



Stunning image quality in a compact body designed for large venues. Laser light source, 3-chip DLP, 21 000 centre lumens, PT-RZ21K WUXGA / PT-RS20K SXGA+ , maintenance-free projector.

PT-RZ21K Series

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.

Key Features

Laser 3-chip DLP, smallest and lightest 21 000 centre lumens, PT-RZ21K WUXGA / PT-RS20K SXGA+

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



PT-RZ21K Series

<https://oc.connect.panasonic.com/nz/en/products/projectors/pt-rz21k-series>

Brightness	21,000 lm (Center)*3*5 / 20,000 lm (Normal)*4*5
Resolution	PT-RZ21K: 1920 x 1200 pixels / PT-RS20K: 1400 x 1050 pixels
Technology	Laser 3-chip DLP
DLP™ Chip Panel Size	PT-RZ21K: 24.4 mm (0.96 in) diagonal (16:10 aspect ratio) / PT-RS20K: 24.1 mm (0.95 in) diagonal (4:3 aspect ratio)
DLP™ Chip Display Method	DLP™ chip x 3, DLP™ projection system
DLP™ Chip Pixels	PT-RZ21K: 6,912,000 (1920 x 1200 x 3) pixels / PT-RS20K: 4,410,000 (1400 x 1050 x 3) pixels
Light Source	Laser Diode (Laser class: Class 1)*Class 3R for North America.
Refresh Rate	120 Hz*2
BTU Value	Max 5,159 BTU
Power Supply	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].
Power Consumption	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]
Lens	Optional (no lens included with this model), powered zoom, powered focus lens
Illumination Life of Set	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
Screen Size (Diagonal)	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
Center-to-Corner Uniformity	90%
Contrast*3	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)
Scanning Frequency Video/Y/C	fH:15.73KHz fV:59.94Hz, fH:15.63KHz fV:50Hz
Scanning Frequency RGB	• Resolution: 640 x 400 pixels to 1920 x 1200 pixels • Dot clock frequency: 162MHz or less • PIAS (Panasonic Intelligent Auto Scanning)
Scanning frequency YPBPR(YCBCR)	• Resolution: 480i/576i to 1920 x 1080 pixels • Dot clock frequency: 148.5MHz or less • The SYNC/HD and VD terminals do not support 3 value SYNC.
Scanning Frequency DVI	• Moving image signal resolution: 480i*6/576i*6 to 1920x1080 • Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interface) • Dot clock frequency: 25 MHz to 162 MHz
Scanning Frequency HDMI/DIGITAL LINK	• Moving image signal resolution: 480i*6/576i*6 to 1920x1080 • Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interface) • Dot clock frequency: 25 MHz to 162 MHz
Scanning Frequency SDI	SD-SDI signal HD-SDI signal 3G-SDI signal
Optical Axis Shift	PT-RZ21K: Vertical (from center of screen) ±55 % (±44 % with ET-D75LE6, +68 % - +78 % with ET-D75LE95) (powered) / PT-RS20K: Vertical (from center of screen) ±50 % (±40 % with ET-D75LE6, +67 % - +71 % with ET-D75LE95) (powered) PT-RZ21K: Horizontal (from center of screen) ±20 % (±15 % with ET-D75LE6, ±12 % with ET-D75LE95) (powered) / PT-RS20K: Horizontal (from center of screen) ±30 % (±20 % with ET-D75LE6, ±8 % with ET-D75LE95) (powered) NOTE: Optical axis shift function cannot be operated when used with the ET-D75LE50.
Installation	Ceiling/floor, front /rear, free 360-degree installation
Terminals RGB 1 In	BNC x 5

Terminals RGB 1 In R, G, 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
Terminals RGB 1 In Y, PB, PR (Y, CB, CR)	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms
Terminals RGB 1 In Y/C	Y: 1.0 Vp-p (including sync signal), C: 0.286 Vp-p, 75 ohms
Terminals RGB 1 In Video in	BNC x 1, 1.0 Vp-p, 75 ohms
Terminals RGB 2 In	D-sub HD 15-pin (female) x 1
Terminals RGB 2 In R, G, 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
Terminals RGB 2 In Y, PB, PR (Y, CB, CR)	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms
Terminals DVI-D In	DVI-D 24-pin x1 Single link, DVI 1.0 compliant, HDCP compatible
Terminals HDMI In	HDMI 19-pin x1 HDCP compatible, Deep Color compatible
Terminals SDI In 1	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
Terminals SDI In 2	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
Terminals DIGITAL LINK	RJ-45 HDBase™ compliant, HDCP compatible, Deep Color compatible
Terminals 3D Sync 1 In/Out / Multi Projector Sync In	BNC x 1, IN : TTL Hi-z OUT : TTL max10mA
Terminals 3D Sync 2 Out/Multi Projector Sync Out	BNC x 1, TTL max10mA
Terminals Serial In	D-sub 9-pin x 1 for external control (RS-232C compliant)
Terminals Serial Out	D-sub 9-pin x 1 for link control
Terminals Remoter 1 In	M3 jack x 1 for wired remote control
Terminals Remoter 1 Out	M3 jack x 1 for link control
Terminals Remoter 2 In	D-sub 9-pin x 1 for external control (parallel)
Terminals DIGITAL LINK/LAN	RJ-45 x 1 for network connection, 100Base-TX PjLink™ (class 2) compatible, Art-Net compatible
Terminals DC Out 5V	USB connector (type A) x 2 for power supply only (DC 5V, Max 2A)
Power Cord Length	3.0 m(9 ft 10 in)
Cabinet Materials	Molded plastic
Dimensions (W x H x D)	598 x 270 x 725 mm (23 17/32inch x 10 5/8inch x 28 17/32inch) (not including protruding parts)
Weight	*9 Approximately 49kg (108 lbs) (not including lens)
Operation Noise	*3 46dB
Operating Environment	Operating temperature: 0-50 °C (32-122 °F)*10; Operating humidity: 10-80 % (no condensation)

Note

*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.

*2 Refresh rate varies depending on scanning frequency.

*3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

*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.

*5 In AC200V, When using a projection lens other than ET-D75LE95.

*6 Pixel-Repetition signal(dot clock frequency 27.0MHz) only

*7 Only the vertical keystone correction angle can be corrected in the direction in which the projector body moves away from the screen.

*8 When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding total of 55°.

*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)