



**Laser 1-chip DLP, 10,000 lumens (centre), WUXGA,  
10.000:1, Solid Shine Laser, up to 20000 hours  
maintenance free**

## PT-RZ970

10,000 lumens-class compact Solid Shine laser projector Designed for intensive usage and long lasting brightness in education, museums, exhibitions and digital signage applications

### Key Features

Laser 1-chip DLP, 10,000 lumens (centre), WUXGA

High brightness and excellent image quality with laser light source

Maintenance free up to 20,000 hours with dust-resistant optical block and long lasting laser engine

Free 360 degrees installation and Geometric Manager Pro function

10,000:1 contrast ratio





Versatile 1-Chip DLP™ Laser Projectors  
PT-RZ970/RW930/RX110



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PT-RZ970/RW930/RX110



## PT-RZ970

<https://ap.connect.panasonic.com/vn/en/products/projectors/pt-rz970>

<b>Brightness*3</b>	10,000 lumens (Center)*2/ 9,400 lumens*3 9,400 lumens (Half luminance) (NORMAL) 7,500 lumens (Half luminance) (ECO) 3,700 lumens (Constant luminance) (LONG LIFE1) 3,100 lumens (Constant luminance) (LONG LIFE2) 2,500 lumens (Constant luminance) (LONG LIFE3)
<b>DLP™ Chip   Panel Size</b>	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)
<b>Power Supply</b>	AC100-240V 3.5A 50/60 Hz
<b>Power Consumption</b>	1,050W NORMAL: 742W ECO: 617W LONG LIFE1: 410-588 LONG LIFE 2: 375-588W LONG LIFE 3: 349-588W SHUTTER: 82W STANDBY MODE [ECO]*1: 0.2W STANDBY MODE [NORMAL]: 3W STANDBY MODE (When the [QUICK STARTUP] function is enabled): Approx. 85 W *Operating Temperature: 25 °C (77 °F), Altitude: 700m (2,297 ft), ICE62087: 2008 Broadcast contents, Picture mode: Standard, Dynamic Contrast2
<b>BTU Value</b>	Max 3,584 BTU
<b>DLP™ Chip   Display Method</b>	DLP™ chip × 1, DLP™ system
<b>DLP™ Chip   Pixels</b>	2,304,000 (1920 × 1200) × 1, total of 1,024,000 pixels
<b>Lens   PT-RZ970B/W</b>	Powered zoom/focus lenses (1.7-2.4:1), F 1.7-1.9, f 25.6-35.7 mm
<b>Lens   PT-RZ970LB/LW</b>	Optional powered zoom/focus lenses and xed-focus lens
<b>Light Source</b>	Laser Diode Laser class 1(Class3R for US models) Luminance life for set: 20,000 hours at half luminance (normal)/ 24,000 hours at half luminance (Eco) * Temperature: 30°C (86°F), Altitude 700m (2,297 ft), Dust: 0.15mg/m3 Dynamic Contrast3 43,800 hours at constant luminance (LONG LIFE1) 61,320 hours at constant luminance (LONG LIFE2) 87,600 hours at constant luminance (LONG LIFE3)
<b>Screen Size</b>	1.27- 15.24 m (50-600 inches) (16:10 aspect ratio) *1.27 - 5.08 m (50 - 200 inches) with the ET-DLE055 (16:10 aspect ratio) *2.54 - 7.62 m (100 - 350 inches) with the ET-DLE030 (16:10 aspect ratio)
<b>Brightness</b>	10,000 lumens (centre)/ 9,400 lumens
<b>Center-to-Corner Uniformity*3</b>	90%
<b>Contrast*3</b>	10,000:1 (All White/All Black) (Dynamic Contrast3)
<b>Resolution</b>	1920 × 1200 pixels
<b>Scanning Frequency   SDI</b>	3G-SDI signal (RGB 4:4:4 12-bit/10-bit): SMPTE ST 424 compliant: 1125(1080)/60i, 1125(1080)/50i,1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p,[2K/24p], [2K/25p], [2K/30p] 3G-SDI signal (YPBPR4:2:2 10-bit): SMPTE ST 424 compliant: 1125(1080)/60p, 1125(1080)/50p,[2K/48p], [2K/50p], [2K/60p] HD-SDI signal (YPBPR4:2:2 10-bit): SMPTE ST 292 compliant: 750(720)/60p, 750(720)/50p,1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p,1125(1080)/24sF, 1125(1080)/30p SD-SDI signal (YCBCR4:2:2 10-bit): SMPTE ST 259 compliant: 525i(480i), 625i(576i)
<b>Scanning Frequency   HDMI/DVI-D</b>	fH: 15- 100kHz, fV: 24 - 120Hz, dot clock: 25 - 162 MHz 525i (480i)*4, 625i (576i)*4, 525p (480p), 625p (576p), 750 (720)/60p,750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/25p,1125 (1080)/24p, 1125 (1080)/24sF, 1125 (1080)/30p, 1125 (1080)/60p,1125 (1080)/50p, VGA (640 x 480) - WUXGA (1920 x 1200) compatible with non-interlaced signals only
<b>Scanning Frequency   RGB</b>	fH: 15- 100kHz, fV: 24 - 120Hz, dot clock: 20 - 162 MHz

<b>Scanning Frequency   YPBPR (YCBCR)</b>	525i (480i): fH 15.73 kHz; fV 59.9 Hz, 625i (576i): fH 15.63 kHz; fV 59.9 Hz, 525p (480p): fH 31.50 kHz; fV 60 Hz, 625p (576p): fH 31.25 kHz; fV 50 Hz, 750 (720)/60p: fH 45.00 kHz; fV 60 Hz, 750 (720)/50p: fH 37.50 kHz; fV 50 Hz, 1125 (1080)/60i: fH 33.75 kHz; fV 60 Hz, 1125 (1080)/50i: fH 28.13 kHz; fV 50 Hz, 1125 (1080)/25p: fH 28.13 kHz; fV 25 Hz, 1125 (1080)/24p: fH 27.00 kHz; fV 24 Hz, 1125 (1080)/24sF: fH 27.00 kHz; fV 48 Hz, 1125 (1080)/30p: fH 33.75 kHz; fV 30 Hz, 1125 (1080)/60p: fH 67.50 kHz; fV 60 Hz, 1125 (1080)/50p: fH 56.25 kHz; fV 50 Hz
<b>Scanning Frequency   Video/S-Video</b>	fH: 15.73 kHz, fV: 59.9 Hz [NTSC/NTSC4.43/PAL-M/PAL60] fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]
<b>Optical Axis Shift</b>	Vertical: +50%, -16%(powered), Horizontal: +30%, -10% (When using the ET-DLE085/DLE105, +28%, -10%)(powered) NOTE: Optical axis shift function cannot be operated when used with the ET-DLE055. If using the ET-DLE030, the optical axis is fixed.
<b>Installation</b>	Ceiling/floor, front/rear, 360 degree free installation
<b>Terminals   SDI In</b>	BNC × 1, 3G-SDI signal: SMPTE ST 424 compliant HD-SDI signal: SMPTE ST 292 compliant SD-SDI signal: SMPTE ST 259 compliant
<b>Terminals   HDMI In</b>	HDMI 19-pin × 1, Deep Color, compatible with HDCP
<b>Terminals   DVI-D In</b>	DVI-D 24-pin × 1, DVI 1.0 compliant, compatible with HDCP, for single link only
<b>Terminals   RGB 1 In</b>	BNC × 5
<b>Terminals   RGB 1 In   R, G, B</b>	R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic
<b>Terminals   RGB 1 In   Y, PB, PR (Y, CB, CR)</b>	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms
<b>Terminals   RGB 1 In   Y/C</b>	Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms
<b>Terminals   RGB 1 In   Video</b>	1.0Vp-p, 75 ohms
<b>Terminals   RGB 2 In</b>	D-sub HD 15-pin (female) × 1
<b>Terminals   RGB 2 In   R, G, B</b>	R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic
<b>Terminals   RGB 2 In   Y, PB, PR (Y, CB, CR)</b>	Y: 1.0 Vp-p (including sync signal), PB/PR(CB/CR): 0.7 Vp-p, 75 ohms
<b>Terminals   Serial/Multi Projector Sync In</b>	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)
<b>Terminals   Serial/Multi Projector Sync Out</b>	D-sub 9-pin (male) × 1 for link control
<b>Terminals   Remoter 1 In</b>	M3 jack × 1 for wired remote control
<b>Terminals   Remoter 1 Out</b>	M3 jack × 1 for link control (for wired remote control)
<b>Terminals   Remoter 2 In</b>	D-sub 9-pin (female) × 1 for external control (parallel)
<b>Terminals   LAN/DIGITAL LINK</b>	RJ-45 × 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compliant with PLink™(Class 1) Deep Color, HDCP
<b>Power Cord Length</b>	3.0 m (9 ft 10 in)
<b>Cabinet Materials</b>	Molded plastic
<b>Dimensions (W x H x D)</b>	PT-RZ970B/RZ970W: 498 x 200*5 x 581 mm (19-19/32 x 7-7/8*5 x 22-7/8in ) with supplied lens PT-RZ970LB/RZ970LW: 498 x 200*5 x 538 mm (19-19/32 x 7-7/8*5 x 21-3/16in) without lens
<b>Weight</b>	PT-RZ970B/RZ970W: Approx. 23.2kg (51.1lbs) with supplied lens PT-RZ970LB/RZ970LW: Approx. 22.4kg (49.4lbs) without lens

<b>Operation Noise</b>	41dB (37dB[QUIET1] / 35dB[QUIET2])
<b>Operating Temperature</b>	0-45 °C (32-113 °F) * 6
<b>Operating Humidity</b>	10%-80% (no condensation)
<b>Note</b>	<p>*1 When the STANDBY MODE is set to Eco, network functions such as power on over the LAN will not operate.</p> <p>*2 The value of the light output at the center region of the projected image is extracted based on the light output measurement method defined by the ISO/IEC 21118:2012 international standards.</p> <p>*3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.</p> <p>*4 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal).</p> <p>*5 with legs at shortest position.</p> <p>*6 Limits the luminance when used in locations from 0m to 2,700m (0ft to 8,858ft) above sea level at ambient temperatures of 35°C (95°F) or higher, or from 2,700m to 4,200m (8,858ft to 13,780ft) above sea level at ambient temperatures of 25°C (77°F) or higher.</p>
<b>Technology</b>	1-Chip DLP Laser