

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) | 24.1 mm (0.95 inches) diagonal (4:3 aspect ratio) | |
| | Display method DLP™ chip × 3, DLP™ projection system | | |
| | Pixels 6,912,000 (1920 × 1200 × 3) pixels | 4,410,000 (1400 × 1050 × 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 | 1400 × 1050 pixels | |
| Scanning frequency | SD-SDI | SMPTE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i, 576i | |
| | HD-SDI | SMPTE ST 292 compliant, [YPbPr 4:2:2 10-bit] 720/60p, 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sf, 1080/30p | |
| | Dual-link HD-SDI | SMPTE 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 × 1080/24sf, 2048 × 1080/30p | |
| | 3G-SDI | SMPTE 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 × 1080/60p, 2048 × 1080/25p, 2048 × 1080/30p | |
| | Dual-link 3G-SDI | SMPTE 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 ^{*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 (625p)], 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: 67.50 kHz, fV: 60 Hz [1080 (1125)/50p], 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) ±55 % (±44 % with ET-D75LE6, +68 % – +78 % with ET-D75LE95) (powered) | ±50 % (±40 % with ET-D75LE6, +67 % – +71 % with ET-D75LE95) (powered) |
| | Horizontal (from center of screen) ±20 % (±15 % with ET-D75LE6, ±12 % 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/VC/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, P.J.Link™ (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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