Panasonic
BUSINESS

PT-**RZ21K** Series

3-Chip DLP™ Projector

PT-**RZ21K**
PT-**RS20K**

PROJECT
WHAT'S NEXT

More of what you want, less of what you don't.

Lenses sold separately.

Worldwide Olympic Partner

Worldwide Paralympic Partner

Graphic is simulated.

The New Gold Standard in 20,000 lm Laser Projection. Compact and Filterless*1 for the Toughest Gigs.

Panasonic's groundbreaking PT-RZ21K Series 3-Chip DLP™ SOLID SHINE Laser projector combines flagship picture quality produced by the PT-DZ21K/DZ21K2 Series projector—current leader in multi-screen events staging—with the compact size and incredible durability of our mid-range PT-RZ970 Series laser projector. The PT-RZ21K Series is the world's first 3-Chip DLP™ projector*2 to feature a filterless*1 cooling system and fully sealed optics, delivering unassailable reliability in dusty conditions. Handling is effortless with just two technicians. With 20,000-hour maintenance-free*3 operation and software for expedited multi-screen mapping calibration, the rugged yet lightweight PT-RZ21K Series delivers class-beating color reproduction with dramatically reduced running costs, making it the new first choice for events professionals.

Lenses sold separately.

3-Chip DLP™ Projector PT-RZ21K Series

PT-RZ21K **PT-RS20K**	Resolution	WUXGA / SXGA+	Brightness	21,000 lm (Center)*4 / 20,000 lm*5	Contrast	20,000:1

*1 Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. *2 As of October 2017. *3 At this time, brightness will have decreased to approximately 50 % of its original level (NORMAL Mode, Dynamic Contrast Mode: 3, Image Mode: Dynamic, IEC62087: 2008 Broadcast Content, dust density of 0.15 mg/m³). Usage environment affects light-source lifespan. Replacement of parts other than the light source may be required in a shorter period. Panasonic recommends cleaning or checkup at point of purchase after approximately 20,000 hours. *4 Measured at center area of screen. *5 Measurement method is in compliance with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped.

Graphic is simulated.

Revolutionizing Multi-projector Staging with SOLID SHINE Laser

Flagship Picture Quality

Massive Brightness, Compact Body

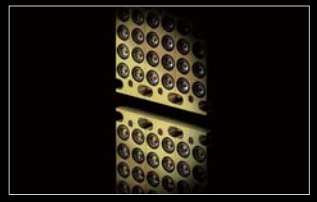
Combining SOLID SHINE Laser with next-generation 3-Chip DLP™ processing technology, the PT-RZ21K Series develops 21,000 lumens* of brightness with truly spectacular color performance superior to other lamp-based products. Dual solid-state laser-light sources and dual heat-resistant phosphor wheels work with three DLP™ modules (R/G/B) for intense brightness, true color accuracy, and high contrast on large screens.

* Luminance is measured at center of screen in NORMAL Mode.

Dual-Drive Laser Design for Reliability in Dusty Environments

Dual-Laser Drive

Solid-state laser diodes are grouped into two discrete modules. A redundancy circuit minimizes brightness- and color-uniformity loss should a laser diode fail, making the PT-RZ21K Series ideal for mission-critical applications.



Sealed and Dustproof Optical Engine

Hermetically sealed laser modules, durable filtering, and refined air-intake maintain brightness and extend life in dusty location. Product testing against severe guidelines assures stable operation in environments containing 0.150 mg of dust per cubic meter*.

* Dustproof tests are conducted to confirm operational effectiveness under conditions with 0.15 mg/m^3 of particulate matter (based on tests by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers [ASHRAE], and the Japanese Building Maintenance Association). Measurements are made using acceleration tests.

Clean Environment	WHO Europe Guideline for Dust Resistance	Japanese Building Maintenance Association ASHRAE*
0.030 mg/m^3	0.110 mg/m^3	0.150 mg/m^3
CLEAN		DUSTY
		Panasonic Dust Test Standard

* American Society of Heating, Refrigerating, and Air-Conditioning Engineers.

Supreme Flexibility

Free 360-degree Orientation

SOLID SHINE Laser enables free 360-degree installation through any axis. Together with powered lens shift and wide range of optional lenses, the PT-RZ21K Series can project images from any orientation without picture distortion.

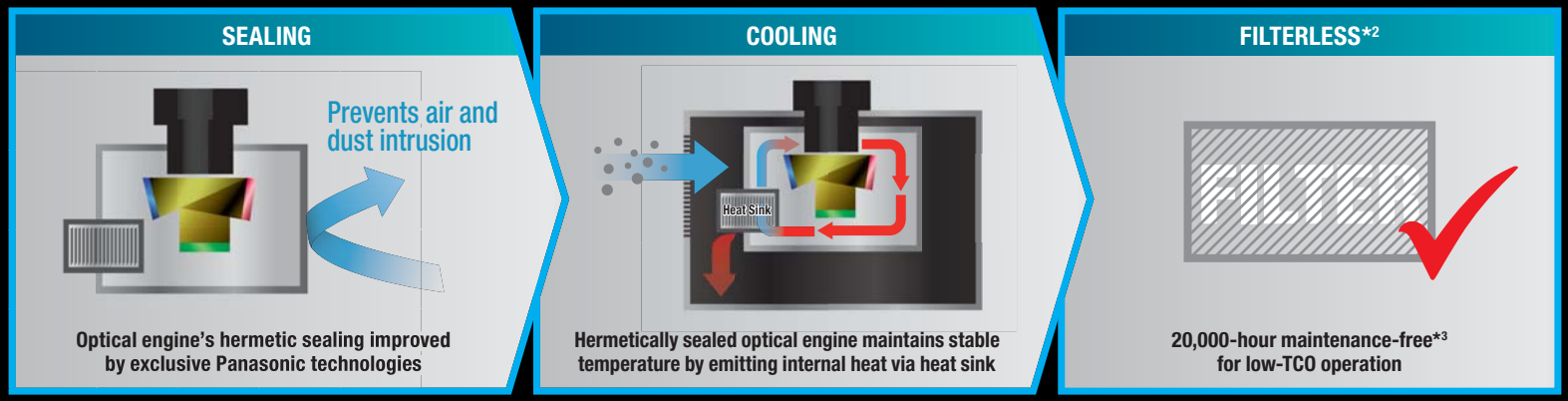
Quick Start and Quick Off

No warm-up or cool-down period is required when operating PT-RZ21K Series projectors. Images appear almost instantly, and the projector can be switched on and off whenever desired.

The World's First*1 Filterless*2 Large-Venue 3-Chip DLP™ Projector

The Panasonic PT-RZ21K Series is the world's first 3-Chip DLP™ laser projector*1 to eliminate need for a consumable air filter, enabling maintenance-free operational life of 20,000 hours*3 for the whole projector. This is achieved with a hermetically sealed optical engine and heat-sink-based internal cooling system with a one-way airflow.

The projector can operate continuously for long periods in large-scale event environments without regular maintenance, saving operators considerable time and money. With no filter, light-source lifespan of 20,000 hours, and controlled, linear picture degradation, the PT-RZ21K Series leads the field for low TCO.

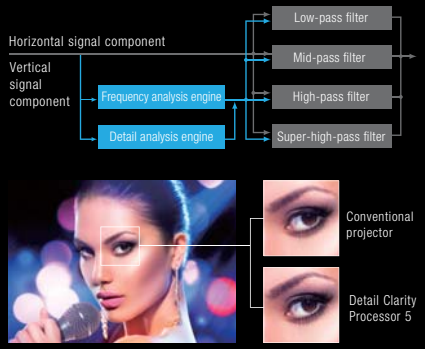


*1 As of October 2017. *2 Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. *3 At this time, brightness will have decreased to approximately 50 % of its original level (NORMAL Mode, Dynamic Contrast Mode: 3, Image Mode: Dynamic, IEC62087: 2008 Broadcast Content, dust density of 0.15 mg/m^3). Usage environment affects light-source lifespan. Replacement of parts other than the light source may be required in a shorter period. Panasonic recommends cleaning or checkup at point of purchase after approximately 20,000 hours.

Taking Reference Quality Images to the Next Level

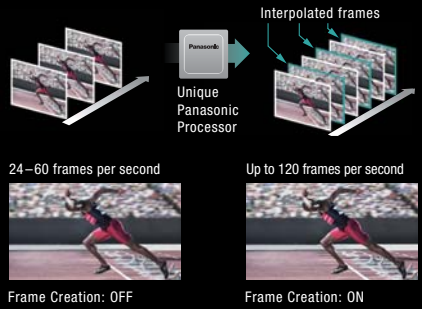
Detail Clarity Processor 5

Proprietary circuitry analyzes individual video frames to identify and clarify fine details and textures. Algorithms pull information from four frequency bandwidths, from super-high to low, to sharpen outlines, correct contours, and reduce ringing noise.



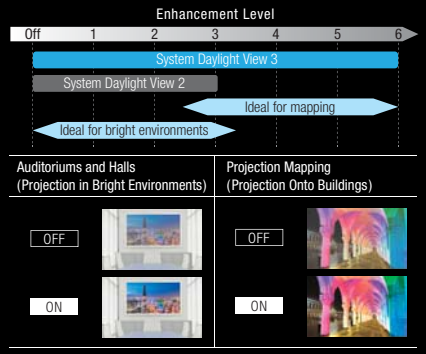
120 Hz Real Motion Processor Reduces Motion Blur

Real Motion Processor interpolates images for a 120 Hz*1 frame-rate. Smooth 120 Hz*1 reproduction is possible via simultaneous inputs (3G-SDI inputs or DVI-D/HDMI). Together with a refined optical engine to enhance focus, Real Motion Processor delivers a better sense of resolution, contrast, and fluidity.



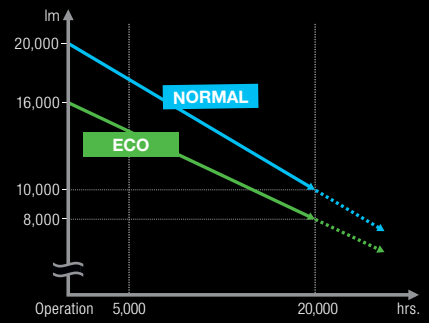
System Daylight View 3

This premium technology stops pictures washing out in bright light and assures dramatic impact for mapping and multi-projector applications. It uses sensor information to correct sharpness, gamma curves, and colors to suit on-site conditions.



NORMAL and ECO Modes

The PT-RZ21K is designed for a set 20,000-hour operational lifespan out of the box, with no filter or light-source replacement required. In suitable environments, users can select ECO Mode to arrest brightness decline, useful for permanent installations when the projector is used continuously.



DIGITAL LINK Connection

DIGITAL LINK transmits uncompressed Full HD video and control commands through a single CAT 5e or higher STP cable for distances of up to 150 m (492 ft)*2. Optional DIGITAL LINK Switcher or Digital Interface Box further simplifies installation, reduces cabling and associated costs, and enhances reliability.

Built-in Geometric Adjustment

Geo Adjustment adapts images for projection onto specially shaped screens with fine-tuning via remote control.

90 % Brightness Uniformity

SOLID SHINE Laser delivers superior brightness uniformity thanks to accurate white balance control. Brightness uniformity is greater than 90 % when measured at screen corners, edges, and center.

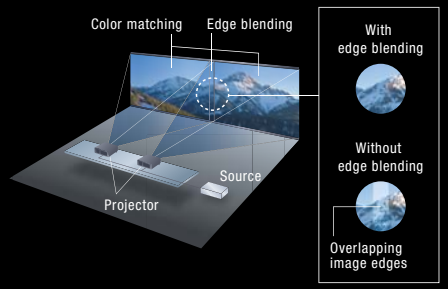
Guaranteed Laser Safety

SOLID SHINE Laser technology is as safe for eyesight as any lamp-based projector. A diffusing lens reduces the concentration of beam energy, so accidental direct exposure will not result in damage to eyesight.

Multi-screen Support System

This system optimizes multiple screens with edge blending, color matching, and digital image enlargement functions.

- **Edge Blending**: Edges of adjacent screens can be blended and their luminance controlled.
- **Color Matching**: Corrects color reproduction variations of each projector via PC control software.
- **Digital Image Enlarging**: Digital zoom up to 10x (H/V)*3, and up to 100 units (10 x 10) can be edge-blended to create large multi-screen images.



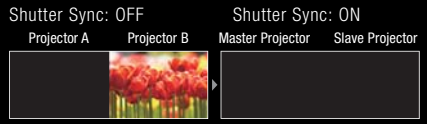
*1 Refresh-rate varies depending on vertical scanning frequency. *2 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080p. *3 While input resolution will not change, maintaining image quality is not possible for images enlarged.

Engineered for Ultimate Flexibility in Multi-screen Staging Applications

Contrast and Shutter Sync Function

Contrast Sync allows Dynamic Contrast Control to be synchronized for consistent picture quality across multiple screens. Shutter Sync, meanwhile, synchronizes shutter on/off timing.

Image luminance of all projectors is averaged for unified Dynamic Contrast, rather than each unit setting Dynamic Contrast separately. Step noise is eliminated in edge-blended areas.



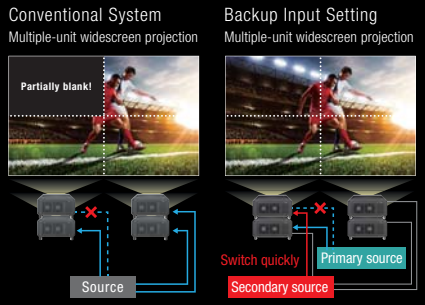
If shutter functions are not linked, shutter ON/OFF timing varies. When shutter functions of slave projectors are linked to a master, shutter ON/OFF timing is uniform*.

* Includes fade-in and fade-out effects. Projector shutter functions can be set to operate individually if desired.

Backup Input Guarantees Picture Display

Projectors switch instantly to a backup input*1 should the primary signal be disrupted, so display is maintained in situations where projection must not be interrupted. No screen-blanking occurs during backup input switching.

Note: Primary and secondary signals must be the same.

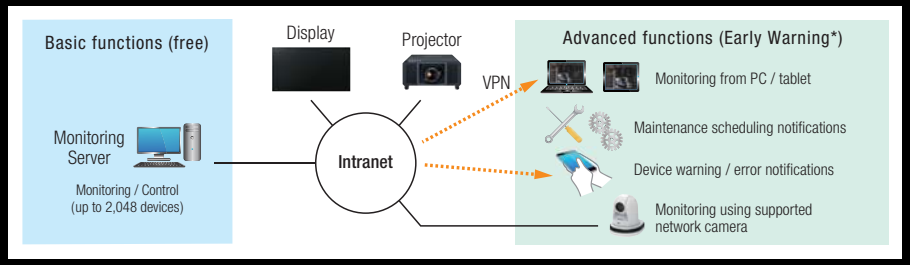


If the main input signal is disrupted, image display is cut off

If primary signal is disrupted, backup signal smoothly engages to maintain image display

New Multi Monitoring & Control Software

Making its debut with the PT-RZ21K Series, refreshed Panasonic Multi Monitoring & Control Software supports up to 2,048 devices over LAN and features system map visualization or auto-search of devices to be registered. The software is available with Early Warning functions (automatic free 90-day trial is available). These advanced functions enable real-time monitoring, abnormality detection, and advanced notification when servicing is required. Administrators can realize seamless control and real-time monitoring while preventing potential problems before they occur, saving time and enhancing system reliability.



*Software functionality varies depending on the model.

Multi-unit Brightness and Color Control

Sensors detect color and brightness apparent on screen. Projectors automatically calibrate for a uniform multi-screen image, adding a layer of convenience and cost saving both in short-term and long-term events.

Active 3D Projection Capability

This projector series is compatible with active 3D projection technology. It supports an external transmitter and active-shutter glasses, or an active filter and passive glasses*2 for viewing 3D images.

Geometry Manager Pro Software and Upgrade Kits

Geometry Manager Pro software expands onboard functionality and simplifies multi-screen setup. The free software enables multi-screen color-matching, edge-blending, and more via networked PC. Two optional plug-in kits are available: ET-UK20, which adds screen uniformity correction and creative masking functions, and ET-CUK10, which activates Auto Screen Adjustment for simultaneous and automatic setup of multiple projectors. The latter performs multi-screen and curved-screen calibration in three steps using a camera*3 and networked PC, simplifying adjustment, edge blending, color matching, stacking, brightness, and black level setup.

Compatible with Panasonic PT-DZ21K/ DZ21K2 Series 3-Chip DLP™ Projectors

The PT-RZ21K Series joins the Panasonic 3-Chip DLP™ projector family in sharing a range of mutually compatible optional accessories including frames and ultra-short-throw and zoom lenses. This reduces upgrade or replacement costs for events and staging companies with large inventories.

Supports Art-Net DMX, Crestron Connected™, and PJLink™

Art-Net DMX protocol for lighting management enables connection with lighting consoles for added functionality and control options. Crestron Connected™ and PJLink™ (Class 2) streamline integration into existing AV infrastructure.

*1 Combination of primary/secondary input terminals is fixed. Switching to secondary input (or primary input) occurs automatically when the input signal for primary input (or secondary input) is disrupted. The Backup Input Setting is enabled only when the input signal to primary and secondary terminals is the same. *2 Please contact your sales representative for further information. *3 Supported cameras: Nikon D5200/D5300/D5500.

Additional Features

DICOM Simulation Mode

This imaging mode is similar to the DICOM Part 14 medical imaging standard. It lends a film-like resolution to X-ray images, making the projector suitable for medical presentations and training.

Note: This product is not a medical instrument. Do not use for actual medical diagnosis.

Waveform Monitor Function

If source device output levels fluctuate, the original black and white levels of the image cannot be reproduced correctly. The projector can display these waveforms on screen, where they can be adjusted automatically or manually.

Power Management Reduces Downtime

Auto power management compensates for voltage fluctuations. Image display is maintained at a reduced brightness even if voltage drops below specified requirements, rather than shutting the projector off.

Supports BT.2020 Emulation and HDR

PT-RZ21K Series has emulation for BT.2020, a 4K color-space standard. It reproduces a wider color gamut than conventional standards. Additionally, they support HDR (High Dynamic Range). Image reproduction is stunning, from deepest black to sparkling bright highlights.

Projection Distance

PT-RZ21K (16:10 aspect ratio)

PT-RS20K (4:3 aspect ratio)

unit: meters (feet)

Diagonal image size	Throw distance (A)												
	ET-D75LE6		ET-D75LE10		ET-D75LE20		ET-D75LE30		ET-D75LE40		ET-D75LE8		ET-D75LE50
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.78 [70″]	1.36 (4.5)	1.63 (5.3)	1.90 (6.2)	2.46 (8.1)	2.46 (8.1)	3.58 (11.7)	3.56 (11.7)	6.94 (22.8)	6.87 (22.5)	11.04 (36.2)	10.85 (35.6)	20.69 (67.9)	1.01 (3.3)
2.03 [80″]	1.56 (5.1)	1.87 (6.1)	2.19 (7.2)	2.83 (9.3)	2.82 (9.3)	4.11 (13.5)	4.08 (13.4)	7.96 (26.1)	7.88 (25.8)	12.65 (41.5)	12.45 (40.9)	23.70 (77.8)	1.16 (3.8)
2.29 [90″]	1.77 (5.8)	2.11 (6.9)	2.47 (8.1)	3.20 (10.5)	3.19 (10.5)	4.64 (15.2)	4.61 (15.1)	8.98 (29.5)	8.88 (29.1)	14.25 (46.7)	14.06 (46.1)	26.71 (87.6)	1.32 (4.3)
2.54 [100″]	1.97 (6.5)	2.35 (7.7)	2.76 (9.0)	3.56 (11.7)	3.55 (11.7)	5.17 (16.9)	5.13 (16.8)	9.99 (32.8)	9.88 (32.4)	15.85 (52.0)	15.66 (51.4)	29.71 (97.5)	1.47 (4.8)
3.05 [120″]	2.38 (7.8)	2.84 (9.3)	3.32 (10.9)	4.30 (14.1)	4.28 (14.0)	6.22 (20.4)	6.18 (20.3)	12.03 (39.5)	11.89 (39.0)	19.05 (62.5)	18.88 (61.9)	35.73 (117.2)	1.78 (5.8)
3.81 [150″]	2.98 (9.8)	3.57 (11.7)	4.18 (13.7)	5.40 (17.7)	5.37 (17.6)	7.81 (25.6)	7.75 (25.4)	15.08 (49.5)	14.90 (48.9)	23.85 (78.3)	23.69 (77.7)	44.75 (146.8)	2.24 (7.4)
5.08 [200″]	4.00 (13.1)	4.78 (15.7)	5.60 (18.4)	7.24 (23.7)	7.19 (23.6)	10.45 (34.3)	10.38 (34.0)	20.16 (66.2)	19.92 (65.4)	31.86 (104.5)	31.72 (104.1)	59.79 (196.2)	3.01 (9.9)
6.35 [250″]	5.01 (16.4)	6.00 (19.7)	7.02 (23.0)	9.07 (29.8)	9.00 (29.5)	13.09 (42.9)	13.00 (42.6)	25.25 (82.8)	24.95 (81.8)	39.86 (130.8)	39.74 (130.4)	74.82 (245.5)	3.78 (12.4)
7.62 [300″]	6.02 (19.8)	7.21 (23.7)	8.44 (27.7)	10.91 (35.8)	10.82 (35.5)	15.73 (51.6)	15.62 (51.2)	30.34 (99.5)	29.97 (98.3)	47.87 (157.0)	47.77 (156.7)	89.86 (294.8)	4.56 (14.9)
8.89 [350″]	7.04 (23.1)	8.42 (27.6)	9.86 (32.3)	12.74 (41.8)	12.64 (41.5)	18.37 (60.3)	18.24 (59.8)	35.42 (116.2)	34.99 (114.8)	55.87 (183.3)	55.79 (183.0)	104.90 (344.2)	5.33 (17.5)
10.16 [400″]	8.05 (26.4)	9.64 (31.6)	11.28 (37.0)	14.58 (47.8)	14.46 (47.4)	21.01 (68.9)	20.86 (68.5)	40.51 (132.9)	40.01 (131.3)	63.87 (209.6)	63.82 (209.4)	119.94 (393.5)	6.10 (20.0)
12.70 [500″]	10.08 (33.1)	12.07 (39.6)	14.12 (46.3)	18.25 (59.9)	18.09 (59.4)	26.29 (86.3)	26.11 (85.7)	50.68 (166.3)	50.05 (164.2)	79.88 (262.1)	79.87 (262.0)	150.01 (492.2)	7.64 (25.1)
15.24 [600″]	12.10 (39.7)	14.49 (47.6)	16.96 (55.6)	21.92 (71.9)	21.73 (71.3)	31.58 (103.6)	31.35 (102.9)	60.85 (199.6)	60.09 (197.1)	95.89 (314.6)	95.92 (314.7)	180.08 (590.8)	9.18 (30.1)
17.78 [700″]	14.13 (46.4)	16.92 (55.5)	19.80 (65.0)	25.60 (84.0)	25.36 (83.2)	36.86 (120.9)	36.60 (120.1)	71.02 (233.0)	70.13 (230.1)	111.90 (367.1)	111.97 (367.4)	– –	10.72 (35.2)
20.32 [800″]	16.16 (53.0)	19.35 (63.5)	22.64 (74.3)	29.27 (96.0)	29.00 (95.1)	42.14 (138.3)	41.84 (137.3)	81.19 (266.4)	80.17 (263.0)	127.91 (419.6)	128.02 (420.0)	– –	12.27 (40.2)
22.86 [900″]	18.18 (59.7)	21.78 (71.5)	25.48 (83.6)	32.94 (108.1)	32.63 (107.1)	47.42 (155.6)	47.09 (154.5)	91.36 (299.7)	90.21 (296.0)	143.92 (472.2)	144.07 (472.7)	– –	13.81 (45.3)
25.40 [1000″]	20.21 (66.3)	24.21 (79.4)	28.33 (92.9)	36.61 (120.1)	36.27 (119.0)	52.70 (172.9)	52.33 (171.7)	101.53 (333.1)	100.25 (328.9)	159.93 (524.7)	160.13 (525.3)	– –	15.35 (50.4)

Diagonal image size	Throw distance (A)												
	ET-D75LE6		ET-D75LE10		ET-D75LE20		ET-D75LE30		ET-D75LE40		ET-D75LE8		ET-D75LE50
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.78 [70″]	1.55 (5.1)	1.85 (6.1)	2.17 (7.1)	2.80 (9.2)	2.80 (9.2)	4.07 (13.4)	4.04 (13.3)	7.88 (25.9)	7.80 (25.6)	12.52 (41.1)	12.33 (40.5)	23.47 (77.0)	1.15 (3.8)
2.03 [80″]	1.78 (5.8)	2.13 (7.0)	2.49 (8.2)	3.22 (10.6)	3.21 (10.5)	4.67 (15.3)	4.64 (15.2)	9.03 (29.6)	8.94 (29.3)	14.34 (47.0)	14.15 (46.4)	26.88 (88.2)	1.33 (4.3)
2.29 [90″]	2.01 (6.6)	2.40 (7.9)	2.81 (9.2)	3.63 (11.9)	3.62 (11.9)	5.27 (17.3)	5.23 (17.2)	10.19 (33.4)	10.07 (33.0)	16.15 (53.0)	15.97 (52.4)	30.28 (99.3)	1.50 (4.9)
2.54 [100″]	2.24 (7.3)	2.68 (8.8)	3.13 (10.3)	4.05 (13.3)	4.03 (13.2)	5.86 (19.2)	5.82 (19.1)	11.34 (37.2)	11.21 (36.8)	17.96 (58.9)	17.78 (58.3)	33.69 (110.5)	1.67 (5.5)
3.05 [120″]	2.70 (8.8)	3.22 (10.6)	3.77 (12.4)	4.88 (16.0)	4.86 (15.9)	7.06 (23.2)	7.01 (23.0)	13.64 (44.8)	13.48 (44.2)	21.59 (70.8)	21.42 (70.3)	40.50 (132.9)	2.02 (6.6)
3.81 [150″]	3.38 (11.1)	4.05 (13.3)	4.74 (15.5)	6.13 (20.1)	6.09 (20.0)	8.85 (29.0)	8.79 (28.8)	17.09 (56.1)	16.89 (55.4)	27.02 (88.7)	26.87 (88.2)	50.71 (166.4)	2.55 (8.4)
5.08 [200″]	4.53 (14.9)	5.42 (17.8)	6.35 (20.8)	8.21 (26.9)	8.15 (26.7)	11.84 (38.9)	11.76 (38.6)	22.85 (75.0)	22.58 (74.1)	36.09 (118.4)	35.96 (118.0)	67.73 (222.2)	3.42 (11.2)
6.35 [250″]	5.68 (18.6)	6.80 (22.3)	7.96 (26.1)	10.28 (33.7)	10.20 (33.5)	14.83 (48.7)	14.73 (48.3)	28.61 (93.9)	28.26 (92.7)	45.15 (148.1)	45.04 (147.8)	84.75 (278.1)	4.29 (14.1)
7.62 [300″]	6.83 (22.4)	8.17 (26.8)	9.55 (31.4)	12.36 (40.6)	12.26 (40.2)	17.82 (58.5)	17.70 (58.1)	34.36 (112.7)	33.94 (111.4)	54.21 (177.8)	54.13 (177.6)	101.78 (333.9)	5.17 (16.9)
8.89 [350″]	7.97 (26.2)	9.55 (31.3)	11.17 (36.7)	14.44 (47.4)	14.32 (47.0)	20.81 (68.3)	20.67 (67.8)	40.12 (131.6)	39.63 (130.0)	63.27 (207.6)	63.21 (207.4)	118.80 (389.8)	6.04 (19.8)
10.16 [400″]	9.12 (29.9)	10.92 (35.8)	12.78 (41.9)	16.52 (54.2)	16.38 (53.7)	23.80 (78.1)	23.63 (77.5)	45.88 (150.5)	45.31 (148.7)	72.33 (237.3)	72.30 (237.2)	135.82 (445.6)	6.91 (22.7)
12.70 [500″]	11.41 (37.4)	13.67 (44.8)	16.00 (52.5)	20.68 (67.8)	20.49 (67.2)	29.78 (97.7)	29.57 (97.0)	57.39 (188.3)	56.68 (186.0)	90.45 (296.8)	90.47 (296.8)	169.87 (557.3)	8.66 (28.4)
15.24 [600″]	13.71 (45.0)	16.42 (53.9)	19.21 (63.0)	24.83 (81.5)	24.61 (80.7)	35.76 (117.3)	35.51 (116.5)	68.91 (226.1)	68.05 (223.3)	108.58 (356.2)	108.64 (356.4)	203.91 (669.0)	10.40 (34.1)
17.78 [700″]	16.00 (52.5)	19.17 (62.9)	22.43 (73.6)	28.99 (95.1)	28.72 (94.2)	41.74 (136.9)	41.45 (136.0)	80.42 (263.8)	79.41 (260.5)	126.70 (415.7)	126.81 (416.0)	– –	12.15 (39.9)
20.32 [800″]	18.30 (60.0)	21.92 (71.9)	25.65 (84.1)	33.15 (108.8)	32.84 (107.7)	47.72 (156.6)	47.38 (155.5)	91.93 (301.6)	90.78 (297.8)	144.82 (475.1)	144.98 (475.7)	– –	13.90 (45.6)
22.86 [900″]	20.59 (67.6)	24.66 (80.9)	28.86 (94.7)	37.31 (122.4)	36.95 (121.2)	53.70 (176.2)	53.32 (174.9)	103.45 (339.4)	102.15 (335.1)	162.95 (534.6)	163.15 (535.3)	– –	15.64 (51.3)
25.40 [1000″]	22.89 (75.1)	27.41 (89.9)	32.08 (105.2)	41.46 (136.0)	41.07 (134.7)	59.68 (195.8)	59.26 (194.4)	114.96 (377.2)	113.52 (372.4)	181.07 (594.1)	181.33 (594.9)	– –	17.39 (57.0)

PT-RZ21K (16:10 aspect ratio)

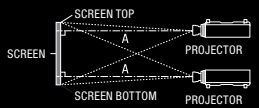
PT-RS20K (4:3 aspect ratio)

unit: meters (feet)

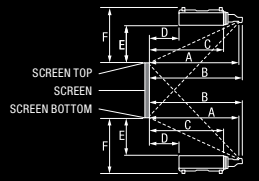
Diagonal image size	ET-D75LE95								ET-D75LE95					
	(A)	(B)	(C)	(D)	(E)		(F)		(A)	(B)	(C)	(D)	(E)	(F)
					min.	max.	min.	max.						
3.05 [120″]	0.94 (3.1)	0.97 (3.2)	0.65 (2.1)	-0.07 (0.2)	0.17 (0.6)	0.33 (1.1)	0.49 (1.6)	0.65 (2.1)	0.96 (3.2)	0.99 (3.3)	0.67 (2.2)	-0.05 (0.2)	0.18 (0.6)	0.50 (1.6)
3.81 [150″]	1.18 (3.9)	1.20 (4.0)	0.88 (2.9)	0.16 (0.5)	0.24 (0.8)	0.44 (1.5)	0.57 (1.9)	0.77 (2.5)	1.20 (3.9)	1.23 (4.0)	0.91 (3.0)	0.18 (0.6)	0.25 (0.8)	0.58 (1.9)
5.08 [200″]	1.56 (5.1)	1.59 (5.2)	1.27 (4.2)	0.54 (1.8)	0.37 (1.2)	0.63 (2.1)	0.69 (2.3)	0.96 (3.1)	1.59 (5.2)	1.62 (5.3)	1.30 (4.3)	0.58 (1.9)	0.38 (1.2)	0.70 (2.3)
6.35 [250″]	1.95 (6.4)	1.97 (6.5)	1.65 (5.4)	0.93 (3.0)	0.49 (1.6)	0.82 (2.7)	0.82 (2.7)	1.15 (3.8)	1.99 (6.5)	2.02 (6.6)	1.69 (5.6)	0.97 (3.2)	0.50 (1.7)	0.83 (2.7)
7.62 [300″]	2.33 (7.6)	2.36 (7.7)	2.04 (6.7)	1.31 (4.3)	0.62 (2.0)	1.02 (3.3)	0.94 (3.1)	1.34 (4.4)	2.38 (7.8)	2.41 (7.9)	2.09 (6.8)	1.36 (4.5)	0.63 (2.1)	0.95 (3.1)
8.89 [350″]	2.72 (8.9)	2.74 (9.0)	2.42 (7.9)	1.70 (5.6)	0.74 (2.4)	1.21 (4.0)	1.06 (3.5)	1.53 (5.0)	2.77 (9.1)	2.80 (9.2)	2.48 (8.1)	1.76 (5.8)	0.76 (2.5)	1.08 (3.5)
10.16 [400″]	3.10 (10.2)	3.13 (10.3)	2.81 (9.2)	2.08 (6.8)	0.86 (2.8)	1.40 (4.6)	1.19 (3.9)	1.72 (5.6)	3.17 (10.4)	3.20 (10.5)	2.87 (9.4)	2.15 (7.1)	0.88 (2.9)	1.21 (4.0)
12.70 [500″]	3.87 (12.7)	3.90 (12.8)	3.58 (11.7)	2.85 (9.4)	1.11 (3.6)	1.78 (5.8)	1.43 (4.7)	2.10 (6.9)	3.95 (13.0)	3.98 (13.1)	3.66 (12.0)	2.94 (9.6)	1.14 (3.7)	1.46 (4.8)
15.24 [600″]	4.64 (15.02)	4.67 (15.3)	4.35 (14.3)	3.62 (11.9)	1.36 (4.5)	2.16 (7.1)	1.68 (5.5)	2.48 (8.1)	4.74 (15.5)	4.77 (15.6)	4.45 (14.6)	3.72 (12.2)	1.39 (4.6)	1.71 (5.6)

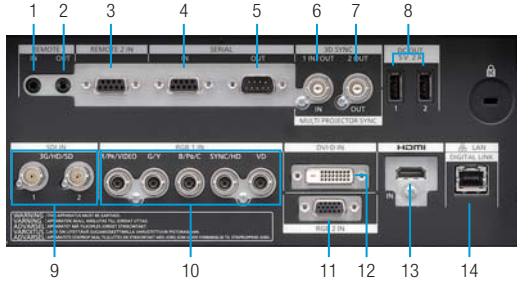
Dimension Definitions

If using lens other than the ET-D75LE95



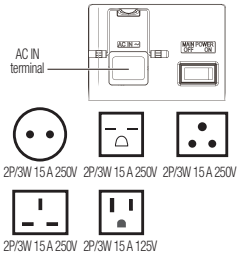
If using the ET-D75LE95





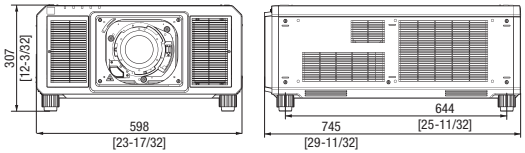
Terminals

1. REMOTE 1 IN terminal
2. REMOTE 1 OUT terminal
3. REMOTE 2 IN terminal
4. SERIAL IN terminal
5. SERIAL OUT terminal
6. MULTI PROJECTOR SYNC IN 3D SYNC 1 IN/OUT terminal
7. MULTI PROJECTOR SYNC OUT 3D SYNC 2 OUT terminal
8. DC OUT 1/DC OUT 2 terminal
9. SDI IN 1/SDI IN 2 terminal
10. RGB 1 IN terminal
11. RGB 2 IN terminal
12. DVI-D IN terminal
13. HDMI IN terminal
14. LAN/DIGITAL LINK terminal



Dimensions

Unit: mm (inches)



Specifications

Model		PT-RZ21K	PT-RS20K
Power supply		AC 200 V–240 V, 7.7 A, 50/60 Hz (Light output will decrease to approximately 50 % when using the projector with AC 100 V to AC 120 V [9.6 A].)	
Power consumption		1,510 W (0.3 W with Standby Mode set to ECO*1, 4 W with Standby Mode set to NORMAL)	
DLP™ chip	Panel size	24.4 mm (0.96 inches) diagonal (16:10 aspect ratio)	24.1 mm (0.95 inches) diagonal (4:3 aspect ratio)
	Display method	DLP™ chip × 3, DLP™ projection system	
	Pixels	6,912,000 (1920 x 1200 x 3) pixels	4,410,000 (1400 x 1050 x 3) pixels
Refresh rate		120 Hz*2	
Lens		Optional (no lens included with this model)	
Light source		Laser diode, Light source life: 20,000 hours (NORMAL Mode, brightness decreases to approx. 50 %)	
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	1.78–25.4 m (70–1,000 in) with 4:3 aspect ratio 1.78–15.24 m (70–600 in) with the ET-D75LE8, 4:3 aspect ratio 3.05–15.24 m (120–600 in) with the ET-D75LE95, 4:3 aspect ratio
Brightness		20,000 lm / 21,000 lm (Center)	
Center-to-corner uniformity		90 %	
Contrast		20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)	
Resolution		1920 x 1200 pixels	1400 x 1050 pixels
Scanning frequency	SD-SDI	SMPTE ST 259 compliant, [YCBCR 4:2:2 10-bit] 480/60i, 576/50i	
	HD-SDI	SMPTE ST 292 compliant, [YPBPR 4:2:2 10-bit] 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p	
	Dual-link HD-SDI	SMPTE ST 372 compliant, [YPBPR 4:2:2 10-bit] 1080/50p, 1080/60p [RGB 4:4:4 12-bit/10-bit] 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p, 2048 x 1080/24p, [X'Y'Z' 4:4:4 12-bit] 2048 x 1080/24p	
	3G-SDI	SMPTE ST 424,425–2 compliant, [RGB 4:4:4 12-bit/10-bit] 1080/60i, 1080/50i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p, 2048 x 1080/24p, 2048 x 1080/25p, 2048 x 1080/30p, [YPBPR 4:2:2 10-bit] 1080/60p, 1080/50p, 2048 x 1080/48p, 2048 x 1080/50p, 2048 x 1080/60p, [X'Y'Z' 4:4:4 12-bit] 2048 x 1080/24p, 2048 x 1080/25p, 2048 x 1080/30p	
	Dual-link 3G-SDI	SMPTE ST 425–3 compliant, [YPBPR 4:4:4 12-bit/10-bit] 1080/60p, 1080/50p, 2048 x 1080/60p, 2048 x 1080/50p, 2048 x 1080/48p, [RGB 4:4:4 12-bit/10-bit] 1080/60p, 1080/50p, 2048 x 1080/60p, 2048 x 1080/50p, 2048 x 1080/48p	
	HDMI/DVI-D/DIGITAL LINK	480/60i*3, 576/50i*3, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, 640 x 400–WUXGA (1920 x 1200) (compatible with non-interlaced signals only), dot clock: 25–162 MHz	
	RGB	fH: 15–100 kHz, fV: 24–120 Hz, dot clock: 162 MHz or less	
	YPBPR (YCBCR)	fH: 15.73 kHz, fV: 59.94 Hz [525i (480i)], fH: 15.63 kHz, fV: 50 Hz [625i (576i)], fH: 31.47 kHz, fV: 59.94 Hz [525p (480p)], fH: 31.25 kHz, fV: 50 Hz [625p (576p)], fH: 45.00 kHz, fV: 60 Hz [750 (720)/60p], fH: 37.50 kHz, fV: 50 Hz [750 (720)/50p], fH: 33.75 kHz, fV: 60 Hz [1125 (1080)/60i], fH: 28.13 kHz, fV: 50 Hz [1125 (1080)/50i], fH: 28.13 kHz, fV: 25 Hz [1125 (1080)/25p], fH: 27.00 kHz, fV: 24 Hz [1125 (1080)/24p], fH: 27.00 kHz, fV: 48 Hz [1125 (1080)/24sF], fH: 33.75 kHz, fV: 30 Hz [1125 (1080)/30p], fH: 67.50 kHz, fV: 60 Hz [1125 (1080)/60p], fH: 56.25 kHz, fV: 50 Hz [1125 (1080)/50p]	
	Video/YC	fH: 15.73 kHz, fV: 59.94 Hz (NTSC/NTSC4.43/PAL-M/PAL60), fH: 15.63 kHz, fV: 50 Hz (PAL/PAL-N/SECAM)	
Optical axis shift*4	Vertical (from center of screen)	±55 % (±44 % with ET-D75LE6, +68 % – +78 % with ET-D75LE95) (powered)	±50 % (±40 % with ET-D75LE6, +67 % – +71 % with ET-D75LE95) (powered)
	Horizontal (from center of screen)	±20 % (±15 % with ET-D75LE6, ±12 % with ET-D75LE95) (powered)	±30 % (±20 % with ET-D75LE6, ±8 % with ET-D75LE95) (powered)
Keystone correction range		Vertical: ±40 ° (± 22 ° with ET-D75LE50, ±28 ° with ET-D75LE6), Horizontal: ±15 °	
Keystone correction range with optional Upgrade Kit ET-UK20		Vertical: ±45 ° (± 40 ° with ET-D75LE10/20, ±22 ° with ET-D75LE50, ±28 ° with ET-D75LE6), Horizontal: ±40 ° (±15 ° with ET-D75LE50/6), Up to a total of ±55 ° during simultaneous horizontal and vertical correction	
Installation		Horizontal/vertical, free 360-degree installation	
Terminals	SDI IN 1	BNC × 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link-A), Dual-link 3G-SDI (Link 1)	
	SDI IN 2	BNC × 1: 3G/HD/SD-SDI input, Dual-link HD-SDI (Link-B), Dual-link 3G-SDI (Link 2)	
	HDMI IN	HDMI × 1 (Deep Color, compatible with HDCP)	
	DVI-D IN	DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP) (Single-link only)	
	RGB 1 IN	RGB × 1 (BNC × 5): RGB/YPBPR/YC/VIDEO	
	RGB 2 IN	D-sub HD 15-pin (female) × 1: RGB/YPBPR	
	MULTI PROJECTOR SYNC IN / 3D SYNC 1 IN/OUT	BNC × 1	
	MULTI PROJECTOR SYNC OUT/ 3D SYNC 2 OUT	BNC × 1	
	SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)	
	SERIAL OUT	D-sub 9-pin (male) × 1 for link control	
	REMOTE 1 IN / OUT	M3 × 1 for wired remote control, link control	
	REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)	
	DC OUT	USB (Type A) x 2, DC 5 V, total of 2 A	
	LAN/DIGITAL LINK	RJ-45 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PJLink™ (Class 2), Deep Color, HDCP	
Dimensions (W × H × D)		598 × 270 × 725 mm (23 17/32" x 10 5/8" x 28 17/32") (not including protruding parts)	
Weight		49.0 kg (108 lbs)	
Operation noise*5		46 dB	
Cabinet materials		Molded plastic	
Operating environment		Operating temperature: 0–50 °C (32–122 °F)*6; Operating humidity: 10–80 % (no condensation)	
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control	

*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 Only compatible with dot-clock frequency of 27 MHz (pixel repetition signal). *4 Optical axis shift is not supported on the ET-D75LE50. *5 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *6 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.

Optional Accessories

ET-D75LE50
Fixed-Focus Lens

ET-D75LE95
Fixed-Focus Lens

ET-D75LE6
Zoom Lens

ET-D75LE10
Zoom Lens

ET-D75LE20
Zoom Lens

ET-D75LE30
Zoom Lens

ET-D75LE40
Zoom Lens

ET-D75LE8
Zoom Lens

ET-PKD520H
Ceiling Mount Bracket for High Ceilings

ET-PKD520B
Projector Mount Bracket

ET-PKD520S
Ceiling Mount Bracket for Low Ceilings

ET-PFD510
Frame

ET-UK20
Geometry Manager Pro Software Upgrade Kit

ET-CUK10 / ET-CUK10P
Auto Screen Adjustment Upgrade Kit

ET-D75MKS10*
Stepping Motor Kit

* Projector may require the latest firmware update. Calibration is required each time the lens is mounted.

ET-PLF10*
Lens Fixed Attachment

* This attachment may be required in some installation environments.

ET-YFB200G
DIGITAL LINK Switcher

ET-YFB100G
Digital Interface Box

Panasonic®

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