



Designed for long-lasting stable brightness in events and staging. Laser light source, 3-chip DLP, 12 000 lumens, WUXGA projector.

## PT-RZ12K

Compact 12 000 lumens Solid Shine laser Projector Designed for long-lasting stable brightness in events and staging Exchangeable lens - 24/7 Operation, Digital Link, High Frame Rate 120 Hz, Geometric Adjustment, Portrait Mode, Digital Link, 20 000:1

### Key Features

Laser 3-chip DLP, 12000 lumens, WUXGA

120Hz high frame rate for superb and sharp motion pictures

Lamp-free laser projection and dust resistant liquid cooling system with 20000 hours of free maintenance

20,000:1 contrast ratio





## PT-RZ12K

<https://ap.connect.panasonic.com/id/en/products/projectors/pt-rz12k>

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| <b>Lamp</b>                        | 3-Chip DLP Laser   |
| <b>Brightness</b>                  | 12,000 lumens  |
| <b>Resolution</b>                  | 1,920 x 1,200 pixels (Input signals that exceed this resolution will be converted to 1,920 x 1,200 pixels.)  |
| <b>Power Supply</b>                | AC 100-240 V 50/60 Hz  |
| <b>Power Consumption</b>           | 1,200 W (1,280 VA) (0.3 W with STANDBY MODE set to ECO. 4 W with STANDBY MODE set to NORMAL),<br><br>Average power consumption<br>NORMAL: 800W ECO: 680W LONG LIFE1: 620W LONG LIFE 2: 590W<br>LONG LIFE 3: 550W<br><br>*Operating Temperature: 25 °C (77 °F), Altitude: 700m (22 ft 12 in),<br>ICE627087: 2008 Broadcast contents,<br>Picture mode: Dynamic, Dynamic Contrast3                    |
| <b>BTU Value</b>                   | Max 4,096 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 (R, G, B), DLP™ projection system  |
| <b>DLP™ Chip   Pixels</b>          | 2,304,000 (1,920 x 1,200) x 3, total of 6,912,000 pixels   |
| <b>Lens</b>                        | Optional powered zoom/focus lenses   |
| <b>Light Source</b>                | Laser Diode (Laser class: Class 1)<br><br>Luminance life for set: 20,000 hours at half luminance (normal)/<br>24,000 hours at half luminance (Eco)<br><br>* Temperature: 35°C (95°F), Altitude 700m (22ft 12in), Dust: 0.15mg/m <sup>3</sup><br>43,800 hours at constant luminance (Longlife1)<br>61,320 hours at constant luminance (Longlife2)<br>87,600 hours at constant luminance (Longlife3) |
| <b>Screen Size</b>                 | 1.78-25.4 m (70-1,000 inches) (16:10 aspect ratio)<br><br>1.78-15.24 m (70-600 inches) with the ET-D75LE8 (16:10 aspect ratio)<br><br>3.05-15.24 m (120-600 inches) with the ET-D75LE90 (16:10 aspect ratio)   |
| <b>Center-to-Corner Uniformity</b> | 90%  |
| <b>Contrast</b>                    | 20,000:1 (full on/full off, in Dynamic Contrast 3 mode)  |

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| <b>Scanning Frequency   SDI</b>           | <p>SD-SDI signal (YCBCR 4:2:2 10-bit):<br/>SMPTE ST 259 compliant: 525i(480i), 625i(576i)</p> <p>Single-link HD-SDI signal (YPBPR 4:2:2 10-bit):<br/>SMPTE ST 292 compliant: 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</p> <p>Dual-link HD-SDI signal (RGB 4:4:4 12-bit/10-bit):<br/>SMPTE ST 372 compliant: 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p</p> <p>2048 x 1080/24p, 2048 x 1080/24sF,</p> <p>Dual-link HD-SDI signal (X Y Z 4:4:4 12-bit):<br/>SMPTE ST 372 compliant: 2048 x 1080/24p, 2048 x 1080/24sF,</p> <p>3G-SDI signal (YPBPR 4:2:2 10-bit):<br/>SMPTE ST 424 compliant: 1125(1080)/60p, 1125(1080)/50p</p> <p>3G-SDI signal (RGB 4:4:4 12-bit/10-bit):<br/>SMPTE ST 424 compliant: 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p</p> <p>Dual-link 3G-SDI signal (YPBPR 4:4:4 12-bit/10-bit):<br/>SMPTE ST 425 compliant: 1125(1080)/60i, 1125(1080)/50i, 2048 x 1080/48p, 2048 x 1080/50p, 2048 x 1080/60p</p> <p>Dual-link 3G-SDI signal (RGB 4:4:4 12-bit/10-bit):<br/>SMPTE ST 425 compliant: 1125(1080)/60i, 1125(1080)/50i, 2048 x 1080/48p, 2048 x 1080/50p, 2048 x 1080/60p</p> |
| <b>Scanning Frequency   HDMI/DVI-D</b>    | <p>Horizontal: 15 kHz-100 kHz, vertical: 24 Hz - 120 Hz,<br/>dot clock: 25 MHz - 162 MHz</p>   |
| <b>Scanning Frequency   RGB</b>           | <p>Horizontal: 15 kHz-100 kHz, vertical: 24 Hz - 120 Hz,<br/>dot clock: 162 MHz or less</p>  |
| <b>Scanning Frequency   YPBPR (YCBCR)</b> | <p>525i (480i): fH 15.73 kHz; fV 59.94 Hz,<br/>625i (576i): fH 15.63 kHz; fV 50 Hz,<br/>525p (480p): fH 31.47 kHz; fV 59.94 Hz,<br/>625p (576p): fH 31.25 kHz; fV 50 Hz,<br/>750 (720)/60p: fH 45.00 kHz; fV 60 Hz,<br/>750 (720)/50p: fH 37.50 kHz; fV 50 Hz,<br/>1125 (1035)/60i: fH 33.75 kHz; fV 60 Hz,<br/>1125 (1080)/60i: fH 33.75 kHz; fV 60 Hz,<br/>1125 (1080)/50i: fH 28.13 kHz; fV 50 Hz,<br/>1125 (1080)/25p: fH 28.13 kHz; fV 25 Hz,<br/>1125 (1080)/24p: fH 27.00 kHz; fV 24 Hz,<br/>1125 (1080)/24sF: fH 27.00 kHz; fV 48 Hz,<br/>1125 (1080)/30p: fH 33.75 kHz; fV 30 Hz,<br/>1125 (1080)/60p: fH 67.50 kHz; fV 60 Hz,<br/>1125 (1080)/50p: fH 56.25 kHz; fV 50 Hz</p>  |
| <b>Scanning Frequency   Video/Y/C</b>     | <p>fH: 15.73 kHz, fV: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60]<br/>fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]</p>  |
| <b>Optical Axis Shift   Vertical</b>      | <p>±55% (±44% with the ET-D75LE6), (+73-78% with the ET-D75LE90),<br/>from center of screen, powered</p>   |
| <b>Optical Axis Shift   Horizontal</b>    | <p>±20% (±15% with the ET-D75LE6), (±6% with the ET-D75LE90),<br/>from center of screen, powered</p>   |
| <b>Keystone Correction Range</b>          | <p>NOTE: Optical axis shift function cannot be operated when used with the ET-D75LE50.<br/>Vertical : ±40° (±22° with the ET-D75LE50, ±28° with the ET-D75LE6, +5° with the ET-D75LE90),<br/>horizontal: ±15° (0° with the ET-D75LE90)</p>   |
| <b>Installation</b>                       | <p>Ceiling/floor, front/rear</p>   |
| <b>Terminals   SDI In 1</b>               | <p>BNC x 2,<br/>Dual-link 3G-SDI signal: SMPTE ST 425 compliant<br/>3G-SDI<br/>(3G/HD/SD-SDI, Dual-link HD-SDI, Dual-link 3G-SDI)<br/>signal: SMPTE ST 424 compliant<br/>Dual-link HD-SDI signal: SMPTE ST 372 compliant<br/>HD-SDI signal: SMPTE ST 292 compliant<br/>SD-SDI signal: SMPTE ST 259 compliant</p>   |

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| <b>Terminals   HDMI In</b>                          | HDMI 19-pin x 1, Deep Color, compatible with HDCP,<br>NOTE: Compatible with non-interlaced signals only.  |
| <b>Terminals   DVI-D In</b>                         | DVI-D 24-pin x 1, DVI 1.0 compliant, HDCP compatible, 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,<br>G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms,<br>B: 0.7 Vp-p, 75 ohms<br>HD, VD/SYNC: TTL, high impedance, positive/negative automatic<br>NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals. |
| <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   Video in</b>              | BNC x 1, 1.0 Vp-p 75 ohms<br>Y/C Y: 1.0 Vp-p (including sync signal), C: 0.286 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,<br>G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms,<br>B: 0.7 Vp-p, 75 ohms<br>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   3D Sync 1 In/Out</b>                 | BNC x 1, 1.0 Vp-p, 75 ohms<br>Input: TTL, high impedance. Output: TTL, max. 10 mA   |
| <b>Terminals   3D Sync 2 Out</b>                    | BNC x 1, 1.0 Vp-p, 75 ohms, TTL, max. 10 mA   |
| <b>Terminals   Serial In</b>                        | D-sub 9-pin (female) x 1 for external control (RS-232C compliant)   |
| <b>Terminals   Serial 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  |
| <b>Terminals   Remoter 2 In</b>                     | D-sub 9-pin x 1 for external control (parallel)   |
| <b>Terminals   DIGITAL LINK/LAN</b>                 | RJ-45 Network connection / digital link connection (video/network/serial control)<br>compliant with PJLink™, 100base-tx, Art-Net compatible   |
| <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>                       | 578 x 323.5 x 740 mm<br>(22-3/4 x 12-23/32 x 29-1/8 inches) (without lens)  |
| <b>Weight</b>                                       | 44 kg (97.0 lbs) (without lens)   |
| <b>Operating Noise</b>                              | 43 dB   |
| <b>Operating Temperature</b>                        | Normal  |

The operating temperature range is 0°C to 50°C (32 °F to 122 °F).

(Brightness is limited at operating temperatures of 35°C (95°F) or more at altitudes from 700 m to 2,700 m (2,297 ft to 8,858 ft) above sea level, and at operating temperatures of 25°C (77°F) or more at altitudes from 2,700 m to 4,200 m (8,858 ft to 13,780 ft) above sea level.)

Eco/Long life 1/2/3

The operating temperature range is 0°C to 45°C (32 °F to 113 °F).

(Brightness is limited at operating temperatures of 35°C (95°F) or more at altitudes up to 2,700 m (8,858 ft) above sea level. The projector cannot be used at altitudes of 2,700 m (8,858 ft) or more above sea level.)

When the projector is used with a Smoke Cut Filter

The operating temperature range is 0°C to 40°C (32 °F to 104 °F).

(The projector cannot be used at altitudes of 1,400 m (4,593 ft) or more above sea level.)

\* The brightness of the light source may drop depending on the operating temperature range. The higher the temperature, the greater the drop in the brightness of the light source will be.

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| <b>Applicable Software</b> | Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 series Upgrade Kit and ET-CUK10 series Auto Screen Adjustment Kit) |
| <b>Technology</b>          | 3-chip DLP Laser  |