note: Equipped with Auto Lens Identification Function.
- **Fixed-Focus Lens** ET-D75LE95 / ET-D3LEU100[1] / ET-D3LEW50[1]
  1 Equipped with Auto Lens Identification Function.
- **Zoom Lens**
  ET-D3LEW200[1] / ET-D3LEW300[2] / ET-D3LEW60[1] / ET-D75LE6 / ET-D3LEW10[1] / ET-D75LE10 / ET-D3LES20[1] / ET-D75LE20 / ET-D3LET30[1] / ET-D75LE30 / ET-D3LET40[1] / ET-D75LE40 / ET-D3LET80[1] / ET-D75LE8
  1 Equipped with Auto Lens Identification Function and Stepping Motor. 2 ET-D3LEW300 will be available from CY2023 2Q.
- **Ceiling Mount Bracket**
  ET-PKD520H (for high ceilings) / ET-PKD520S (for low ceilings)
  Note: ET-PKD520H/PKD520S is used in combination with ET-PKD521B (sold separately).
- **Attachment for Ceiling Mount Bracket**
  ET-PKD521B
- **Lens Fixed Attachment**
  ET-PLF10 (For ET-D3LEF70) / ET-PLF20 (For ET-D3LEU100 / LEW200)
  Note: This attachment may be required in some installation environments.
- **Stepping Motor Kit** ET-D75MKS10
  Note: Calibration is required each time the lens is mounted.
- **12G-SDI Terminal Board**
  TY-SB01QS
- **Wireless Presentation System Receiver Board**
  TY-SB01WP
- **DIGITAL LINK Terminal Board**
  TY-SB01DL
- **DIGITAL LINK Switcher / Digital Interface Box**
  ET-YFB200G / ET-YFB100G
  Note: Requires TY-SB01DL DIGITAL LINK Terminal Board. ET-YFB200G / ET-YFB100G not compatible with 4K signals.
- **Wireless Module** AJ-WM50 Series
  Note: Product availability may vary by country or region. The suffix at the end of the model number is omitted. Operating Temperature: 0–40 °C (32–104 °F).
- **Early Warning Software**
  ET-SWA100 Series
  Note: Part number suffix may differ depending on the license type.
- **NFC Upgrade Kit** ET-NUK10
  Note: Product availability may vary by country or region.
- **Wireless Presentation System PressIT**
  TY-WPS1 (basic set)
  Note: Product availability may vary by country or region. Visit https://panasonic.net/cns/prodisplays/pressit for more information.

Panasonic CONNECT

For more information about Panasonic projectors, please visit:

Projector Global Website – **https://panasonic.net/cns/projector/**
Facebook – **www.facebook.com/panasonicprojectoranddisplay**
YouTube – **www.youtube.com/user/PanasonicProjector**

*Note: Following the shift of the Panasonic Group to a holding company system, the Connected Solutions Company of the Panasonic Corporation has changed to **Panasonic Connect Co., Ltd.** as of April 1, 2022.*

All information included here is valid as of October 2022.

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