

World's First*¹ Laser Light Source 1-Chip DLP™ Projectors with 6,500 lm of Brightness



PT-RZ670B/W	PT-RW630B/W
6,500 lm	6,500 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 6,500-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.

Model	PT-RZ670/RZ670L	PT-RW630/RW630L
Power supply	120 V–240 V AC, 8.5–4 A, 50/60 Hz	
Power consumption	720 W (735 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
Lens	PT-RZ670/RW630 PT-RZ670L/RW630L	16.5 mm (0.65 in) diagonal (16:10) DLP™ chip × 1, DLP™ projection system 1,024,000 (1,280 × 800) pixels Powered zoom (1.7–2.4:1), powered focus F 1.7–1.9, f 25.6 – 35.7 mm 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	6,500 lm	
Center-to-corner uniformity*8	90 %	
Contrast*8	10,000:1	
Resolution	1,920 × 1,200 pixels	1,280 × 800 pixels*9
Scanning frequency	3G-SDI*10/HD-SDI*11/SD-SDI*12	
SDI	–	
HDMI/DVI-D	fh: 15–100 kHz, fv: 24–120 Hz, dot clock: 25–162 MHz	
RGB	fh: 15–100 kHz, fv: 24–120 Hz, dot clock: 162 MHz or lower	
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: 15.75 kHz, fv: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60], fh: 15.63 kHz, fv: 50 Hz [PAL/PAL-N/SECAM]	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]
Video/YC		
Optical axis shift*13	V: +50%, -16%; H: +30%, -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	Ceiling/floor, front/rear	
Terminals	SDI IN	–
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	BNC × 5 (RGB/YPbPr/YCbCr/video/YC × 1)	
RGB 2 IN	D-Sub HD 15-pin (female) × 1 (RGB/YPbPr/YCbCr × 1)	
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 and DIGITAL LINK (video/audio/network/serial control) connection, 100Base-TX, compatible with Art-Net, compliant with PLink™, Deep Color, compatible with HDCP)	
Dimensions (W × H × D)	PT-RZ670/RW630: 498 × 200*22 × 581 mm (19-19/32 × 7-7/8*22 × 22-7/8 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. 22.3 kg (49.2 lbs) or less (without lens)	
Operation noise*8	35 dB (LIGHT POWER mode: NORMAL)	
Operating environment	Operating temperature: 0–45°C (32–113°F)*23 operating humidity: 10%–80% (no condensation)	
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	Upgrade kit (PT-RZ670 only)
ET-DLE080	ET-UK20
ET-DLE055	(Geometry Manager Pro included)
ET-DLE150	ET-CUK10*4
ET-DLE250	(Auto Screen Adjustment)
ET-DLE350	Ceiling mount bracket
ET-DLE450	ET-PKD120H
	(for high ceilings)
Fixed-focus lens	ET-PKD130H
ET-DLE030	(for high ceilings, with 6-axis adjustment)
ET-DLE055	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 June 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 Available for use worldwide except in the United States. *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. *23 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.



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All information included here is valid as of June 2014.