

Ultra-High-Brightness 3-Chip DLP™ SOLID SHINE Laser Projectors Excel in 30,000-Im Range



PT-RZ31K Series		
	PT-RZ31K	PT-RS30K
Brightness	31,000 Im (Center), 30,000 Im*	
Resolution	WUXGA	SXGA+
Contrast	20,000:1	

* Measured according to strict international ISO 21118 standards

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

- 31,000 Im*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
- Eyebolt Multi-rigging Compatibility
- Multiple Projector Stacking Available without Frame
- Convenient One-Box Design
- Multi-Screen Support System Seamlessly Connects Multiple Screens
- Multi-Unit Brightness and Color Control
- Geometry Manager Pro and Optional Upgrade Kit (ET-UK20 Series)

*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 in High Mode. Operation in High Mode may reduce maintenance timing in comparison to use in Normal Mode. *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.

Specifications (Tentative)

Model	PT-RZ31K	PT-RS30K	
Power supply	AC 200–240 V, 50/60 Hz; AC 100–200 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-D75LE95, 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-D75LE95, 4:3 aspect ratio	
Brightness	31,000 lm (Center)/30,000 lm ² (High Mode)*3		
Center-to-corner uniformity*2	90 %		
Contrast*2	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)		
Resolution	1920 × 1200 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 × 1080/25p, 2048 × 1080/30p, 2048 × 1080/30p	
	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, 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, 2048 × 1080/50p, 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	Compatible with HDCP, 480*4, 576i*4, 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*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: 20 MHz–162 MHz	
	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: 24 Hz [1080 (1125)/24p], 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*6	Vertical (from center of screen) Horizontal (from center of screen)	±55 % (±44 % with ET-D75LE6, +68 % – +78 % with ET-D75LE95) (powered) ±20 % (±15 % with ET-D75LE6, ±12 % with ET-D75LE95) (powered) ±50 % (±40 % with ET-D75LE6, +67 % – +71 % with ET-D75LE95) (powered) ±30 % (±20 % with ET-D75LE6, ±8 % with ET-D75LE95) (powered)
Keystone correction range	Vertical: ±40 ° (±22 ° with ET-D75LE50, ±28 ° with ET-D75LE6), Horizontal: ±15 °		
Keystone correction range with optional Upgrade Kit ET-UK20	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.		
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	
	SYNC 1 IN/OUT / MULTI PROJECTOR SYNC IN	BNC × 1	
	SYNC 2 OUT / MULTI PROJECTOR SYNC 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)	
	LAN/DIGITAL LINK	RJ-45 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PLink™ (class 1), Deep Color, HDCP	
	DC OUT	USB Type A × 2 for power supply (DC 5 V, max 900 mA)	
	Cabinet materials	Metal (Partly molded plastic)	
	Dimensions (W × H × D)	706 mm × 420 mm × 1,290 mm (27 25/32" × 16 17/32" × 50 25/32") (with protrusion parts)	
	Weight*7	Approx. 79 kg (174 lbs.)	
Operation noise*2	TBD		
Operating environment	Operating temperature: 0–45 °C (32–113 °F)*8, operating humidity: 10–80 % (no condensation) (TBD)		
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit), Smart PJ Control		

*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 Operation in High Mode may reduce maintenance timing in comparison to use in Normal Mode.

*4 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal). *5 WUXGA resolution is supported only 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 Average value. May differ depending on the actual unit. *8 When projector is operating at high altitude (1,400–2,700 m) [4,593–8,858 ft], operating temperature is 0–40 °C (32–104 °F). Light source brightness may decrease depending on operating temperature. When projector is operating at high temperature or at high altitude, brightness will decrease correspondingly.

Optional Accessories

- **Fixed-Focus Lens**
ET-D75LE50 / ET-D75LE95
- **Replacement Filter Unit**
ET-EMF330
- **Geometry Manager Pro Software Upgrade Kit**
ET-UK20 Series
- **DIGITAL LINK Switcher**
ET-YFB200G
- **Zoom Lens**
ET-D75LE6 / ET-D75LE10
ET-D75LE20 / ET-D75LE30
ET-D75LE40 / ET-D75LE8
- **Smoke Cut Filter**
ET-SFR330
- **Early Warning Software**
ET-SWA100 Series
- **Digital Interface Box**
ET-YFB100G

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