

PT-RQ13K/RZ12K Series

3-Chip DLP™ Projectors

Available from Autumn 2015 (RQ13K)
Available from Summer 2015 (RZ12K/RS11K)

Specifications (Tentative)

Model	PT-DZ21K2	PT-DS20K2	PT-DW17K2	PT-DZ16K2
Power supply	200–240 V AC, 50/60 Hz			
Power consumption	<2300 W (TBD) (0.3 W with Standby Mode set to Eco ¹ , 4 W with Standby Mode set to Normal)			
DLP™ chip	Panel size 24.4 mm (0.95 in) diagonal (16:10 aspect ratio) 24.1 mm (0.95 in) diagonal (4:3 aspect ratio) 21.6 mm (0.85 in) diagonal (16:9 aspect ratio) 24.1 mm (0.95 in) diagonal (16:9 aspect ratio)			
Display method	DLP™ chip × 3, DLP™ projection system			
Pixels	2,304,000 (1080 × 1200) × 3, total of 6,912,000 pixels 1,470,000 (1400 × 1050) × 3, total of 4,410,000 pixels 1,049,088 (1366 × 768) × 3, total of 3,147,264 pixels 2,073,600 (1920 × 1080) × 3, total of 6,220,800 pixels			
Refresh Rate	120 Hz ² 60 Hz ² 120 Hz ²			
Lens	Optional powered zoom and fixed-focus lenses			
Lamp	Normal UHM lamp × 4, replacement cycle of up to 3,000 hours ³ Portrait UHM lamp × 4, replacement cycle of up to 700 hours (TBD)			
Screen size (diagonal)	1.78–25.4 m (70–1000 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 3.05–15.24 m (120–600 in) with the ET-D75LE90, 16:10 aspect ratio 1.78–25.4 m (70–1000 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 3.05–15.24 m (120–600 in) with the ET-D75LE90, 4:3 aspect ratio 1.78–25.4 m (70–1000 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 3.05–15.24 m (120–600 in) with the ET-D75LE90, 16:9 aspect ratio			
Brightness ⁴	20,000 lm 17,000 lm 16,000 lm			
Center-to-corner uniformity ⁴	90 %			
Contrast ⁴	10,000:1 (full on/off, with dynamic iris set to "3")			
Resolution	1920 × 1200 pixels 1400 × 1050 pixels 1366 × 768 pixels 1920 × 1080 pixels			
Scanning frequency	SDI SD-SDI SMPTE ST 295 compliant, [YCbCr] 4:2:2 10-bit 480i, 576i HD-SDI SMPTE ST 292 compliant, [YCbCr] 4:2:2 10-bit 720p/50p, 720p/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24f, 1080/30p 3G-SDI SMPTE ST 424 compliant, [YCbCr] 4:2:2 10-bit 1080/50i, 1080/60i, [RGB] 4:4:4 12-bit/10-bit 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24f, 1080/30p Dual link HD-SDI SMPTE ST 372 compliant, [RGB] 4:4:4 12-bit/10-bit 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24f, 1080/30p Dual link 3G-SDI SMPTE ST 425 compliant, [YCbCr] 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 480p, 576p, 720p/50p, 720p/60p, 1080/60i, 1080/50i, 1080/24p, 1080/24f, 1080/25p, 1080/30p, 1080/60p, 1080/50p, VGA (640 × 480)–WUXGA ⁴ (1920 × 1200), compatible with non-Interlaced signals only, dot clock: 25–162 MHz			
HDMI/DVI-D/DIGITAL LINK	DVI-D/HDMI simultaneous input RGB R: 15–120 kHz, IV: 24–120 kHz, dot clock: 13.5–162 MHz Y/Pr/Pb (YCbCr) R: 15.75 kHz, IV: 60 Hz (480i [525i]), R: 37.50 kHz, IV: 50 Hz (720i [750i/50p]), R: 27.00 kHz, IV: 24 Hz (1080i [1125i/24p]), R: 31.50 kHz, IV: 60 Hz (480p [625p]), R: 33.75 kHz, IV: 60 Hz (1035i [1125i/60p]), R: 27.00 kHz, IV: 60 Hz (1080i [1125i/60p]), R: 15.63 kHz, IV: 50 Hz (576i [625i]), R: 33.75 kHz, IV: 60 Hz (1080i [1125i/60p]), R: 31.25 kHz, IV: 50 Hz (675p [825p]), R: 28.13 kHz, IV: 50 Hz (1080i [1125i/50p]), R: 67.50 kHz, IV: 60 Hz (1080i [1125i/60p]), R: 45.00 kHz, IV: 60 Hz (720i [750i/60p]), R: 28.13 kHz, IV: 25 Hz (1080i [1125i/25p]), R: 56.25 kHz, IV: 50 Hz (1080i [1125i/50p]) Video / Y/C R: 15.75 kHz/15.63 kHz, IV: 50 Hz/60 Hz [NTSC/NTSC43PAL/PAL60PAL/NPAL-M/SECAM]			
Optical axis shift ⁵	Vertical (from center of screen) ±5.5 % (±4.4 % with the ET-D75LE6, +73 – 78 % with the D75LE90 (powered)) ±5.0 % (±4.0 % with the ET-D75LE6, +71 % (fixed) with the D75LE90 (powered)) ±7.0 % (±6.0 % with the ET-D75LE6, +78 – 96 % with the D75LE90 (powered)) ±6.0 % (±5.0 % with the ET-D75LE6, +75 – 88 % with the D75LE90 (powered)) Horizontal (from center of screen) ±2.0 % (±1.5 % with the ET-D75LE6, ±0 % with the D75LE90 (powered)) ±3.0 % (±2.0 % with the ET-D75LE6, ±0 % (non-movable) with the D75LE90 (powered)) ±2.0 % (±2.0 % with the ET-D75LE6, -13 – +27 % (±-; rightward) with the D75LE90 (powered)) ±2.0 % (±1.5 % with the ET-D75LE6, -12 – +14 % with the D75LE90 (powered))			
Keystone correction range	Vertical: ±40 °, horizontal: ±15 °			
Keystone correction range with the optional upgrade kit ET-UK20	Vertical: ±45 °, horizontal: ±40 °			
Installation	Ceiling/floor, front/rear, portrait			
Terminals	SDI IN BNC × 2 (3G/HD/SD-SDI) DVI-D IN DVI-D 24-pin × 1 (DVI-D compliant, compatible with HDCP, compatible with single link only) HDMI IN HDMI 19-pin × 1 (Deep Color, compatible with HDCP) RGB 1 IN BNC × 5 (RGB/Y/Pr/Pb/V/DC/VC × 1) RGB 2 IN D-sub HD 15-pin (female) × 1 (RGB/Y/Pr/Pb × 1) 3D SYNC IN/OUT BNC × 1 (3D timing signal) 3D SYNC 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 REMOTE 1 OUT M3 × 1 for link control (for wired remote 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, 10/100Base-TX, compatible with Art-Net, PLink™ (class 1), Deep Color, HDCP			
Cabinet materials	Metal: plastic			
Dimensions (W × H × D)	620 × 255 × 720 mm (24 1/2" × 10 1/8" × 28 3/4") (optional lens, legs and lens cover not included)			
Weight ⁶	Approximately 43 kg (94.8 lbs) (optional lens not included)			
Operation noise ⁴	TBD			
Operating environment	Operating temperature: 0–45 °C (32–113 °F) ⁷ , operating humidity: 10–80 % (no condensation)			
Applicable software	Logo Transfer Software, Multi Projector Monitoring & Control Software, Geometry Manager Pro (ET-UK20 Upgrade Kit and ET-CUK10 ⁸ Auto Screen Adjustment Kit) Logo Transfer Software, Multi Projector Monitoring & Control Software			
Supplied accessories	Power cord with secure lock, wireless/wired remote control unit, batteries (R6/AA type × 2), software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software) (x 1)			

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 This value (maximum, 50 % brightness) is calculated by continuously turning the lamp on for 2 hours and off for 0.25 hours. The lamp replacement cycle will decrease if the lamp is turned on/off more frequently, or if it is left on for longer intervals. ⁴ Measurement, measuring conditions, and method of notation all comply with ISO 21116 international standards. ⁵ WUXGA resolution is supported only when the signals are compliant with VESA DVI-99 (Coordinated Video Timing-Reduced Blanking). ⁶ Optical axis shift is not supported on the ET-D75LE5. ⁷ Average value. May differ depending on the actual unit. ⁸ Operating temperature range is 0–40 °C (32–104 °F) when Fan Control is set to High Altitude Mode for altitudes 1,400–2,700 m (4,593–8,858 ft) above sea level. With ET-LAD520P/ET-LAD520P* mounted for Portrait Mode, operating temperature range is 0–40 °C (32–104 °F). ⁹ Available worldwide except in the United States.

Optional Accessories

- Fixed-Focus Lens
ET-D75LE50 (Short Throw)
ET-D75LE90 (Ultra Short Throw)
- Zoom Lens
ET-D75LE6 / ET-D75LE10 / ET-D75LE20
ET-D75LE30 / ET-D75LE40 / ET-D75LE8
- Geometry Manager Pro Software Upgrade Kit
ET-UK20
- Auto Screen Adjustment Upgrade Kit
ET-CUK10 (except in the United States)
- High-Ceiling Mount Bracket
ET-PKDS20H
- Low-Ceiling Mount Bracket
ET-PKDS20S
- Bracket Assembly
ET-PKDS20B
- Projector Frame
ET-PFD510
- Replacement Lamp Unit
ET-LAD520 (one bulb)
ET-LAD520P (a set of four bulbs)
ET-LAD520B (for portrait mode, one bulb)
ET-LAD520PF (for portrait mode, a set of four bulbs)
- Replacement Filter
ET-EMF510
- Smoke Cut Filter
Available as Service Parts
- Early Warning Software
ET-SWA100 Series
- Digital Interface Switcher/Box
ET-YFB200G/100G

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All information included here is valid as of February 2015.

PT-DZ21K2PRE1 Printed in Japan.

Introducing the World's Lightest 3-Chip DLP™ Laser Projector with 4K+ Resolution



PT-RQ13K / RZ12K Series			
	PT-RQ13K	PT-RZ12K	PT-RS11K
Brightness	10,000 lm	12,000 lm	12,000 lm
Resolution	Beyond 4K	WUXGA	SXGA+
Contrast	20,000:1	20,000:1	20,000:1

Immersive 4K+ Image Quality

- Quad Pixel Drive Produces Industry's First Beyond 4K Screen Resolution (RQ13K Only)
- Real Motion Processor Combines Frame-Creation and High-Speed Processing for Fluid Motion Reproduction (Maximum Processing Rate: 240 Hz for RQ13K, 120 Hz for RZ12K/RS11K)
- Impressive 10,000 lm Brightness (RZ12K/RS11K: 12,000 lm)
- World's Lightest 3-Chip DLP™ Projector at 43 kg (94.8 lbs)
- Dynamic Contrast Achieves 20,000:1¹ Contrast Ratio by Controlling Laser Light
- Next-Generation Detail Clarity Processor Gives Natural Texture to the Finest Details
- System Daylight View 3 for Enhanced Color Perception in Bright Rooms and Mapping Applications
- DICOM Simulation Mode for Medical Presentations and Training²
- Rec. 709 Mode Reproduces Colors Accurately for HDTV Projection

Lower Running Costs, Greater Reliability

- Extremely Long 20,000-hour Light-Source Life³
- New Liquid Cooling System Enables Quiet Operation
- Stable Operation in Ambient Temperatures of Up to 45 °C (113 °F)⁴
- Consistent Color Reproduction With No Image Deterioration Over Time
- Laser Light-Source Engine Allows 24/7 Operation
- Dust-Resistant Optical Block
- Wide Powered Lens-Shift Range

System and Installation Flexibility

- Vertical, Horizontal and Tilting 360-Degree Projection Enabled by Laser Light Source
- Multi-Screen Support Seamlessly Joins Screens with Edge Blending, Color Matching, and Multi-Screen Processing

- Geometric Adjustment for Projection on Curved or Spherical Surfaces
- Compatible with Optional Upgrade Kit (ET-UK20) and Auto Screen Adjustment (ET-CUK10)⁵ Featuring Geometry Manager Pro
- Multi-Unit Brightness Control
- Compatible with Panasonic Multi Projector Monitoring & Control Software
- Single-Cable DIGITAL LINK Connection Transmits Video, Audio, and Control Signals for Up to 100 m
- Compatible with Art-Net DMX Lighting Control Protocol
- Abundant Terminals Including 3G-SDI, DIGITAL LINK, DVI-D, and HDMI (RQ13K Requires Optional Terminal Boards for DVI-D and HDMI)
- Shares Common Lenses (Including Ultra-Short Throw ET-D75LE90) with Panasonic 3-Chip DLP™ Projector Range

¹ Full on/off, with Dynamic Contrast set to "3". ² This product is not a medical instrument. Do not use for actual medical diagnosis. ³ Usage environment may affect lifespan of light source. ⁴ Light output may be decreased to protect the projector depending on environmental conditions. ⁵ Available worldwide except in the United States.