Panasonic

MEVIX

3-Chip DLP™ Projectors

PT-RQ45K Series

Note: Product availability may vary by country or region.

The World's Smallest and Lightest 42,000 lm[1] Projector: The New Standard in 4K Projection Mapping

Note: Based on publicly available dimensions and weights of projectors with a brightness of 36,000 lm or higher, as of March 2026 (according to Panasonic Projector & Display Corporation research).

Note: Lens not included.

Main Features

01 | Engineered for Efficient Workflow

Building on the logistics-friendly footprint of the PT-RQ35K2 Series, the PT-RQ45K Series is the world's smallest and lightest 42,000 lm[1] projector[2], and a clear leap forward in workflow efficiency. A modular internal structure expedites cleaning and service, reducing rental downtimes, while a 5-inch color LCD Information Monitor, 12G-SDI input[3], and Intel® SDM standard-compatible slot[4] streamline setup, checks, and integration. Compatibility with existing D3LE-series lenses[5], frames, and flight cases lowers TCO for a strong return on investment.

02 | Trusted Performance in Tough Applications

Engineered for harsh environments, the PT-RQ45K Series features corrosion-inhibiting coatings[6] that protect against moisture and dust. A mechanical shutter safeguards the DMD during live events, while Multi Laser Drive Engine and Backup Input[7] minimize the risk of interruptions. The optical engine and light source conform to the IP5X Dust Protected (IEC 60529)[8] standard and are supported by discrete liquid cooling systems, stabilizing performance and enabling Dynamic Digital Control to modulate red laser output for consistently accurate color balance.

03 | Spectacular Visuals at Any Scale

The PT-RQ45K Series features a multi-laser light source combining two blue and one red laser to achieve 91% DCI coverage, delivering vivid reds and pure blues. Quad Pixel Drive[3] smoothly renders 4K[9] detail even on massive canvases, while Detail Clarity Processor 5 and new six-step Gradation Smoother 2 function refine image detail and tonal transitions. Supporting 240 Hz video playback[10] and optional real-time tracking projection mapping[11], the result is an intensely colorful, deeply immersive visual experience.

PT-RQ45K Series		
	PT-RQ45K	PT-RZ44K
Light Output	42,000 lm[1] / 42,000 lm (ANSI)[12] / 43,600 lm (Center)[13]	
Resolution	4K (3840 x 2400 pixels)[9]	WUXGA (1920 x 1200 pixels)

Note: Availability of the PT-RZ44K may vary by country or region.

DLP Texas Instruments · Solid Shine Laser · 4K Professional[9] · Quad Pixel Drive[3] · 240Hz High-speed[10] · 4K Digital Link[14, 15] · Accepts 4K Signal[14] · intel. smart display module ready · 3D Professional[16] · Visual Software Suite · 360° · 24/7 operation

1 With the ET-D3LES250 Zoom Lens attached. When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and notation method all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. 2 Based on publicly available dimensions and weights of projectors with a brightness of 36,000 lm or higher, as of March 2026 (according to Panasonic Projector & Display Corporation research). 3 PT-RQ45K only. 4 Optional proprietary and third-party function boards are sold separately. Panasonic Projector & Display Corporation cannot guarantee the operation of third-party devices. 5 Some projection lenses are not supported. 6 Coating applied to select circuit boards only. 7 Primary and backup terminal assignments are fixed. The input signals to primary and backup inputs must be identical. 8 The Dust Protected performance of this unit is not guaranteed to be free from damage or failure under all conditions (environment with conductive dust, etc.). Please use an enclosure in environments with smoke containing oil, salt, and moisture. 9 PT-RQ45K only. Maximum physical resolution 3840 x 2400 pixels with Quad Pixel Drive [ON]. 10 PT-RQ45K only. Supports input signals up to 1080p. The display frame rate corresponds to the input signal frame rate. 11 Requires optional ET-SWR10 Software Development Kit (SDK) used with third-party devices (sold separately). Compatibility with third-party devices cannot be guaranteed, and other conditions apply. For more information, please visit the ET-SWR10 webpage. 12 With the ET-D3LES250 Zoom Lens attached. When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. 13 Average light-output value of all shipped products measured at the center of the screen in NORMAL Mode. 14 Input signals to the PT-RZ44K are converted to the projector's display resolution upon playback. YPBPR 4:2:0 format only for 4K/60p signals input via DIGITAL LINK. 15 Requires optional TY-SB01DL DIGITAL LINK Terminal Board. 16 PT-RZ44K only.

Other Features

- Supports Crestron Connected™ V2, Crestron XiO Cloud™, Art-Net DMX, AMX® DD, PJLink™, and IPv6[1]
- Contrast Sync, Shutter Sync, and data cloning[2] via LAN
- Information Monitor LCD supports Remote Preview, Angle Monitor, settings UI, status, and error messages
- Integrates with Visual Software Suite
- Set up, adjust, and control with Smart Projector Control app via USB Control Connect without a LAN connection
- Supports AC 100–120 V power (Japan/US only)[3]
- Advanced black level adjustment for curved screens
- Eco-conscious design featuring approx. 71%[4] recycled plastic, improved energy efficiency, and ECO Standby[5]

Learn More

For more information, please scan the QR code to access the RQ45K Series product webpage at our global projector website.

1 Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 2 Data-cloning is supported among models in the same series with the same resolution. Excludes passwords, projector ID, and network settings. Data cloning via USB device is also supported. 3 Max. light output limited to 21,000 lm or less when using the projector with AC 100–120 V. 4 By total weight of plastic parts in the projector main unit. Excludes projection lenses, printed circuit boards, labels, cables, connectors, electronic components, optical components, ESD components, EMI components, adhesives, and coatings. 5 Consumption is < 1 W in ECO Standby and functional limitations apply when this mode is enabled.

Specifications

Model		PT-RQ45K	PT-RZ44K
Projector type		3-Chip DLP™ projector	
DLP™ chip	Panel size	24.4 mm (0.96 in) diagonal (16:10 aspect ratio)	
	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] / 42,000 lm (ANSI)[4] / 43,600 lm (Center)[5]	
Time until light output declines to 50 %[6]		20,000 hours (NORMAL), 24,000 hours (ECO), 26,000 hours (QUIET)	
Resolution		4K (3840 x 2400 pixels) (Quad Pixel Drive: ON)	WUXGA (1920 x 1200 pixels)
Contrast ratio[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 (From the origin point of the lens mounter)	Vertical	±55 % (+68 %, +78 % with ET-D75LE95, ±48 % with ET-D3LEW201, ±44 % with ET-D3LEW60/D3LEW300/D3LEW600) (Powered)	
	Horizontal	±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-D3LEW60/D3LEW600, ±22 ° with ET-D3LEW50, ±15 ° with ET-D3LEW201/D3LEW300, ±8 ° with ET-D3LEU101, ±5 ° with ET-D75LE95); Horizontal: ±40 ° (±15 ° with ET-D3LEW50/D3LEW60/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 °.	
Terminals	HDMI™ 1/2 IN	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input[7])	
	12G/3G/HD SDI IN	BNC x 1	—
	3G/HD SDI IN	—	BNC x 1
	SERIAL IN	D-sub 9-pin (Female) x 1 for external control (RS-232C compliant)	
	MULTI PROJECTOR SYNC IN	BNC x 1	
	MULTI PROJECTOR SYNC OUT	BNC x 1	
	3D SYNC 1 IN/OUT	—	BNC x 1 (MULTI PROJECTOR SYNC IN dual purpose)
	3D SYNC 2 OUT	—	BNC x 1 (MULTI PROJECTOR SYNC OUT dual purpose)
	REMOTE IN	M3 stereo mini-jack x 1 for wired remote control	
	REMOTE OUT	M3 stereo mini-jack x 1 for link control (For wired remote control)	
	LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 100Base-TX/1000Base-T, 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 function boards, Intel® SDM standard-compatible	
Protocol versions		IPv4, IPv6[8]	
Power supply		Single-phase AC 100–120 V / Single-phase AC 200–240 V, 50/60 Hz (Max. light output limited to 21,000 lm or less when using the projector with AC 100–120 V)	
Maximum power consumption[9]		3,170 W	3,110 W
On-mode power consumption (Operating mode)[9, 10]	NORMAL	2,860 W	2,850 W
	ECO	2,250 W	2,240 W
	QUIET	2,010 W	2,000 W
Operation noise[3]		49 dB (NORMAL/ECO), 45 dB (QUIET)	
Dimensions (W x H x D)		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)	Approx. 66.5 kg (146.6 lbs)
Operating environment		Operating temperature: 0–45 °C (32–113 °F)[12], operating humidity: 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)	

1 Value with ET-D3LES250 Zoom Lens and a power supply voltage of AC 200–240 V. 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 an altitude of 700 m (2,297 ft). 11 Average value. May differ depending on the actual unit. 12 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) above sea level. The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) when the optional AJ-WM50 Series Wireless Module is attached. When the operating environment temperature exceeds the following value, the light output may be reduced to protect the projector. When using the projector at an altitude lower than 2,700 m (8,858 ft) above sea level: 35 °C (95 °F). When using the projector at an altitude between 2,700 m (8,858 ft) and 4,200 m (13,780 ft) above sea level: 25 °C (77 °F).

Optional Lenses

Lens Type	Model No.	Throw Ratio[1]
Fixed-Focus Lens	ET-D75LE95	0.364:1
	ET-D3LEU101[2]	0.370:1
	ET-D3LEW50[2]	0.694:1
Zoom Lens	ET-D3LEW201[3]	0.645–0.850:1
	ET-D3LEW300[3]	0.770–0.933:1
	ET-D3LEW600[3]	0.924–1.28:1
	ET-D3LEW10[3]	1.26–1.72:1
	ET-D3LES250[3]	1.67–2.41:1
	ET-D3LES20[3]	1.67–2.41:1
	ET-D3LET30[3]	2.40–4.66:1
	ET-D3LET40[3]	4.61–7.41:1
	ET-D3LET80[3]	7.34–13.8:1
Fisheye Lens	ET-D3LEF70[2]	—

1 When inputting a 4K or WUXGA signal. 2 Equipped with Auto Lens Identification Function. 3 Supports Auto Lens Identification and stepping motor functions.

Optional Accessories

- **ET-FMP50 Series Media Processors**
  ET-FMP50 / ET-FMP20 / ET-SBFMP10
  Note: For more information, please visit: https://docs.connect.panasonic.com/projector/products/fmp50
- **Function Boards**
  Media Processor Board (ET-SBFMP10) / 12G-SDI Optical Function Board (TY-SB01FB) / 12G-SDI Terminal Board (TY-SB01QS) / DIGITAL LINK Terminal Board (TY-SB01DL)
- **Lens Fixed Attachments**
  ET-PLF10[1] / ET-PLF20[2]
  1 For the ET-D3LEF70. 2 For the ET-D3LEU101/D3LEW201.
  Note: Attachments required in some installation environments.
- **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).
- **NFC Upgrade Kit**
  ET-NUK10
  Note: Product availability may vary by country or region.
- **Filter Kit**
  ET-EMF740DK
  Note: Product availability may vary by country or region.
- **Filter Pack**
  ET-EMF740DP
  Note: Product availability may vary by country or region.
- **Real-Time Tracking Projection Mapping System**
  ET-SWR10
  Note: PT-RQ45K only. Conditions apply. Availability may vary by country or region. Visit https://docs.connect.panasonic.com/projector/products/swr10 for more information.

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All information included here is valid as of March 2026.

PT-RQ45K_Series_G1 Printed in Japan.