Panasonic

PT-**RZ670** Series
1-Chip DLP™ Projectors

Available from Q3 FY 2014

World's First[*1] Laser Light Source
1-Chip DLP™ Projectors with 6,000 lm of Brightness

SOLID SHINE LAMP FREE

DIGITAL LINK SINGLE CABLE SOLUTION

PICTURE BY DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

PT-**RZ670**B/W	PT-**RW630**B/W
6,000 lm	6,000 lm
WUXGA (1920 × 1200)	WXGA (1280 × 800)

NOTE: Models without lenses (PT-RZ670LB/ RZ670LW/RW630LB/RW630LW) are also available. The specifications are the same as those of the PT-RZ670B/ RZ670W/RW630B/RW630W respectively. All models are offered in a black (PT-RZ670B/RZ670LB/RW630B/RW630LB) or white (PT-RZ670W/RZ670LW/RW630W/RW630LW) cabinet.

Long-Lasting Reliability and High Picture Quality

- The world's first and brightest 6,000-lm brightness as a laser light source 1-chip DLP™ projector.
- Bright, beautiful picture quality for a long period of time.
- Reliable drive system enables continuous 24/7 operation with no downtime.
- Long-lasting brightness and low maintenance enable TCO (total cost of ownership) to be reduced.
- Laser light source and filter-less design allow maintenance-free of 20,000 hours[*2]
- Newly designed optical system achieves high reliability and excellent color reproduction.
- A new liquid cooling system maintains quiet, long-term, stable operation while keeping the exhaust heat extremely low.
- A filter-less, dust-resistant structure with an airtight optical block.
- Detail Clarity Processor 3 gives natural clarity to even the finest details.
- System Daylight View 2 enhances color perception with no need to turn off the lights.
- Advanced technologies for excellent image quality including full 10-bit signal processing.

- DICOM Simulation mode reproduces easy-to-view rendering of X-ray photos.[*3]
- Rec. 709 mode to provide accurate colors.
- Waveform Monitor for easy and precise calibration.

Expanding Installation Flexibility

- Multi-Screen Support System seamlessly connects multiple screens: edge blending, color matching and multi-screen processor.
- Multi-Unit Brightness Control function.
- Projection is possible with a flexible layout thanks to vertical and horizontal 360-degree installation.
- Lens-centered design and a wide horizontal/vertical lens shift.
- Geometric Adjustment for specially shaped screens. (PT-RZ670)
- Optional Upgrade Kit ET-UK20 featuring Geometry Manager Pro for more flexible geometric adjustment and modified masking functions. (PT-RZ670)
- Optional ET-CUK10[*4] Auto Screen Adjustment Upgrade Kit for automatic multi-screen projection setup. (PT-RZ670)
- A wide selection of optional lenses including the ET-DLE030 ultra-short throw lens.

Professional System Integration

- DIGITAL LINK transmits digital signals (HDMI, uncompressed HD video, audio, and control signals) up to 100 m (328 ft) with a single CAT5e cable or higher.
- Quick on/off: Image appears immediately and no need for cooling after use.
- Shutter function with fade in/out effect.
- No on/off cycle limitation.
- Art-Net[*5] compatible.
- Abundant terminals, including SDI (3G/HD/SD), DVI-D and HDMI inputs.
- Optional ET-YFB100G Digital Interface Box for single cable solution.
- Optional ET-MWP100G Multi Window Processor for multi-screen solution.
- Multi Projector Monitoring and Control Software allows multiple projectors to be managed together over a wired LAN or RS-232C.
- Web Browser Control.
- PJLink™ compatible.
- P-in-P function.
- Scheduling function.
- Optional Early Warning Software ET-SWA100 Series compatible.

Specifications (Tentative)

Model	PT-RZ670/RZ670L	PT-RW630/RW630L
Power supply	120 V–240 V AC, 8.5–4 A, 50/60 Hz	
Power consumption	820 W (835 VA at 120 V)	
	(0.4*[6] W with LIGHT POWER set to ECO*[7], 4 W*[6] with LIGHT POWER set to NORMAL.)	
DLP™ chip — Panel size / Display method / Pixels	17.0 mm (0.67 in) diagonal (16:10) DLP™ chip × 1, DLP™ projection system 2,304,000 (1,920 × 1,200) pixels	16.5 mm (0.65 in) diagonal (16:10) DLP™ chip × 1, DLP™ projection system 1,024,000 (1,280 × 800) pixels
Lens — PT-RZ670/RW630	Powered zoom (1.7–2.4:1), powered focus F 1.7–1.9, f 25.6 – 35.7 mm	Powered zoom (1.8–2.5:1), powered focus F 1.7–1.9, f 25.6 – 35.7 mm
Lens — PT-RZ670L/RW630L	Optional powered zoom/focus lenses and fixed-focus lens	
Light source	Laser diode	
Screen size (diagonal)	1.27–15.24 m (50–600 in), 1.27–5.08 m (50–200 in) with the ET-DLE055, 2.54–8.89 m (100–350 in) with the ET-DLE030, 16:10 aspect ratio	
Brightness*[8]	6,000 lm	
Center-to-corner uniformity*[8]	90 %	
Contrast*[8]	TBD	
Resolution	1,920 × 1,200 pixels	1,280 × 800 pixels *[9]
Scanning frequency — SDI	3G-SDI*[10]/HD-SDI*[11]/SD-SDI*[12]	–
Scanning frequency — HDMI/DVI-D	fH: 15–100 kHz, fv: 24–120 Hz, dot clock: 25–162 MHz	
Scanning frequency — RGB	fH: 15–100 kHz, fv: 24–120 Hz, dot clock: 162 MHz or lower	
Scanning frequency — YPBPR (YCBCR)	fH: 15.75 kHz, fv: 60 Hz [480i (525i)] fH: 31.50 kHz, fv: 60 Hz [480p (525p)] fH: 15.63 kHz, fv: 50 Hz [576i (625i)] 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)/25p] 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]	
Scanning frequency — 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*[13]	V: +50 %, H: ±10 % (powered)	V: +60 %, H: ±10 % (powered)
Keystone correction range	V: ±40°*[14/15], H: ±15°*[16/17]	V: ±40°*[18]
Keystone correction range with the optional upgrade kit ET-UK20	V: ±40°*[19/20], H: ±40°*[20/21]	–
Installation	Vertical, horizontal and tilting 360-degree projection capable	
Terminals — SDI IN	BNC × 1 (3G/HD/SD-SDI)	–
Terminals — HDMI IN	HDMI 19-pin × 1 (Deep Color, compatible with HDCP)	
Terminals — DVI-D IN	DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)	
Terminals — RGB 1 IN	BNC × 5 (RGB/YPBPR/YCBCR/video/YC × 1)	
Terminals — RGB 2 IN	D-Sub HD 15-pin (female) × 1 (RGB/YPBPR/YCBCR × 1)	
Terminals — SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)	
Terminals — SERIAL OUT	D-sub 9-pin (male) × 1 for link control	
Terminals — REMOTE 1 IN	M3 × 1 for wired remote control	
Terminals — REMOTE 1 OUT	M3 × 1 for link control (for wired remote control)	
Terminals — REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)	
Terminals — LAN / DIGITAL LINK	RJ-45 × 1 (for network and DIGITAL LINK (video/audio/network/serial control) connection, 100Base-TX, compatible with Art-Net, compliant with PJLink™, Deep Color, compatible with HDCP)	
Dimensions (W × H × D)	PT-RZ670/RW630: 498 × 200*[22] × 588 mm (19-19/32 × 7-7/8*[22] × 23-5/32 in) (with supplied lens) PT-RZ670L/RW630L: 498 × 200*[22] × 538 mm (19-19/32 × 7-7/8*[22] × 21-3/16 in) (without lens)	
Weight*[23]	PT-RZ670/RW630: Approx. 23.0 kg (50.7 lbs) or less (with supplied lens); PT-RZ670L/RW630L: approx. 22.0 kg (48.5 lbs) or less (without lens)	
Operation noise*[8]	35 dB (LIGHT POWER mode: NORMAL)	
Operating environment	TBD	
Supplied accessories	Power cord with secure lock, wireless/wired remote control unit, batteries (R03/AAA type × 2), software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software)(× 1)	

Optional accessories

Zoom lens
ET-DLE080
ET-DLE085
ET-DLE150
ET-DLE250
ET-DLE350
ET-DLE450

Fixed-focus lens
ET-DLE030
ET-DLE055

Upgrade kit (PT-RZ670 only)
ET-UK20
  (Geometry Manager Pro included)
ET-CUK10
  (Auto Screen Adjustment)

Ceiling mount bracket
ET-PKD120H
  (for high ceilings)
ET-PKD130H
  (for high ceilings, with 6-axis adjustment)
ET-PKD120S
  (for low ceilings)
ET-PKD130B
  (attachment for ceiling mount bracket)

Early Warning Software
ET-SWA100 Series

*1 For 1-chip DLP™ projectors, as of January 2014. *2 A guideline for light source replacement. The maintenance-free period may be shortened due to environmental conditions. *3 This product is not a medical instrument. Do not use it for actual medical diagnosis. *4 Availability is limited to certain regions only. *5 Art-Net is a protocol for transmitting the lighting control protocol DMX512 over Ethernet. *6 In STANDARD/GRAPHIC picture mode. Measured based on the power consumption rate and a measurement method for the TV receiver. *7 When the STANDBY mode is set to ECO, network functions such as power on over the LAN will not operate. Also, only certain commands can be received for external control using the serial terminal. *8 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *9 Input signals that exceed this resolution will be converted to 1,280 × 800 pixels. *10 SMPTE ST 424 compliant, [RGB 4:4:4 12-bit/10-bit] 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/25p, 1125 (1080)/24p, 1125 (1080)/24sF, 1125 (1080)/30p, [YPBPR 4:2:2 10-bit] 1125 (1080)/60p, 1125 (1080)/50p. *11 SMPTE ST 292 compliant, [YPBPR 4:2:2 10-bit] 750 (720)/60p, 750 (720)/50p, 1125 (1035)/60i, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/25p, 1125 (1080)/24p, 1125 (1080)/24sF, 1125 (1080)/30p. *12 SMPTE ST 259 compliant, [YCBCR 4:2:2 10-bit] 525i (480i), 625i (576i). *13 Optical axis shift cannot be operated with the ET-DLE055/DLE030. *14 ±30° with the ET-DLE085/DLE055 and +5° with the ET-DLE030. *15 ±20° (±8° with the ET-DLE085/DLE055) when using both the KEYSTONE and CURVED corrections of the Geometric Adjustment function. *16 When using the KEYSTONE corrections of the Geometric Adjustment function. *17 ±15° (±8° with the ET-DLE085/DLE055) when using both the KEYSTONE and CURVED corrections of the Geometric Adjustment function. *18 Not operable with the ET-DLE030. *19 Up to a total of ±55° during simultaneous horizontal and vertical correction. *20 ±40° with the ET-DLE150/DLE250/supplied lens, ±22° with the ET-DLE085/DLE055 and +5° with the ET-DLE030. *21 ±15° with the ET-DLE085/DLE055 (±8° when using both the KEYSTONE and CURVED corrections of the Geometric Adjustment function). *22 With legs at shortest position. *23 Average value. May differ depending on the actual unit.

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All information included here is valid as of January 2014.

PT-RZ670PRE1 Printed in Japan.