

# Kompakter Solid Shine- Laserprojektor der 10.000-Lumen-Klasse

PT-RZ970

Konzipiert für intensive Nutzung und dauerhafte Helligkeit im Bildungswesen, in Museen und Ausstellungen sowie für Digital Signage. 1 Chip DLP-Projektor mit Laserlichtquelle, 10.000 Center Lumen und WUXGA.



Versatile 1-Chip DLPTM Laser Projectors  
**PT-RZ970/RW930/RX110**

## KEY FEATURES

- 1 Chip DLP Laser, 10.000 Center Lumen, WUXGA
- Laserlichtquelle für hohe Helligkeit und exzellente Bildqualität
- Bis zu 20.000 Stunden wartungsfreier Betrieb dank staubfestem Optikblock und haltbarem Lasersystem
- Flexible 360°-Installation und Geometric Manager Pro-Funktion
- Kontrastverhältnis von 10.000:1

## Hohe Bildqualität und langfristige Zuverlässigkeit

- Vereint 1-Chip-DLPTM-Bildgebung mit einzigartiger SOLID SHINE-Lasertechnologie für höchste Bildqualität bei einer Helligkeit von 10.000 lm

(Center)<sup>1</sup>

- Dynamische Lichtsteuerung für Kontrastverhältnis 10.000:1<sup>2</sup>
- Präziser Weißabgleich und natürliche Farbwiedergabe in jedem Projektionsmodus
- Ausdauernd hohe Bildqualität
- Detail Clarity Processor 3 für mehr Klarheit bis in die kleinsten Details
- System Daylight View 2 für gestochen scharfe und lebendige Bilder bei hellem Umgebungslicht

## SPECIFICATIONS

<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>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*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>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 x 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 x 1, Deep Color, compatible with HDCP
<b>Terminals   DVI-D In</b>	DVI-D 24-pin x 1, DVI 1.0 compliant, compatible with HDCP, for single link only
<b>Terminals   RGB 1 In</b>	BNC x 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) x 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) x 1 for external control (RS-232C compliant)
<b>Terminals   Serial/Multi Projector Sync Out</b>	D-sub 9-pin (male) x 1 for link control
<b>Terminals   Remoter 1 In</b>	M3 jack x 1 for wired remote control
<b>Terminals   Remoter 1 Out</b>	M3 jack x 1 for link control (for wired remote control)
<b>Terminals   Remoter 2 In</b>	D-sub 9-pin (female) x1 for external control (parallel)
<b>Terminals   LAN/DIGITAL LINK</b>	RJ-45 x 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 581mm (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>Brightness</b>	10.000 lumens (centre)/ 9.400 lumens
<b>Technology</b>	1-Chip DLP Laser
<b>DLP™ Chip   Panel Size</b>	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)
<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

URL: <https://business.panasonic.de/visuelle-systeme/pt-rz970>

## CONTACT

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