

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 20,000:1*¹ 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 Training*²
- Rec. 709 Mode Reproduces Colors Accurately for HDTV Projection

Lower Running Costs, Greater Reliability

- Extremely Long 20,000-hour Light-Source Life*³
- 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

Specifications (Tentative)

Model	PT-R013K		PT-R212K	PT-RS11K
Power supply	AC 200–240 V, 50/60 Hz			
Power consumption	TBD			
DLP™ chip	Panel size	22.9 mm (0.9 inches) diagonal (16:10 aspect ratio)	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	49,152,000 (12,288,000 x 4) pixels when Quad Pixel Drive set to ON, 12,288,000 (2560 x 1600 x 3) pixels when Quad Pixel Drive set to OFF	6,912,000 (1920 x 1200 x 3) pixels	4,410,000 (1400 x 1050 x 3) pixels
Refresh rate	240 Hz ^{*1}		120 Hz ^{*1}	
Lens	Optional (no lens included with this model), powered zoom, powered focus			
Light source	Dual-laser bank system, 50 % of brightness at 20,000 hours			
Screen size (diagonal)	1.78–25.4 m (70–1000 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 (70–1000 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 (70–1000 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 ^{*2}	10,000 lm (AC 200–240 V)		12,000 lm (AC 200–240 V)	
Center-to-corner uniformity ^{*2}	90 %			
Contrast ^{*2}	20,000:1 (Full On/Full Off, with Dynamic Contrast On)			
Resolution	5120 x 2880 pixels (Quad Pixel Drive: ON, with 3840 x 2160 RGB signal input)		1920 x 1200 pixels (with RGB signal input)	1400 x 1050 pixels (with RGB signal input)
Scanning frequency	SDI	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	
		HD-SDI	SMPTTE ST 292 compliant, [YPbPr 4:2:2 10-bit] 720/60p, 720/50p, 1035/60i, 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sf, 1080/30p	
		SD-SDI	SMPTTE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i, 576i	
		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, [X'Y'Z'] 4:4:4 12-bit] 2048 x 1080/24p, 2048 x 1080/24sf	
		Dual link 3G-SDI	SMPTTE ST 425 compliant, [YPbPr 4:4:4 12-bit/10-bit] 1080/60p, 1080/50p, 2048 x 1080/60p, 2048 x 1080/50p, 2048 x 1080/48p, [RGB 4:4:4 12-bit/10-bit] 1080/60p, 1080/50p, 2048 x 1080/60p, 2048 x 1080/50p, 2048 x 1080/48p	
		Quad link HD-SDI	SMPTTE ST 425 compliant	
		Quad link 3G-SDI	SMPTTE ST 425 compliant	
		HDMI/DVI-D	—	
		RGB	—	
		YPbPr (YCbCr)	—	
	Video/YC	—		
Optical axis shift ^{*5}	Vertical (from center of screen)	±68 % (±56 % with the ET-D75LE6, +74 % – +84 % with the ET-D75LE90) (powered)		
	Horizontal (from center of screen)	±29 % (±19 % with the ET-D75LE6, +16 % – -12 % with the ET-D75LE90) (powered)		
Keystone correction range	Vertical ±40 ^{**6} , horizontal ±15 [°] /Vertical ±45 [°] , horizontal ±40 [°] (with the ET-UK20) ^{*7}			
Installation	Horizontal/vertical, free 360-degree installation			
Terminals	SDI 1 IN	BNC × 1: 3G/HD/SD-SDI input, Dual-link input (LINK-A), Quad-link input (Sub Image)		
	SDI 2 IN	BNC × 1: 3G/HD/SD-SDI input, Dual-link input (LINK-B), Quad-link input (Sub Image 2)		
	SDI 3 IN	BNC × 1: 3G/HD/SD-SDI input, Dual-link input (LINK-A), Quad-link input (Sub Image 3)		
	SDI 4 IN	BNC × 1: 3G/HD/SD-SDI input, Dual-link input (LINK-B), Quad-link input (Sub Image 4)		
	HDMI IN	— (Optional board)		
	DVI-D IN	— (Optional board)		
	RGB 1 IN	—		
	RGB 2 IN	—		
	3D Sync IN/OUT	—		
	3D Sync OUT	—		
	Frame Sync IN/OUT	BNC × 1: frame-synchronizing timing signal		
	Frame Sync OUT	BNC × 1: frame-synchronizing 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, PLink™ (class 1), Deep Color, HDCP			
Expansion Slot	x 2 (SLOT 1, SLOT 2)		—	
Cabinet materials	Molded plastic			
Dimensions (W × H × D)	578 × 324 × 710 mm (22 3/4" × 12 3/4" × 27 15/16") with legs and protruding parts (TBD) 578 × 270 × 710 mm (22 3/4" × 10 5/8" × 27 15/16") without optional lens, legs, or protruding parts (TBD)			
Weight ^{*8}	Approximately 46 kg (101.4 lbs.) (optional lens not included) (TBD) Approximately 43 kg (94.8 lbs.) (optional lens not included) (TBD)			
Operation noise ^{*2}	TBD			
Operating environment	Operating temperature: 0–45 °C (32–113 °F) ^{*9} , 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 ^{*10} Auto Screen Adjustment Kit)			
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)			

*1 Refresh rate varies depending on 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 Vertical ±22 ° with ET-D75LE50. Vertical 28 ° with ET-D75LE6. *7 Up to a total of ±55 ° during simultaneous horizontal and vertical correction. Vertical ±22 ° and horizontal ±15 ° with ET-D75LE50. Vertical ±28 ° and horizontal ±15 ° with ET-D75LE6. Vertical ±40 ° and horizontal ±40 ° with ET-D75LE10/D75LE20. *8 Average value. May differ depending on the actual unit. *9 0–40 °C (32–104 °F) when in High Altitude mode (1,400–2,700 m / 4,593–8,858 ft) *10 Available worldwide except in the United States.

Optional Accessories

■ Fixed-Focus Lens ET-D75LE50 / ET-D75LE90	■ Geometry Manager Pro Software Upgrade Kit ET-UK20	■ Early Warning Software ET-SWA100	■ Low-Ceiling Mount Bracket ET-PKD520S	■ Replacement Filter ET-EMF330	■ HDMI Input Board ET-MDNHM10
■ Zoom Lens ET-D75LE6 / ET-D75LE10 ET-D75LE20 / ET-D75LE30 ET-D75LE40 / ET-D75LE8	■ Auto Screen Adjustment Upgrade Kit ET-CUK10 (except in the United States)	■ Digital Interface Switcher/Box ET-YFB200G/100G	■ Bracket Assembly ET-PKD520B	■ Smoke Cut Filter (Replacement) ET-SFD330 (ET-SFR330)	■ SG-SDI Input Board TY-TBN03G
		■ High-Ceiling Mount Bracket ET-PKD520H	■ Projector Frame ET-PFD510	■ DVI-D Input Board ET-MDNDV10	

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