

PT-RZ21K Series

3-Chip DLP™ Projectors

Available from November 2017

Tentative

21,000 lm (Center) of Compact SOLID SHINE Laser Power Goes Filterless for Ultimate Endurance



PT-RZ21K Series		
	PT-RZ21K	PT-RS20K
Brightness	21,000 lm (Center)*1 / 20,000 lm*2	
Resolution	WUXGA	SXGA+
Contrast	20,000:1	

*1 Measured at center area of projector screen. *2 Measurement method is in compliance with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped.

Original Technology Assures Elite Performance

- Combines 3-Chip DLP™ with Panasonic SOLID SHINE Laser Phosphor Technology for Bright, Natural, and Immersive Picture Quality
- High 20,000 lm Brightness in a Compact, Lightweight, Easy-to-Handle Body
- Compatible with Latest Color Space Standard for Accurate Image Reproduction
- Minimal Maintenance Required Under Continuous Operation
- Efficient Cooling System for Stable Operation and Long Life

Reference Images Last Longer for Lower TCO

- Dust-resistant Design Featuring Hermetically Sealed Laser Modules and Efficient Filterless Design
- Dynamic Contrast Laser Light-source Modulation Achieves High Contrast
- Detail Clarity Processor Clarifies and Enhances Fine Details with Advanced Processing Algorithm
- Daylight View Function Improves Color Perception in Bright Environments and in Mapping Applications

Versatile Installation and System Flexibility

- Free 360-degree Installation (Vertical and Horizontal)
- Shares Optional Lenses with Panasonic 3-Chip DLP™ Projector Family Including Ultra-Short Throw Lens
- DIGITAL LINK Supports Transmission of Uncompressed Full HD Video and Control Commands Through Single LAN Cable
- Multi-Screen Support System Seamlessly Merges Multiple Screens
- Multi-Unit Brightness and Color Control
- Free Geometry Manager Pro and Optional Upgrade Kit

Specifications (Tentative)

Model	PT-RZ21K	PT-RS20K	
Power supply	AC 200 V~240 V, 7.7 A, 50/60 Hz (Light output will decrease to approximately 50 % when using the projector with AC 100 V to AC 120 V [9.6 A].)		
Power consumption	1,510 W (0.3 W with Standby Mode set to Eco*, 4 W with Standby Mode set to Normal)		
DLP™ chip	Panel size	24.4 mm (0.96 inches) diagonal (16:10 aspect ratio)	
	Display method	DLP™ chip × 3, DLP™ projection system	
	Pixels	6,912,000 (1920 × 1200 × 3) pixels	
Refresh rate	120 Hz**		
Lens	Optional (no lens included with this model), powered zoom, powered focus lens		
Light source	Laser Diode (Laser class: Class 1)**; Light source life: 20,000 hours (Normal Mode, brightness decreases to approx. 50 %)		
Screen size (diagonal)	1.78–25.4 m (70–1,000 in) with 16:10 aspect ratio	1.78–25.4 m (70–1,000 in) with 4:3 aspect ratio	
	1.78–15.24 m (70–600 in) with the ET-D75LE8, 16:10 aspect ratio	1.78–15.24 m (70–600 in) with the ET-D75LE8, 4:3 aspect ratio	
	3.05–15.24 m (120–600 in) with the ET-D75LE95, 16:10 aspect ratio	3.05–15.24 m (120–600 in) with the ET-D75LE95, 4:3 aspect ratio	
Brightness	20,000 lm / 21,000 lm (Center)		
Center-to-corner uniformity	90 %		
Contrast	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)		
Resolution	1920 × 1200 pixels	1400 × 1050 pixels	
Scanning frequency	SD-SDI	SMPTTE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480/60i, 576/50i	
	HD-SDI	SMPTTE ST 292 compliant, [YPbPr 4:2:2 10-bit] 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24f, 1080/30p	
	Dual-link HD-SDI	SMPTTE ST 372 compliant, [YPbPr 4:2:2 10-bit] 1080/50p, 1080/60p [RGB 4:4:4 12-bit/10-bit] 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24f, 1080/30p, 2048 × 1080/24p, [X'Y'Z'] 4:4:4 12-bit] 2048 × 1080/24p	
	3G-SDI	SMPTTE ST 424 compliant, [RGB 4:4:4 12-bit/10-bit] 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24f, 1080/30p, 2048 × 1080/24p, 2048 × 1080/25p, 2048 × 1080/30p, [YPbPr 4:2:2 10-bit] 1080/60p, 1080/50p, 2048 × 1080/48p, 2048 × 1080/50p, 2048 × 1080/60p, [X'Y'Z'] 4:4:4 12-bit] 2048 × 1080/24p, 2048 × 1080/25p, 2048 × 1080/30p	
	Dual-link 3G-SDI	SMPTTE ST 425 compliant, [YPbPr 4:4:4 12-bit/10-bit] 1080/60p, 1080/50p, 2048 × 1080/60p, 2048 × 1080/50p, 2048 × 1080/48p, [RGB 4:4:4 12-bit/10-bit] 1080/60p, 1080/50p, 2048 × 1080/60p, 2048 × 1080/50p, 2048 × 1080/48p	
	HDMI/DVI-D/DIGITAL LINK	480/60i*, 576/50i**, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24f, 1080/25p, 1080/30p, 1080/60p, 1080/50p, 640 × 400–WUXGA*5 (1920 × 1200) (compatible with non-interlaced signals only), dot clock: 25–162 MHz	
	RGB	fh: 15–100 kHz, fv: 24–120 Hz, dot clock: fh: 15–100 kHz, fv: 24–120 Hz, dot clock: 162 MHz or less	
	YPbPr (YCbCr)	fh: 15.73 kHz, fv: 59.94 Hz [525i (480i)], fh: 15.63 kHz, fv: 50 Hz [625i (576i)], fh: 31.47 kHz, fv: 59.94 Hz [525p (480p)], fh: 31.25 kHz, fv: 50 Hz [625p (576p)], fh: 45.00 kHz, fv: 60 Hz [750 (720)/60p], fh: 37.50 kHz, fv: 50 Hz [750 (720)/50p], fh: 33.75 kHz, fv: 60 Hz [1125 (1080)/60i], fh: 28.13 kHz, fv: 50 Hz [1125 (1080)/50i], fh: 28.13 kHz, fv: 25 Hz [1125 (1080)/25p], fh: 27.00 kHz, fv: 24 Hz [1125 (1080)/24p], fh: 27.00 kHz, fv: 48 Hz [1125 (1080)/24f], fh: 33.75 kHz, fv: 30 Hz [1125 (1080)/30p], fh: 67.50 kHz, fv: 60 Hz [1125 (1080)/60p], fh: 56.25 kHz, fv: 50 Hz [1125 (1080)/50p]	
	Video/VC	fh: 15.73 kHz, fv: 59.94 Hz (NTSC/NTSC4.43/PAL-M/PAL60), fh: 15.63 kHz, fv: 50 Hz (PAL/PAL-N/SECAM)	
	Optical axis shift#6	Vertical (from center of screen)	±55 % (±44 % with ET-D75LE6, +68 % – +78 % with ET-D75LE95) (powered)
Horizontal (from center of screen)		±20 % (±15 % with ET-D75LE6, ±12 % with ET-D75LE95) (powered)	
Keystone correction range with optional Upgrade Kit ET-UK20	Vertical: ±40 ° (±22 ° with ET-D75LE50, ±28 ° with ET-D75LE6), Horizontal: ±15 °		±50 % (±40 % with ET-D75LE6, +67 % – +71 % with ET-D75LE95) (powered)
	Vertical: ±45 ° (±40 ° with ET-D75LE10/20, ±22 ° with ET-D75LE50, ±28 ° with ET-D75LE6), Horizontal: ±40 ° (±15 ° with ET-D75LE50/6), Up to a total of ±55 ° during simultaneous horizontal and vertical correction		±30 % (±20 % with ET-D75LE6, ±8 % with ET-D75LE95) (powered)
Installation	Horizontal/vertical, free 360-degree installation		
Terminals	SDI 1 IN	BNC × 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link-A), Dual-link 3G-SDI (Link 1)	
	SDI 2 IN	BNC × 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link-B), Dual-link 3G-SDI (Link 2)	
	HDMI IN	HDMI × 1 (Deep Color, compatible with HDCP)	
	DVI-D IN	DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP) (Single-link only)	
	RGB 1 IN	RGB × 1 (BNC × 5): RGB/YPbPr/YC/VIDEO	
	RGB 2 IN	D-sub HD 15-pin (female) × 1: RGB/YPbPr	
	MULTI PROJECTOR SYNC IN / 3D SYNC 1 IN/OUT	BNC × 1	
	MULTI PROJECTOR SYNC OUT / 3D SYNC 2 OUT	BNC × 1	
	SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)	
	SERIAL OUT	D-sub 9-pin (male) × 1 for link control	
	REMOTE 1 IN / OUT	M3 × 1 for wired remote control, link control	
	REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)	
	DC OUT	USB (Type A) × 2, DC 5 V, total of 2 A	
	LAN/DIGITAL LINK	RJ-45 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PjLink™ (Class 2), Deep Color, HDCP	
	Dimensions (W × H × D)	598 × 270 × 725 mm (23 17/32" × 10 5/8" × 28 17/32") (not including protruding parts)	
	Weight	49.0 kg (108 lbs)	
Operation noise*7	46 dB		
Cabinet materials	Molded plastic		
Operating environment	Operating temperature: 0–50 °C (32–122 °F)**; Operating humidity: 10–80 % (no condensation)		
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control		

*1 When Standby Mode is set to ECO, network functions such as power on over LAN will not operate. Additionally, only certain commands can be received for external control using the serial terminal. *2 Refresh rate varies depending on scanning frequency. *3 Class 3R for North America. *4 Only compatible with dot-clock frequency of 27 MHz (pixel repetition signal). *5 WUXGA resolution is supported when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). *6 Optical axis shift is not supported on the ET-D75LE50. *7 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *8 Operating temperature is 0–45 °C (32–113 °F) when used in locations from 1,400 m to 4,200 m (4,593 ft to 13,779 ft) above sea level.

Optional Accessories

- **Fixed-Focus Lens**
ET-D75LE50 / ET-D75LE95
- **Zoom Lens**
ET-D75LE6 / ET-D75LE10
ET-D75LE20 / ET-D75LE30
ET-D75LE40 / ET-D75LE8

- **Ceiling Mount Bracket for High Ceilings**
ET-PKD520H
- **Ceiling Mount Bracket for Low Ceilings**
ET-PKD520S

- **Projector Mount Bracket**
ET-PKD520B
- **Geometry Manager Pro Software Upgrade Kit**
ET-UK20

- **Auto Screen Adjustment Upgrade Kit**
ET-CUK10 / ET-CUK10P
- **Early Warning Software**
ET-SWA100 Series

- **Stepping Motor Kit**
ET-D75MKS10

* Projector may require the latest firmware update. Calibration is required each time the lens is mounted.

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