

# Smallest 20 000 lumens Solid Shine Laser Projector

PT-RZ21K

Stunning image quality in a compact body designed for large venues. Laser light source, 3-chip DLP, 21 000 centre lumens, WUXGA, maintenance-free projector.



## KEY FEATURES

- Laser 3-chip DLP, smallest and lightest 21 000 centre lumens, WUXGA
- Lamp-free laser projection with dust resistant liquid cooling system for 20000 hours maintenance free operation
- Real maintenance-free projection with filter-less design and no need for smoke-filter
- Un-interrupted projection with dual-light source and built in redundancy inputs
- Geometric Manager Pro, colour matching and edge blending

Smallest 20 000 lumens Solid Shine Laser Projector. Stunning image quality in a compact body designed for large venues. Exchangeable lens, 24/7 Operation, Digital link, Geometric Adjustment, 360° flexible installation.

## SPECIFICATIONS

<b>Technology</b>	Laser 3-chip DLP
<b>Power Supply</b>	AC 200V-240V, 7.7A, 50/60Hz The light output will decrease to approximately 1/2 when using the projector with AC 100V to AC 120V [9.6A].
<b>Power Consumption</b>	1,510 W (1,525 VA [AC200V]) (0.3 W with Standby Mode set to Eco*1, 4 W with Standby Mode set to Normal) 1,217W (Normal Mode), 972 W (Eco Mode) Operating Temperature: 25 °C (77 °F), Altitude: 700m (2,297ft), IEC627087: 2008 Broadcast contents, Picture mode: Standard, Dynamic contrast [2]
<b>BTU Value</b>	Max 5,159 BTU
<b>DLP™ Chip   Panel Size</b>	24.4 mm (0.96 inches) diagonal (16:10 aspect ratio)
<b>DLP™ Chip   Display Method</b>	DLP™ chip x 3, DLPTM projection system
<b>DLP™ Chip   Pixels</b>	6,912,000 (1920 x 1200 x 3) pixels
<b>Refresh Rate</b>	120 Hz*2
<b>Lens</b>	Optional (no lens included with this model), powered zoom, powered focus lens
<b>Light Source</b>	Laser Diode (Laser class: Class 1)*Class 3R for North America.
<b>Illumination Life of Set</b>	Varies depending on operation mode setting. 20,000 hours at half luminance (Normal) 24,000 hours at half luminance (Eco) * IEC62087: 2008 Broadcast contents, Dynamic contrast [3] (NORMAL/ECO Temperature: 30 °C (86 °F), Altitude 700m (2,297 ft), Dynamic Contrast [3] Under conditions of 0.15 mg/m3 of particulate matter
<b>Screen Size (Diagonal)</b>	1.78-25.4 m (70-1,000 in) with 16:10 aspect ratio 1.78-15.24 m (70-600 in) with the ET-D75LE8, 16:10 aspect ratio 3.05-15.24 m (120-600 in) with the ET-D75LE95, 16:10 aspect ratio
<b>Brightness</b>	21,000 lm (Center)*3*5 / 20,000 lm (Normal)*4*5
<b>Center-to-Corner Uniformity</b>	90%
<b>Contrast*3</b>	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)
<b>Resolution</b>	1920 x 1200 pixels
<b>Scanning Frequency   Video/Y/C</b>	fH:15.73KHz fV:59.94Hz, fH:15.63KHz fV:50Hz
<b>Scanning Frequency   RGB</b>	<ul style="list-style-type: none"> <li>Resolution: 640 x 400 pixels to 1920 x 1200 pixels</li> <li>Dot clock frequency: 162MHz or less</li> <li>PIAS (Panasonic Intelligent Auto Scanning)</li> </ul>
<b>Scanning frequency   YPBPR(YCBCR)</b>	<ul style="list-style-type: none"> <li>Resolution: 480i/576i to 1920 x 1080 pixels</li> <li>Dot clock frequency: 148.5MHz or less</li> <li>The SYNC/HD and VD terminals do not support 3 value SYNC.</li> </ul>
<b>Scanning Frequency   DVI</b>	<ul style="list-style-type: none"> <li>Moving image signal resolution: 480i*6/576i*6 to 1920x1080</li> <li>Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace)</li> <li>Dot clock frequency: 25 MHz to 162 MHz</li> </ul>
<b>Scanning Frequency   HDMI/DIGITAL LINK</b>	<ul style="list-style-type: none"> <li>Moving image signal resolution: 480i*6/576i*6 to 1920x1080</li> <li>Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace)</li> <li>Dot clock frequency: 25 MHz to 162 MHz</li> </ul>
<b>Scanning Frequency   SDI</b>	SD-SDI signal HD-SDI signal 3G-SDI signal
<b>Optical Axis Shift</b>	Vertical (from center of screen) ±55 % (±44 % with ET-D75LE6, +68 % - +78 % with ET-D75LE95) (powered) Horizontal (from center of screen) ±20 % (±15 % with ET-D75LE6, ±12 % with ET-D75LE95) (powered) NOTE: Optical axis shift function cannot be operated when used with the ET-D75LE50.
<b>Installation</b>	Ceiling/floor, front /rear, free 360-degree installation
<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 (including sync signal), C: 0.286 Vp-p, 75 ohms
<b>Terminals   RGB 1 In   Video in</b>	BNC x 1, 1.0 Vp-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   DVI-D In</b>	DVI-D 24-pin x1 Single link, DVI 1.0 compliant, HDCP compatible
<b>Terminals   HDMI In</b>	HDMI 19-pin x1 HDCP compatible, Deep Color compatible
<b>Terminals   SDI In 1</b>	BNC x 1 SD-SDI signal SMPTE ST 259 compliant HD-SDI signal SMPTE ST 292 compliant 3G-SDI signal SMPTE ST 424, 425-2 compliant Dual link HD-SDI (LINK A) signal SMPTE ST 372 compliant Dual link 3G-SDI (Link 1) signal SMPTE ST 425-3 compliant
<b>Terminals   SDI In 2</b>	BNC x 1 SD-SDI signal SMPTE ST 259 compliant HD-SDI signal SMPTE ST 292 compliant 3G-SDI signal SMPTE ST 424, 425-2 compliant Dual link HD-SDI (LINK B) signal SMPTE ST 372 compliant Dual link 3G-SDI (Link 2) signal SMPTE ST 425-3 compliant
<b>Terminals   DIGITAL LINK</b>	RJ-45 HDBaseT™ compliant, HDCP compatible, Deep Color compatible
<b>Terminals   3D Sync 1 In/Out / Multi Projector Sync In</b>	BNC x 1, IN : TTL Hi-z OUT : TTL max10mA
<b>Terminals   3D Sync 2 Out/Multi Projector Sync Out</b>	BNC x 1, TTL max10mA
<b>Terminals   Serial In</b>	D-sub 9-pin x 1 for external control (RS-232C compliant)
<b>Terminals   Serial Out</b>	D-sub 9-pin 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
<b>Terminals   Remoter 2 In</b>	D-sub 9-pin x 1 for external control (parallel)
<b>Terminals   DIGITAL LINK/LAN</b>	RJ-45 x 1 for network connection, 100Base-TX PLink™ (class 2) compatible, Art-Net compatible
<b>Terminals   DC Out 5V</b>	USB connector (type A) x 2 for power supply only (DC 5V, Max 2A)
<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>	598 x 270 x 725 mm (23 17/32inch x 10 5/8inch x 28 17/32inch ) (not including protruding parts)
<b>Weight</b>	*9 Approximately 49kg (108 lbs) (not including lens)
<b>Operation Noise</b>	*3 46dB
<b>Operating Environment</b>	Operating temperature: 0-50 °C (32-122 °F)*10; Operating humidity: 10-80 % (no condensation)
<b>Note</b>	<p>*1 When Standby Mode is set to ECO, network functions such as power on over LAN will not operate. Additionally, only certain commands can be received for external control using the serial terminal.</p> <p>*2 Refresh rate varies depending on scanning frequency.</p> <p>*3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.</p> <p>*4 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>*5 In AC200V, When using a projection lens other than ET-D75LE95.</p> <p>*6 Pixel-Repetition signal(dot clock frequency 27.0MHz) only</p> <p>*7 Only the vertical keystone correction angle can be corrected in the direction in which the projector body moves away from the screen.</p> <p>*8 When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding total of 55 °.</p>

\*9 Average value. May differ depending on the actual unit

\*10 Operating temperature is 0–45 °C (32–113 °F) when used in locations from 1,400 m to 4,200 m (4,593 ft to 13,779 ft) above sea level.

When the [PROJECTOR SETUP] menu -> [OPERATION SETTING] -> [OPERATING MODE] is set to [NORMAL], and the operating environment temperature exceeds the following value, the light output may be reduced to protect the projector.

- When using the projector at an altitude lower than 2,700m (8,858') above sea level: 35 °C (95 °F)

- When using the projector at an altitude between 2,700m (8,858') and 4,200m (13,780') above sea level: 25 °C (77 °F)

URL: <https://business.panasonic.co.uk/visual-system/Laser-projector/PT-RZ21>

## CONTACT

Web: <https://business.panasonic.co.uk/visual-system/contact-us>