

Panasonic

PRELIMINARY BROCHURE

PT-RQ13K/PT-RZ12K/PT-RS11K



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PT-RQ13K/RZ12K Series

3-Chip DLP™ Projectors

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

Specifications (Tentative)

Model	PT-RQ13K	PT-RZ12K	PT-RS11K
Power supply	AC 200–240 V, 50/60 Hz		
Power consumption	TBD		
DLP™ chip	22.9 mm (0.9 inches) diagonal (16:10 aspect ratio)		
Panel size	24.4 mm (0.96 inches) diagonal (16:10 aspect ratio)		
Display method	DLP™ chip × 3, DLP™ projection system		
Pixels	49,152,000 (12,288,000 × 4) pixels when Quad Pixel Drive set to ON, 12,288,000 (2560 × 1600 × 3) pixels when Quad Pixel Drive set to OFF	6,912,000 (1920 × 1200 × 3) pixels	4,410,000 (1400 × 1050 × 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)		
Center-to-corner uniformity*2	90 %		
Contrast*2	20,000:1 (Full On/Full Off, with Dynamic Contrast On)		
Resolution	5120 × 2880 pixels (Quad Pixel Drive: ON, with 3840 × 2160 RGB signal input)	1920 × 1200 pixels (with RGB signal input)	1400 × 1050 pixels (with RGB signal input)
Scanning frequency	SDI 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, [YPbPr 4:2:2 10-bit] 1080/60p, 1080/50p HD-SDI SMPTE 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 SMPTE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i, 576i 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, [X'Y'Z' 4:4:4 12-bit] 2048 × 1080/24p, 2048 × 1080/24sf 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 Quad link HD-SDI SMPTE ST 425 compliant Quad link 3G-SDI SMPTE ST 425 compliant		
HDMI/DVI-D	Compatible with HDCP, 480i*3, 576i*3, 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sf, 1080/25e, 1080/30p, 1080/60p, 1080/50p, VGA (640 × 480)–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: 20–162 MHz		
YPbPr (YCbCr)	fh: 15.75 kHz, fv: 60 Hz [480i (525)], fh: 15.63 kHz, fv: 50 Hz [576i (625)], fh: 31.50 kHz, fv: 60 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 [1035 (1125/60i)], 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 (1125/25e)], 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/VC	fh: 15.75 kHz/15.63 kHz, fv: 60 Hz/50 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]		
Optical axis shift*5	Vertical (from center of screen) ±68 % (±56 % with the ET-D75LE6, +74 % – +84 % with the ET-D75LE90) (powered)	±55 % (±44 % with the ET-D75LE6, +73 % – +78 % with the ET-D75LE90) (powered)	±50 % (±40 % with the ET-D75LE6, +73 % [fixed] with the ET-D75LE90) (powered)
Horizontal (from center of screen)	±29 % (±19 % with the ET-D75LE6, +16 % – -12 % with the ET-D75LE90) (powered)	±20 % (±15 % with the ET-D75LE6, ±6 % with the ET-D75LE90) (powered)	±30 % (±20 % with the ET-D75LE6, fixed with the ET-D75LE90) (powered)
Keystone correction range	Vertical ±40 **6, horizontal ±15 **6/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 1)	BNC × 1: 3G/HD/SD-SDI input, Dual-link input (LINK-A)	
SDI 2 IN	BNC × 1: 3G/HD/SD-SDI input, Dual-link input (LINK-B), Quad-link input (Sub Image 2)	BNC × 1: 3G/HD/SD-SDI input, Dual-link input (LINK-B)	
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, PjLink™ (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-MDNV10

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All information included here is valid as of February 2015.

PT-RQ13KRZ12KPRES1 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 20,000:1*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

*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.