

Ultra-High-Brightness 3-Chip DLP™ SOLID SHINE Laser Projectors for Large Venues and Rental



PT-RZ31K Series

	PT-RZ31K	PT-RS30K
Brightness	28,000 lm (Center), 27,000 lm	
Resolution	WUXGA	SXGA+
Contrast	20,000:1	

Original Technology for Elite Performance

- Combines 3-Chip DLP™ with Proprietary SOLID SHINE Laser Technology for Bright and Immersive Picture Quality
- Accurate Rec. 709-compliant Color-space Reproduction
- Dual-Drive Laser Optical Engine Ensures Reliable 24/7 Operation
- Minimal Maintenance Required Under Continuous Operation*1
- Dustproof Design Featuring Hermetically Sealed Laser Modules, Long-life Eco Filter, and Refined Air-intake System
- Efficient Cooling System for Stable Operation in Ambient Temperatures of Up to 45 °C (113 °F)*2

Magnificent Image Quality and Reliable Operation

- 28,000 lm*3 Brightness from an Exceptionally Compact and Lightweight Body
- Real Motion Processor 120 Hz Frame-creation Technology for Smooth Motion Reproduction
- Dynamic Contrast Laser Light-source Modulation Achieves High 20,000:1 Contrast*4
- Detail Clarity Processor 5 Clarifies and Enhances Fine Details with Advanced Processing Algorithm
- System Daylight View 3 Improves Color Perception in Bright Environments and in Mapping Applications
- Quiet Operation with Original Cooling Technology

Versatile System and Installation Flexibility

- Free 360-degree Installation (Vertical and Horizontal)
- Shares Optional Lenses with Panasonic 3-Chip DLP™ Projector Family
- DIGITAL LINK Supports Transmission of Uncompressed Full HD Video and Control Commands Through a Single CAT 5e or Higher STP Cable for Distances of Up to 150 m (492 ft)*5
- Multi-Screen Support System Seamlessly Connects Multiple Screens Including Edge Blending, Color Matching, and Digital Image Enlarging
- Multi-Unit Brightness and Color Control
- Geometric Adjustment for Specially Shaped Screens
- Geometry Manager Pro and Optional Upgrade Kit (ET-UK20 Series)
- Auto Screen Adjustment Upgrade Kit (ET-CUK10 Series*6)

*1 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. *2 Light output may be reduced to protect certain projectors depending on environmental conditions. *3 Luminance measured at center of screen. *4 Dynamic Contrast set to 3. *5 150 m (492 ft) transmission available only in Long Reach Mode with the optional ET-YFB200G DIGITAL LINK Switcher. Signal resolution is limited to 1080/60p (dot-clock frequency 148.5 MHz) and below. *6 Available worldwide except the United States.

Specifications (Tentative)

Model	PT-RZ31K	PT-RS30K
Power supply	AC 200–240 V, 50/60 Hz; AC 100–120 V, 50/60 Hz (brightness is restricted with lower voltage)	
Power consumption	TBD	
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*1	
Lens	Optional (no lens included with this model)	
Light source	Laser diodes	
Screen size (diagonal)	1.78–25.4 m (70–1,000 in) with 16:10 aspect ratio 1.78–15.24 m (70–600 in) with the ET-D75LE8, 16:10 aspect ratio 3.05–15.24 m (120–600 in) with the ET-D75LE90, 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, 4:3 aspect ratio 3.05–15.24 m (120–600 in) with the ET-D75LE90, 4:3 aspect ratio
Brightness	28,000 lm (Center)/27,000 lm ²	
Center-to-corner uniformity ²	90 %	
Contrast ²	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] 480i, 576i
	HD-SDI	SMPTTE ST 292 compliant, [YPbPr 4:2:2 10-bit] 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p
	Dual-link HD-SDI	SMPTTE ST 372 compliant, [RGB 4:4:4 12-bit/10-bit] 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p, 2048 × 1080/24p, 2048 × 1080/24sF, [K'Y'Z' 4:4:4 12-bit] 2048 × 1080/24p, 2048 × 1080/24sF
	3G-SDI	SMPTTE ST 424 compliant, [RGB 4:4:4 12-bit/10-bit] 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p, [YPbPr 4:2:2 10-bit] 1080/60p, 1080/50p
	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	Compatible with HDCP, 480i ³ , 576i ³ , 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, 640 × 400–WUXGA ⁴ (1920 × 1200) (compatible with non-interlaced signals only), dot clock: 25–162 MHz
	RGB	fh: 15–100 kHz, fv: 24–120 Hz, dot clock: 162 MHz or lower
	YPbPr (YCbCr)	fh: 15.73 kHz, fv: 59.94 Hz [480i (525i)], fh: 15.63 kHz, fv: 50 Hz [576i (625i)], fh: 31.47 kHz, fv: 59.94 Hz [480p (525p)], fh: 31.25 kHz, fv: 50 Hz [576p (625p)], fh: 45.00 kHz, fv: 60 Hz [720 (750)/60p], fh: 37.50 kHz, fv: 50 Hz [720 (750)/50p], fh: 33.75 kHz, fv: 60 Hz [1080 (1125)/60i], fh: 28.13 kHz, fv: 50 Hz [1080 (1125)/50i], fh: 28.13 kHz, fv: 25 Hz [1080 (1125)/25p], fh: 27.00 kHz, fv: 48 Hz [1080 (1125)/24sF], fh: 33.75 kHz, fv: 30 Hz [1080 (1125)/30p], fh: 67.50 kHz, fv: 60 Hz [1080 (1125)/60p], fh: 56.25 kHz, fv: 50 Hz [1080 (1125)/50p]
	Video/YC	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 ⁵	Vertical (from center of screen) Horizontal (from center of screen)
Keystone correction range	Vertical: ±40 ° (±22 ° with ET-D75LE50, ±28 ° with ET-D75LE6, +5 ° with ET-D75LE90), Horizontal: ±15 ° (0 ° with ET-D75LE90)	
Keystone correction range with optional Upgrade Kit ET-UK20	Vertical: ±45 ° (±40 ° with ET-D75LE10/20, ±22 ° with ET-D75LE50, ±28 ° with ET-D75LE6, +5 ° with ET-D75LE90), Horizontal: ±40 ° (±15 ° with ET-D75LE50/6, 0 ° with ET-D75LE90), Up to a total of ±55 ° during simultaneous horizontal and vertical correction.	
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 19-pin × 1 (Deep Color, compatible with HDCP)
	DVI-D IN	DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP)
	RGB 1 IN	RGB × 1 (BNC × 5): RGB/YPbPr/YCbCr/YC/VIDEO
	RGB 2 IN	D-sub HD 15-pin (female) × 1: RGB/YPbPr/YCbCr
	SYNC 1 IN/OUT	BNC × 1: 3D timing signal
	SYNC 2 OUT	BNC × 1: 3D timing signal
	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	M3 × 1 for wired remote control, link control
	REMOTE 1 OUT	M3 × 1 for wired remote control, link control
	REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)
	LAN/DIGITAL LINK	RJ-45 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PjLink™ (class 1), Deep Color, HDCP
Cabinet materials	TBD	
Dimensions (W × H × D)	TBD	
Weight ⁶	TBD	
Operation noise ²	TBD	
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, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit and ET-CUK10 ⁸ Auto Screen Adjustment Kit)	

*1 Refresh-rate varies depending on vertical scanning frequency. *2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *3 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal). *4 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). *5 Optical axis shift is not supported on the ET-D75LE50. *6 Average value. May differ depending on the actual unit. *7 Light source brightness may decrease depending on operating temperature. When projector is operating at high temperature or at high altitude, brightness will decrease correspondingly. *8 Available worldwide except in the United States.

Optional Accessories

- **Fixed-Focus Lens**
ET-D75LE50 / ET-D75LE90
- **Zoom Lens**
ET-D75LE6 / ET-D75LE10
ET-D75LE20 / ET-D75LE30
ET-D75LE40 / ET-D75LE8
- **Geometry Manager Pro Software Upgrade Kit**
ET-UK20 Series
- **Auto Screen Adjustment Upgrade Kit**
ET-CUK10 Series
(except in the United States)
- **Early Warning Software**
ET-SWA100 Series
- **DIGITAL LINK Switcher**
ET-YFB200G
- **Digital Interface Box**
ET-YFB100G
- **Ceiling Mount Bracket**
TBD
- **Projector Mount Bracket**
TBD
- **Projector Frame**
TBD
- **Replacement Filter Unit**
TBD
- **Smoke Cut Filter**
TBD



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