

# Ultra-Compact 3-Chip DLP™ Projector Sets the Benchmark for Events Rental/Staging with 14,000 Im<sup>1</sup> on AC 100–120 V<sup>2</sup>



	PT-RZ14K
Light Output	14,000 Im <sup>2</sup>
Resolution	WUXGA (1920 x 1200)

Note: Specifications are tentative. Ships without a lens (lenses sold separately).

## • Efficient and Profitable Events Production

Based on the groundbreaking RQ25K Series, RZ14K weighs 20% less and is about 40% smaller than the previous RZ12K for efficient transport and installation. It supports existing 3-Chip DLP™ lenses<sup>5</sup> and full-brightness projection on AC 100–240 V power<sup>2</sup>. Intel® Smart Display Module (Intel® SDM)-ready slot integrates proprietary or third-party function boards<sup>6</sup> that adapt and scale connectivity. Save time with the NFC function, user test-pattern registration<sup>7</sup>, and preactivated upgrade kits for Geo Pro<sup>8</sup>.

## • Compelling Visuals That Inspire the Audience

RZ14K combines high brightness, resolution, contrast, and color accuracy for an awe-inspiring visual experience. Dynamic Contrast increases to 25,000:1<sup>9</sup> and includes new scene analysis circuitry that better recognizes light and dark areas of the image, dramatically enhancing realism. Gradation Smoother provides easy correction of color banding, while the black level function offers control-point border adjustment for curved screens.

## • Maintenance-free Reliability to Reduce Downtime

The projector's optical engine and laser light source module comply with the IP5X Dust Protected (IEC 60529)<sup>10</sup> standard, and together with a filterless liquid cooling system, enable 20,000 hours<sup>11</sup> of maintenance-free projection. Backup Input<sup>12</sup> and Multi Laser Drive Engine enhance reliability and add insurance against interruptions that impact the guest experience.

<sup>1</sup> Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all shipped products. <sup>2</sup> When operating the projector on AC 100–120 V power, the maximum light output may be reduced if an optional third-party function board is installed. <sup>3</sup> Only when the optional TY-SB01DL DIGITAL LINK Terminal Board is loaded. <sup>4</sup> 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. <sup>5</sup> Some lenses excluded. Refer to the next page for optional lenses compatible with the PT-RZ14K. <sup>6</sup> Optional proprietary and third-party Intel® SDM-ready function boards sold separately. Panasonic cannot guarantee the operation of third-party devices. <sup>7</sup> 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 resolution of 1920 x 1200 dots. <sup>8</sup> Geometry Manager Pro software for Windows<sup>®</sup> and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software. <sup>9</sup> 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. <sup>10</sup> 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. <sup>11</sup> 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/m<sup>3</sup> 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. <sup>12</sup> The terminal assignment is fixed. Input signals to primary and backup inputs must be identical.

Specifications (Tentative)

<b>Model</b>	PT-RZ14K	
<b>Projector type</b>	3-Chip DLP™ projector	
<b>DLP™ chip</b>	Panel size	20.3 mm (0.8 in) diagonal (16:10 aspect ratio)
	Display method	DLP™ chip x 3, DLP™ projection system
	Number of pixels	2,304,000 (1920 x 1200 pixels) x 3
<b>Light source</b>	Laser diode	
<b>Light output</b> <sup>1,2</sup>	14,000 lm	
<b>Time until light output declines to 50 %</b> <sup>3</sup>	20,000 hours (NORMAL), 24,000 hours (ECO)	
<b>Resolution</b>	WUXGA (1920 x 1200 pixels)	
<b>Contrast ratio</b> <sup>2</sup>	25,000:1 (Full On/Full Off, Dynamic Contrast [3])	
<b>Screen size (diagonal)</b>	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	
<b>Center-to-corner zone ratio</b> <sup>2</sup>	90 %	
<b>Lens</b>	Optional (no lens included with this model)	
<b>Lens shift</b> (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)
<b>Keystone correction range</b>	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 °.	
<b>Installation</b>	Ceiling/floor, front/rear, free 360-degree installation	
<b>Terminals</b>	HDMI™ IN	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3)
	DisplayPort™	DisplayPort™ x 1 (Deep Color, compatible with HDCP 2.3)
	MULTI PROJECTOR SYNC IN/ 3D SYNC 1 IN/OUT (dual purpose)	BNC x 1 (TTL high impedance)
	MULTI PROJECTOR 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
	<b>Power supply</b>	AC 100–120 V <sup>4</sup> / AC 200–240 V
<b>Power consumption</b> <sup>5</sup>	Maximum power consumption	AC 200–240 V: 1,060 W (1,080 VA) (TBD) AC 100–120 V: 1,110 W (1,120 VA) (TBD)
	On-mode power consumption (Operating mode)	[NORMAL] 970 W (TBD) [ECO] 760 W (TBD)
<b>Operation noise</b> <sup>2</sup>	40 dB (NORMAL/ECO) (TBD)	
<b>Dimensions (W x H x D)</b>	Approx. 550 x 220 x 570 mm (21 5/8" x 8 11/16" x 22 7/16") (not including protruding parts)	
<b>Weight</b> <sup>6</sup>	Approx. 35 kg (77.2 lbs)	
<b>Operating environment</b>	Operating temperature: 0–45 °C (32–113 °F), operating humidity: 10–80 % (no condensation)	
<b>Applicable software</b>	Logo Transfer Software, Multi Monitoring & Control Software, Projector Network Setup Software, Early Warning Software, Geometry Manager Pro, Smart Projector Control for iOS/Android <sup>7</sup>	

<sup>1</sup> This is the value when the Zoom Lens (Model No.: ET-D3LE520) is used. The value varies depending on the lens. <sup>2</sup> Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. <sup>3</sup> 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/m<sup>3</sup> of particulate matter. Estimated time until light output decreases to 50 % will vary depending on environment. <sup>4</sup> When operating the projector on AC 100–120 V power, the maximum light output may be reduced if an optional third-party function board is installed. <sup>5</sup> 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). <sup>6</sup> Average value. May differ depending on the actual unit. <sup>7</sup> 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 (0.437:1) / ET-D3LEU100<sup>1</sup> (0.447:1) / ET-D3LEW50<sup>1</sup> (0.838:1)  
<sup>1</sup> Equipped with Auto Lens Identification Function.
- **Zoom Lens**  
ET-D3LEW200<sup>1</sup> (0.779–1.03:1) / ET-D3LEW300<sup>1,2</sup> (0.924–1.12:1) / ET-D3LEW60<sup>1</sup> (1.12–1.32:1) / ET-D75LE6 (1.12–1.32:1) / ET-D3LEW10<sup>1</sup> (1.52–2.07:1) / ET-D75LE10 (1.56–2.01:1) / ET-D3LES20<sup>1</sup> (2.00–2.90:1) / ET-D75LE20 (2.00–2.90:1) / ET-D3LET30<sup>1</sup> (2.88–5.61:1) / ET-D75LE30 (2.89–5.61:1) / ET-D3LET40<sup>1</sup> (5.54–8.90:1) / ET-D75LE40 (5.55–8.86:1) / ET-D3LET80<sup>1</sup> (8.83–16.6:1) / ET-D75LE8 (8.83–16.6:1)  
<sup>1</sup> Equipped with Auto Lens Identification Function and Stepping Motor.  
<sup>2</sup> ET-D3LEW300 will be available from CY2023 Q3.
- **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).
- **Projector Mount Bracket** ET-PKD521B
- **Lens Fixed Attachment**  
ET-PLF10<sup>1</sup> (For ET-D3LEF70) / ET-PLF20<sup>1</sup> (For ET-D3LEU100/D3LEW200)  
<sup>1</sup> 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)  
Note: TY-SB01FB estimated to ship in CY2023 Q3.
- **DIGITAL LINK Switcher / Digital Interface Box**  
ET-YFB200G / ET-YFB100G  
Note: ET-YFB200G/YFB100G is incompatible with 4K signals. Requires TY-SB01DL DIGITAL LINK Terminal Board.
- **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: Availability may vary by country or region.



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All information included here is valid as of June 2023.

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