Panasonic
BUSINESS

PRELIMINARY
As of February 2016

PT-RZ970 Series
1-Chip DLP™ Projectors

Available from Summer 2016

Tentative

10,000-lumen-class Goes Ultra-Compact with New 1-Chip DLP™ Laser Phosphor Projectors

SOLID SHINE LASER

PICTURE BY DLP — A TEXAS INSTRUMENTS TECHNOLOGY

360°

24/7 Operation

DIGITAL LINK — SINGLE CABLE SOLUTION

PT-RZ970 Series			
	PT-RZ970	PT-RW930	PT-RX110
Resolution	WUXGA	WXGA	XGA
Brightness	10,000 lm (Center) 9,400 lm		10,400 lm (Center) 10,000 lm
Contrast	10,000:1		

High Picture Quality and Long-Lasting Reliability

- Combines 1-Chip DLP™ Imaging with Proprietary SOLID SHINE Laser Technology for Immersive Picture Quality at 10,000 lm*1
- Dynamic Light Control for 10,000:1*2 Contrast
- Accurate White Balance and Color Reproduction in Any Projection Mode
- Long-Lasting Picture Quality
- Detail Clarity Processor 3 Clarifies the Finest Details
- Daylight View 2 Ensures Sharp and Vivid Images in Bright Environments

Consistently Stable and Reliable Performance

- Dust-Resistant Structure with Airtight Optical Block
- Dual-Drive Laser Optical Engine Ensures Reliable 24/7 Operation with Light Source Failover Protection
- Up to 20,000 hours of Continuous Maintenance-free Operation*3
- Selectable Operational Modes Extend Service Life to Up to 10 Years*4
- Efficient Cooling System for Stable Operation in Ambient Temperatures of Up to 45 °C (113 °F)*5
- High-Speed Backup Input Switching

Versatile System and Installation Flexibility

- Shares Optional Lenses with Panasonic 1-Chip DLP™ Projector Family
- Compact Body and Free 360-degree Installation (Vertical and Horizontal)
- DIGITAL LINK Supports Transmission of Uncompressed Full HD Video, Audio, and Control Commands Through a Single CAT 5e or Higher STP Cable for Distances of Up to 150 m (492 ft)*6
- Geometric Adjustment for Specially Shaped Screens
- Geometry Manager Pro*7 and Optional Upgrade Kit (ET-UK20 Series)*8
- Auto Screen Adjustment Upgrade Kit (ET-CUK10 Series)*9

*1 PT-RZ970 and PT-RW930 features brightness of 10,000 lm (Center), PT-RX110 features 10,400 lm (Center). *2 With Dynamic Contrast Mode set to 3. *3 At 20,000 hours, projector brightness will have decreased to approximately half of its original level (Dynamic Contrast Mode: 3, Image Mode: Dynamic). Panasonic recommends cleaning or checkup at point of purchase after every 20,000-hour period (approximately). 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. *4 With Operating Mode set to Long Life 3, in which mode brightness is lowered to 1,900 lm. 24 hours/day x 365 days/year x 10 years = 87,600 hours. Replacement of parts other than the light source may be required in a shorter period. *5 Light output may be reduced to protect the projector depending on environmental conditions. *6 150 m (492 ft) transmission available in Long Reach Mode with the optional ET-YFB200G DIGITAL LINK Switcher only. Signal resolution is limited to 1080/60p (dot-clock frequency 148.5 MHz) and below. *7 Geometry Manager Pro software is available only with PT-RZ970. *8 ET-UK20 Series is available only with PT-RZ970. *9 ET-CUK10 Series is available only with PT-RZ970. Available worldwide except the United States.

Specifications (Tentative)

Model		PT-RZ970	PT-RW930	PT-RX110
Power supply		AC 100–240 V, 50/60 Hz		
Power consumption		TBD		
DLP™ chip	Panel size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)	16.5 mm (0.65 in) diagonal (16:10 aspect ratio)	17.8 mm (0.7 in) diagonal (4:3 aspect ratio)
	Display method	DLP™ chip × 1, DLP™ projection system		
	Pixels	2,304,000 (1920 x 1200) pixels	1,024,000 (1280 x 800) pixels	786,432 (1024 x 768) pixels
Lens		Powered zoom (throw ratio 1.7–2.4:1), powered focus F 1.7–1.9, f 25.6–35.7 mm	Powered zoom (throw ratio 1.8–2.5:1), powered focus F 1.7–1.9, f 25.6–35.7 mm	
Light source		Laser diodes laser Class 1 (Class 3R for US models), light source life*1: 20,000 hours (Normal Mode) / 24,000 hours (Eco Mode). At this time the brightness will have decreased to approximately half of its original level.		
Screen size (diagonal)		1.27–15.24 m (50–600 in), 1.27–5.08 m (50–200 in) with ET-DLE055, 2.54–8.89 m (100–350 in) with ET-DLE030, 16:10 aspect ratio (PT-RZ970/RW930), 4:3 aspect ratio (PT-RX110)		
Brightness		10,000 lm (Center) / 9,400 lm*1		10,400 lm (Center) / 10,000 lm*1
Center-to-corner uniformity*1		90 %		
Contrast*1		10,000:1 (Full On/Full Off, Dynamic Contrast Mode: ON)		
Resolution		1920 x 1200 pixels	1280 x 800 pixels	1024 x 768 pixels
Scanning frequency	SD-SDI	SMPTE ST 259 compliant, [YCBCR 4:2:2 10-bit] 480i (525i), 576i (625i)		
	HD-SDI	SMPTE ST 292 compliant, [YPBPR 4:2:2 10-bit] 720 (750/)60p, 720 (750/)50p, 1080 (1125/)60i, 1080 (1125/)50i, 1080 (1125/)25p, 1080 (1125/)24p, 1080 (1125/)24sF, 1080 (1125/)30p		
	3G-SDI	SMPTE ST 424 compliant, [RGB 4:4:4 12-bit/10-bit] 1080(1125/)60i, 1080(1125/)50i, 1080(1125/)25p, 1080(1125/)24p, 1080(1125/)24sF, 1080(1125/)30p, [YPBPR 4:2:2 10-bit] 1080(1125/)60p, 1080(1125/)50p		
	HDMI/DVI-D/DIGITAL LINK	480i (525i)*2, 576i (625i)*2, 480p (525p), 576p (625p), 720 (750/)60p, 720 (750/)50p, 1080 (1125/)60i, 1080 (1125/)50i, 1080 (1125/)25p, 1080 (1125/)24p, 1080 (1125/)24sF, 1080 (1125/)30p, 1080 (1125/)60p, 1080 (1125/)50p, VGA (640 x 480)–WUXGA*3 (1920 x 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 (525i)], fH: 15.63 kHz, fV: 50 Hz [576i (625i)], fH: 45.00 kHz, fV: 60 Hz [720 (750/)60p], fH: 33.75 kHz, fV: 60 Hz [1035 (1125/)60i], fH: 28.13 kHz, fV: 50 Hz [1080 (1125/)50i], fH: 27.00 kHz, fV: 24 Hz [1080 (1125/)24p], fH: 33.75 kHz, fV: 30 Hz [1080 (1125/)30p], fH: 56.25 kHz, fV: 50 Hz [1080 (1125/)50p], fH: 31.50 kHz, fV: 60 Hz [480p (525p)], fH: 31.25 kHz, fV: 50 Hz [576p (625p)], 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: 25 Hz [1080 (1125/)25p], fH: 27.00 kHz, fV: 48 Hz [1080 (1125/)24sF], fH: 67.50 kHz, fV: 60 Hz [1080 (1125/)60p]		
	Video/YC	fH: 15.75 kHz, fV: 60 Hz (NTSC/NTSC4.43/PAL-M/PAL60), fH: 15.63 kHz, fV: 50 Hz (PAL/PAL-N/SECAM)		
Optical axis shift*4	Vertical (from center of screen)	+50 %, -16 % (powered)	+60 %, -16 % (powered)	+50 %, -16 % (powered)
	Horizontal (from center of screen)	+30 %, -10 % (+28 %, -10 % with ET-DLE085) (powered)		
Keystone correction range		Vertical: ±40 ° (±22 ° with ET-DLE085/DLE055, +5 ° with ET-DLE030), horizontal: ±15 ° (Cannot be operated with ET-DLE030)		
Keystone correction range with optional Upgrade Kit ET-UK20		Vertical: ±45 °(±40 ° with ET-DLE150/DLE250/supplied lens, ±22 ° with ET-DLE085/DLE055), horizontal: ±40 ° (±15 ° with ET-DLE085/DLE055), Up to a total of ±55 ° during simultaneous horizontal and vertical correction.	—	
Installation		Ceiling/floor, front/rear, free 360-degree installation		
Terminals	SDI IN	BNC × 1: 3G/HD/SD-SDI input (PT-RZ970 only)		
	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, compatible with single link only)		
	RGB 1 IN	RGB × 1 (BNC × 5): RGB/YPBPR/YCBCR/YC/VIDEO		
	RGB 2 IN	D-sub HD 15-pin (female) × 1: RGB/YPBPR/YCBCR		
	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 x 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, 100Base-TX, compatible with Art-Net, PJLink™		
Cabinet materials		Molded plastic		
Dimensions (W × H × D)		498 x 200*5 x 581 mm (19 $\frac{19}{32}$˝ x 7 $\frac{7}{8}$˝*5 x 22 $\frac{7}{8}$˝) (with supplied lens) 498 x 200*5 x 538 mm (19 $\frac{19}{32}$˝ x 7 $\frac{7}{8}$˝*5 x 21 $\frac{3}{16}$˝) (without lens)		
Weight*6		TBD		
Operation noise*1		41 dB		
Operating environment		Operating temperature: 0–45 °C (32–113 °F)*7, operating humidity: 10– 80 % (no condensation)		
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro*8 (ET-UK20*9 Upgrade Kit and ET-CUK10*10 Auto Screen Adjustment Kit)		
Supplied accessories		Power cord with secure lock, wireless/wired remote control unit, batteries (R03/AAA type x 2), software CD-ROM (Logo Transfer Software, Multi Monitoring & Control Software)		

*1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *2 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal). *3 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). *4 Optical axis shift is not supported on the ET-DLE055, and the optical axis is fixed with the ET-DLE030. *5 With legs at shortest position. *6 Average value. May differ depending on the actual unit. *7 When used in locations from 0 m to 4,200 m (0 ft to 13,780 ft) above sea level in Normal mode, and from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level in other modes. If the ambient temperature exceeds 35 °C (95 °F) when used in locations from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level, or if it exceeds 25 °C (77 °F) when used in locations from 0 m to 4,200 m (0 ft to 13,780 ft) above sea level, the light output may be reduced to protect the projector. *8 Geometry Manager Pro software is available only with PT-RZ970. *9 ET-UK20 Series is available only with PT-RZ970. *10 ET-CUK10 Series is available only with PT-RZ970. Available worldwide except the United States.

Optional Accessories

■ Fixed-Focus Lens
ET-DLE030

■ Zoom Lens
ET-DLE085 / ET-DLE150 / ET-DLE250 / ET-DLE350 / ET-DLE450 / ET-DLE055

■ Geometry Manager Pro Software Upgrade Kit (PT-RZ970 Only)
ET-UK20 Series

■ Auto Screen Adjustment Upgrade Kit (PT-RZ970 Only)
ET-CUK10 Series (except in the United States)

■ Early Warning Software
ET-SWA100 Series

■ DIGITAL LINK Switcher
ET-YFB200G

■ Digital Interface Box
ET-YFB100G

■ Ceiling Mount Bracket
ET-PKD130H (6-axis, for high ceiling)
ET-PKD120H (for high ceiling)
ET-PKD120S (for low ceiling)

■ Projector Mount Bracket
ET-PKD130B

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All information included here is valid as of February 2016.

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