Panasonic



The World’s Smallest and Lightest 42,000 lm*1 Projector: The New Benchmark in 4K Projection Mapping

PT-RQ45K

3-Chip DLPTM laser projector with 42,000 lumens brightness and 4K (3840 × 2400) resolution using Quad Pixel Drive. Features a multi-laser light engine (dual blue lasers and one red laser) for high color accuracy and smooth gradation. Supports interchangeable lenses (lens not included). Operating noise: approximately 50 dB. Equipped with an Intel® SDM slot, 12G-SDI input, and a 5-inch built-in LCD monitor for preview and status monitoring. Designed as a compact, lightweight all-in-one body optimized for rental and staging workflows, compatible with existing frames and lenses. Supports 240 Hz (1080p) input, 24/7 continuous operation, and 360-degree installation. Approximate weight 70 kg, dimensions 598 × 353

Key Features

- A Revolution in Workflow Efficiency
- Lasting Reliability in Harsh Environments
- Spectacular Visuals for the Biggest Events

SOLID SHINE LASER

4K PROFESSIONAL

24/7 Operation

360°

Panasonic

PT-RQ45K

https://ap.pnd.panasonic.com/th/en/pt-rq45k

Projector type	3-Chip DLP™ projector
Display method	DLP™ chip x 3, DLP™ projection system
Display Device -> Panel size	24.4 mm (0.96 in) diagonal (16:10 aspect ratio)
Display Device -> Number of pixels	2,304,000 (1920 x 1200 pixels) x 3
Light source	Laser diodes (Blue LD, Red LD)
Light output *1 *2	42,000 lm*3
Light output (ANSI)	42,000 lm*4
Light output (Center)	43,600 lm*5
Time until light output declines to 50 % -> NORMAL *6	20,000 hours [NORMAL]
Time until light output declines to 50 % -> ECO *6	24,000 hours [ECO]
Time until light output declines to 50 % -> QUIET *6	26,000 hours [QUIET]
Resolution	PT-RQ42K: 4K (3840 x 2400 pixels) (Quad Pixel Drive: ON) PT-RZ41K: WUXGA (1920 x 1200 pixels)
Contrast Ratio (typ.) *3	25,000 : 1(Full On/Full Off, Dynamic Contrast [3])
Screen size (diagonal)	1.78–25.40 m (70–1000 in) (Depending on attached lens)
Center-to-corner zone ratio *3	90%
Lens	Optional (No lens included with this model)
Lens shift -> Vertical(from center of screen)	±55 % (+68 %, +78 % with ET-D75LE95, ±48 % with ET-D3LEW201,±44 % with ET-D3LEW60/D3LEW300/D3LEW600) (Powered)
Lens shift -> Horizontal(from center of screen)	±20 % (±15 % with ET-D3LEW300/D3LEW600/D3LEW201, ±12 % with ET-D75LE95,0 %, +25 % with ET-D3LEU101) (Powered)
Keystone correction range	Vertical: ±45 ° (± 40 ° with ET-D3LEW10/D3LES20/D3LES250, ±28 ° with ET-D3LEW600, ±22 ° with ET-D3LEW50, ±15 ° with ET-D3LEW201/D3LEW300, ±8 ° with ET-D3LEU101, +5 ° with ET-D75LE95); Horizontal: ±40 ° (±15 ° with ET-D3LEW50/D3LEW600, ±5 ° with ET-D3LEU101/D3LEW201/D3LEW300, 0 ° with ET-D75LE95) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °
Installation	Ceiling/floor, front/rear, free 360-degree installation
Terminals -> SDI IN	BNC x 1 : 12G / SDI input
Terminals -> HDMI™ IN	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input*7)
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 -> REMOTE 1 IN	M3 stereo mini-jack x 1 for wired remote control
Terminals -> REMOTE 1 OUT	M3 stereo mini-jack x 1 for link control (for wired remote control)
Terminals -> LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible
Terminals -> DC OUT	USB Connector Type A x 1 (for power supply, DC 5 V, 2 A)
Terminals -> USB TYPE A	USB connector Type A x 1 for optional AJ-WM50 Series Wireless Module/USB memory
Terminals -> SLOT	Open slot for function boards, Intel® SDM standard-compatible
Protocol versions	IPv4, IPv6*8
Power supply	Single Phase AC 100–240 V, 50/60 Hz
Maximum power consumption *9	Approx.3,170 W
On-mode power consumption(Operating mode) -> Normal *9 *10	Approx.2,860 W
On-mode power consumption(Operating mode) -> Eco *9 *10	Approx.2,250 W
On-mode power consumption(Operating mode) -> Quiet *9 *10	Approx.2,010 W
Cabinet materials	Molded plastic
Operation noise -> Normal *3	49 dB [NORMAL]
Operation noise -> Eco *3	49 dB [ECO]
Operation noise -> Quiet *3	45 dB [QUIET]
Dimensions (W x H x D)	Approx. 598 x 352 x 780 mm (23 17/32″ x 13 27/32″ x 30 23/32″) (Not including protruding parts)
Weight *11	Approx. 66.7 kg (147.0 lbs)
Operating environment -> Operating temperature *12	0–45 °C (32–113 °F)
Operating Environment -> Operating humidity (No condensation)	10–80 % (no condensation)
Applicable software	Visual Software Suite, Multi Monitoring & Control Software, Projector Network Setup Software, Smart Projector Control for iOS/Android™
Control function via LAN	Crestron Connected™ V2, Crestron XiO Cloud™, Art-Net DMX, AMX® DD, and PJLink™ (Class 2)
Terminals -> MULTI SYNC IN/ 3D SYNC 1 IN/OUT (dual purpose)	-

Terminals -> MULTI SYNC OUT/ 3D SYNC 2 OUT (dual purpose)	-
Terminals -> DVI-D IN	–
Terminals -> DisplayPort™ IN	–
Terminals -> DIGITAL LINK IN / LAN	–
Gross Dimensions (W x H x D in mm)	Approx. 790 x 702 x 957 mm
Gross Weight (Kg)	Approx. 82.0 kg (180.8 lbs)
NFC	Yes
Active 3D	No
SDM	Yes
EAN	RQ45KEJ: 5025232988921 RQ45KD: 8887549897283 RQ45KE: 8887549897276
Footnote Description	1. Value with ET-D3LES250 Zoom Lens (available CY2026) and a power supply voltage of AC 200–240 V. The value varies depending on the lens. 2. When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. 3. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. 4. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. 5. Average light-output value of all shipped products measured at the center of the screen in NORMAL Mode. 6. Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE] is set to [DYNAMIC], [DYNAMIC CONTRAST] is set to [2]). Estimated time until light output declines to 50 % varies depending on environment. 7. 4K signals are converted to WUXGA (1920 x 1200 pixels) only for the PT-RZ44K. 8. Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 9. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. 10. On-mode power consumption measured at 25 °C (77 °F) operating temperature at analtitude of 700 m (2,297 ft). 11. Average value. May dier depending on the actual unit. 12. Do not install the projector at an altitude of 4,200 m (13,780 ft) or higher above sea level. (Altitude of 4,200 m [13,780 ft] above sea level is the maximum height that the performance of this projector is guaranteed.) Using the projector in a location where the altitude is too high or the ambient temperature is too high may reduce the life of the components or result in malfunctions. Upper limit of the operating environment temperature varies depending on the altitude above sea level. When using the projector at an altitude between 0 m (0 ft) and 1,400 m (4,593 ft) above sea level: 0 °C (32 °F) to 45 °C (113 °F). When using the projector at an altitude between 1,400 m (4,593 ft) and 4,200 m (13,780 ft) above sea level: 0 °C (32 °F) to 40 °C (104 °F). Do not use the projector in a location where the ambient temperature exceeds 40 °C (104 °F) regardless of the altitude when the optional AJ-WM50 Series Wireless Module is attached to the projector.