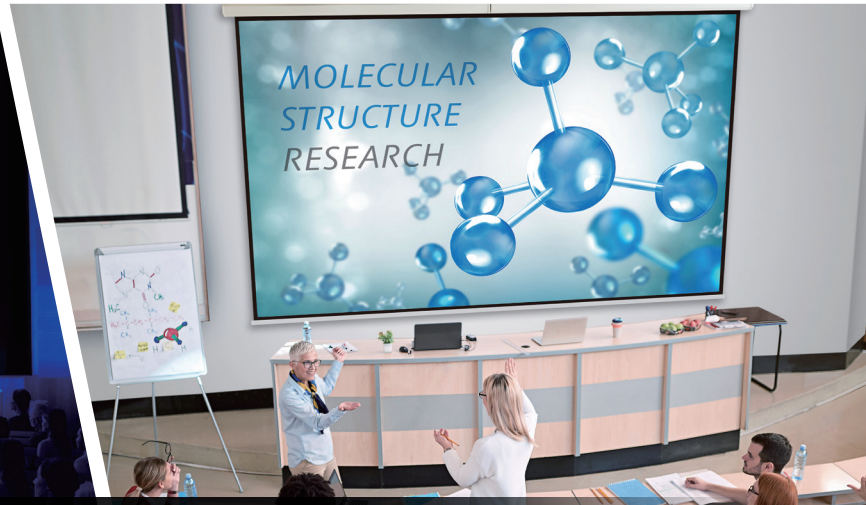
Panasonic CONNECT

PT-RZ14K

3-Chip DLP™ Projector

Note: This projector is available only in the US, Canada, and Japan. Lenses sold separately.



Ultra-Compact 3-Chip DLP™ Projector Sets a New Benchmark for Integrators with 14,000 lm[1] on AC 100–120 V

Main Features

01 | Efficient and Profitable Events Production

RZ14K optimizes the RQ25K Series design for rental/staging and is 20% lighter and 40% smaller than its RZ12K predecessor. It suits existing 3-Chip DLP™ lenses[4], delivers 14,000 lm[1] on AC 100–120 V power, and has an Intel® SDM-ready[5] slot. Other exclusives include the NFC function and preactivated upgrade kits for Geo Pro[6] software.

02 | Compelling Visuals to Inspire Your Audience

Expect awe-inspiring visuals with high brightness, contrast, resolution, and color accuracy. Dynamic Contrast has increased to 25,000:1[7] and features more realistic scene analysis. Gradation Smoother supports on-the-fly color-banding correction, while the evolved black level function offers control-point border adjustment for curved screens.

03 | Low-Maintenance Reliability for Peace of Mind

The projector's optical engine and laser light source module comply with the IP5X Dust Protected (IEC 60529)[8] standard and, together with a filterless liquid cooling system, enable 20,000 hours[9] of maintenance-free projection. Backup Input[10] and Multi Laser Drive Engine enhance reliability and add insurance against interruptions.

Note: Lens not included.

	PT-RZ14K
Light Output	14,000 lm[1] / 14,700 lm (Center)[11]
Resolution	WUXGA

1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all shipped products. 2 Only when the optional TY-SB01DL DIGITAL LINK Terminal Board is loaded. 3 Input signals are converted to the projector's display resolution upon playback. YPBPR 4:2:0 format only for 4K/60p signals input via DIGITAL LINK. 4 Some lenses excluded. Please refer to the Optional Accessories section overleaf for optional lenses compatible with the PT-RZ14K. 5 Optional proprietary and third-party Intel® SDM-ready function boards are sold separately. Panasonic cannot guarantee the operation of third-party devices. 6 Geometry Manager Pro software for Windows® and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software. 7 Full On/Full Off with Dynamic Contrast set to [3]. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118:2020 international standards. 8 The dust-proof 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 Around this time, light output will have decreased by approximately 50 %. IEC62087:2008 Broadcast Contents, 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 a checkup at the 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. The estimated maintenance time varies depending on the environment. 10 The terminal assignment is fixed. Input signals to primary and backup inputs must be identical. 11 Average light output value of all shipped products measured at the center of the screen in NORMAL Mode.

Optimized for Professional Integrators

RZ14K eases the logistical burden on integrators. It delivers full brightness on AC 100–120 V, eliminating the costly high-voltage requirement. It's almost half the size of the previous RZ12K by volume and weighs 20% less for easy handling with two people. Compatible with existing lenses[1], RZ14K will impress your clients with visually spectacular yet efficient performance.

Immersive Images to Enchant the Audience

In addition to 3-Chip DLP™ color accuracy, RZ14K has higher 25,000:1[2] contrast and new scene analysis circuitry that better recognizes light and dark areas of the image, making blacks, whites, and contrasting colors stand out dramatically. Evolved black-level settings enable seamless blending on curved screens, and color-banding is easily corrected via remote control.

Streamline Your Workflow with Exclusive Functions

Time is money, and RZ14K saves you both. Prepare for setup without AC power using the NFC function, integrate and scale connectivity with the Intel® SDM-ready slot[3], import custom test patterns[4], use preactivated Geo Pro[5] upgrade kits to expedite adjustment and blending, and check the input signal on a PC during soundchecks if projection isn't possible.

Extremely Stable, Low-Maintenance Operation

RZ14K is engineered to prevent interruptions while providing stable, reliable, and sustainable performance in tough conditions. Its optical engine and laser light-source module comply with the IP5X Dust Protected (IEC 60529)[6] standard, eliminating air filters and enabling 20,000 hours[7] of maintenance-free projection, while refined liquid cooling and one-way airflow path enable continuous operation in dusty environments.

Other Features

- Supports Art-Net DMX, PJLink™, Crestron Connected® V2, and Crestron® XiO Cloud
- Compatible with IPv6[8]
- DICOM Simulation Mode
- Multi-screen Support System
- Multi-Unit Brightness and Color Control
- Waveform Monitor function
- Quick Off function

1 Some lenses excluded. Please refer to Optional Accessories below for lenses compatible with the PT-RZ14K. 2 Full On/Full Off with Dynamic Contrast set to [3]. 3 Optional proprietary and third-party Intel® SDM-ready function boards are sold separately. Panasonic cannot guarantee the operation of third-party devices. 4 Supports PNG (1/8/16/24/32/48/64-bit, non-transparent, alpha blending disabled) and BMP (1/8/24-bit) formats with a maximum 1920 x 1200-dot resolution. For more information, please check the Operating Manual. 5 Geometry Manager Pro software for Windows® and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software. 6 The dust-proof 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. 7 Around this time, light output will have decreased by approximately 50 %. IEC62087:2008 Broadcast Contents, 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 a checkup at the 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. The estimated maintenance time varies depending on the environment. 8 Optional AJ-WM50 Series Wireless Module is incompatible with IPv6.

Specifications

Model		PT-RZ14K
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]		14,000 lm / 14,700 lm (Center)[3]
Time until light output declines to 50 %[4]		20,000 hours (NORMAL), 24,000 hours (ECO)
Resolution		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/ET-D3LEW300, +71 % / +93 % with ET-D75LE95, ±66 % with ET-D3LEU100, ±57 % with ET-D3LEW200) (powered)
	Horizontal	±24 % (±18 % with ET-D75LE6/ET-D3LEW60/ET-D3LEW300, ±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/ET-D3LEW300, ±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/ET-D3LEW300, ±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)
	DisplayPort™	DisplayPort™ x 1 (Deep Color, compatible with HDCP 2.3)
	MULTI SYNC IN/ 3D SYNC 1 IN/OUT (dual purpose)	BNC x 1 (TTL high impedance. When [3D SYNC MODE] is set to output, TTL output: Maximum 10 mA)
	MULTI SYNC OUT/ 3D SYNC 2 OUT (dual purpose)	BNC x 1 (TTL output: Maximum 10 mA)
	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 100–120 V / AC 200–240 V
Maximum power consumption[5]		AC 200–240 V: 1,050 W (1,060 VA), AC 100–120 V: 1,080 W (1,090 VA)
On-mode power consumption (Operating mode)[5]	[NORMAL]	950 W
	[ECO]	780 W
Operation noise[2]		40 dB (NORMAL/ECO)
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[6]		Approx. 35 kg (77.2 lbs)
Operating environment		Operating temperature: 0–45 °C (32–113 °F[7]), 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. 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 the center of the screen in NORMAL Mode. 4 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, 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 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). 6 Average value. May differ depending on the actual unit. 7 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 Lens**
  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[1] / 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.
- **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.
- **Function Boards**
  12G-SDI Terminal Board (TY-SB01QS) / Wireless Presentation System Receiver Board (TY-SB01WP) / DIGITAL LINK Terminal Board (TY-SB01DL) / 12G-SDI Optical Function Board (TY-SB01FB)
- **DIGITAL LINK Switcher / Digital Interface Box**
  ET-YFB200G / ET-YFB100G
  Note: Requires TY-SB01DL DIGITAL LINK Terminal Board. ET-YFB200G/ET-YFB100G is incompatible 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 suffixes may differ depending on the license type.
- **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**

All information included here is valid as of September 2023.

PT-RZ14K_G1 Printed in Japan.