Panasonic
ideas for life

PT-**DZ21K** Series
3-Chip DLP™ Projectors

PT-**DZ21K**
PT-**DS20K**
PT-**DW17K**

20,000 lm* of Brightness and Rich Features from an Extraordinarily Compact Body

* 17,000 lm for the PT-DW17K.

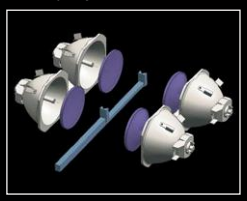
PICTURE BY DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

Official Worldwide Olympic Partner

Splendid Images from a Compact Body

Incredible 20,000 lm*1 of Brightness

Panasonic's unique quad-lamp system, with its new high-power UHM lamps, has helped to make the body extremely compact while providing an astounding 20,000 lm*1 of brightness.



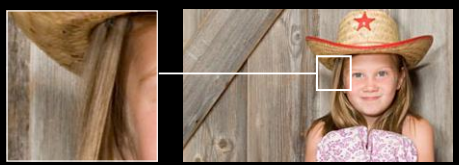
Lamp mode	Brightness (lumens)		Lamp replacement cycle (hours)*2
	PT-DZ21K PT-DS20K	PT-DW17K	
Quad	20,000	17,000	2,000
Triple	15,000	12,750	2,600
Dual	10,000	8,500	4,000
Single	5,000	4,250	8,000

Dynamic Iris for a High 10,000:1*3 Contrast Ratio

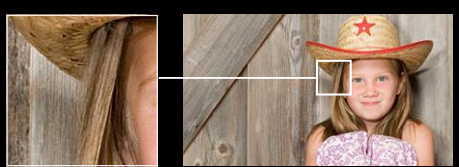
Panasonic's Dynamic Iris uses a scene-linking aperture mechanism to achieve a remarkable 10,000:1*3 contrast without lowering its high brightness. This helps to reproduce deeper, richer blacks, and provides images with more detailed textures.

Detail Clarity Processor 3 Gives Natural Clarity to Even the Finest Details

This unique Panasonic circuit optimizes the sharpness of each image, based on the super-high-, high-, medium-, and low-frequency components of the extracted image information. The resulting images have more natural, lifelike expression.



Conventional sharpness control



Detail Clarity Processor 3

System Daylight View 2 for Enhanced Color Perception

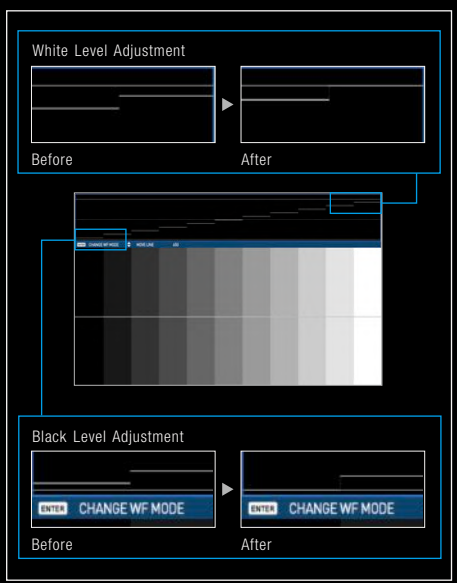
This unique Panasonic technology optimizes image quality to improve the color perception of the projected image in bright rooms. With a brightness of 20,000 lm*1, it provides highly comfortable viewing even in bright lighting, and allows viewers to concentrate easily on the images.

Without System Daylight View 2

With System Daylight View 2

Waveform Monitor Function

When the output level of the source device fluctuates due to the performance of the device or its cable connections, the original black and white levels of the image content cannot be reproduced correctly. With the PT-DZ21K Series projector you can view the waveforms on the screen and adjust the settings either automatically or manually as you prefer.



DICOM Simulation Mode*4

This imaging mode is similar to DICOM part 14, which is a medical imaging standard. It reproduces X-ray images with remarkable clarity.

Normal mode

DICOM simulation mode

Active 3D Projection Capability (PT-DZ21K/DS20K)

The series is compatible with both passive and active 3D projection systems. It combines with either a separate, external 100/120/144 Hz drive with IR emitter and active shutter glasses, or an active filter and passive glasses, for viewing 3D images.

Advanced Technologies for Excellent Image Quality

• 3D color management system • Full 10-bit image processing • Progressive cinema scan (3:2 pulldown) • Dynamic sharpness control • Digital noise reduction • IP conversion • AI scene control • 2:2 pulldown mode • sRGB compatibility • Fine-adjustable color temperature

High Reliability and Low TCO with Easy Maintenance

Low TCO and an Environmentally Friendly Design

The PT-DZ21K Series projectors lower the total cost of ownership (TCO) because they have a lamp replacement cycle of up to 2,000 hours*2. Their environmentally friendly design also includes a low power consumption of 2,300 W.

***1** The PT-DW17K has 17,000 lm of brightness. ***2** The usage environment affects the lamp replacement cycle. ***3** Full on/off, with dynamic iris set to "3". ***4** This product is not a medical instrument. Do not use it for actual medical diagnosis.

The Panasonic PT-DZ21K Series of flagship models feature breathtakingly beautiful images and reliable operation. A host of creative capabilities meet the projection needs of highly critical professionals.

Four-Lamp System Enables Stable, Extended Operation

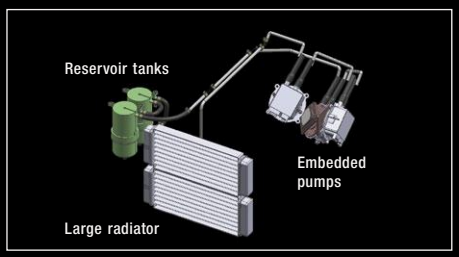
The four-lamp system allows the projector to keep working even if a lamp should fail. The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection. Quad, Triple, Dual and Single Lamp modes can be used.

Easy Lamp Replacement

For easier maintenance, you can replace the lamp from the rear. This makes it easy to replace a lamp while the projector is still in the mounting bracket or dual stacked.

Liquid Cooling System Attains a High Level of Reliability

This new liquid cooling system directly cools the DLP™ chip to improve performance and enable operation up to 45 °C (113 °F).*5 It allows quiet (49 dB) and versatile use while stabilizing performance. It also helps to make the body compact. And the system is hermetically sealed, so you don't need to replenish the liquid.



Eco Filter that Needs No Maintenance for up to 12,000 Hours*6

The Eco Filter has an electrostatic Micro Cut Filter that collects minute dust particles with an ion effect. It combines with the dust-resistant cabinet to enable long-term use even under harsh conditions. Its maintenance cycle of up to 12,000 hours reduces hassle, and the environmental design lets you wash the filter with water and reuse it.*7

System and Installation Flexibility with Diverse Functions

Flexible Installation

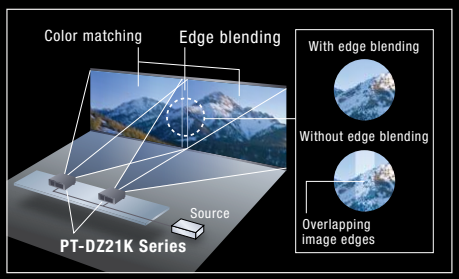
The wide adjustment range of the powered horizontal/vertical lens shift function can be easily adjusted with the remote control. The unit can also be rotated 360° vertically*8, to accommodate various installation conditions. The lens-centered design contributes to easy installation.

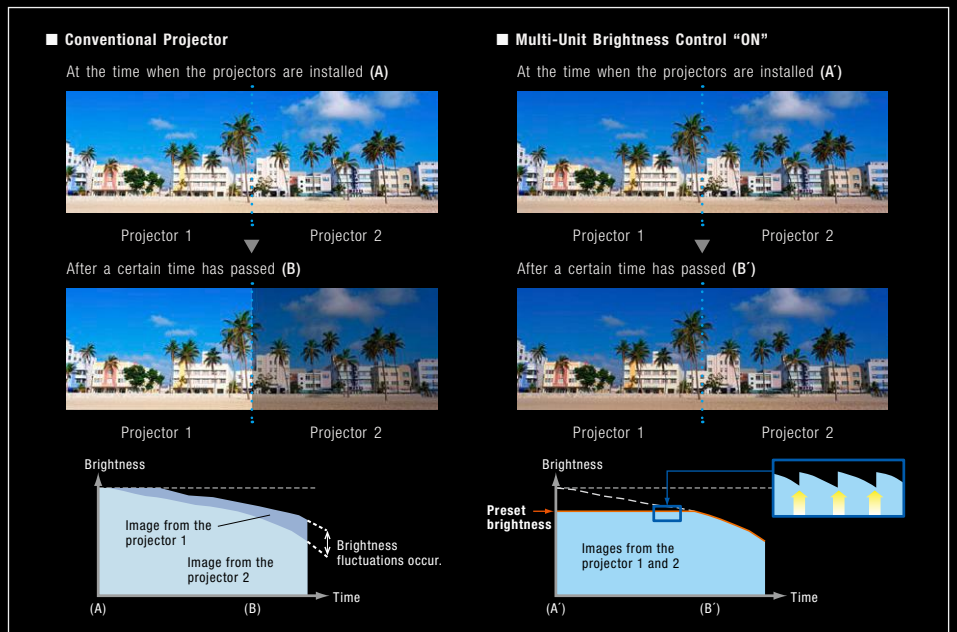
Multi-Unit Brightness Control

This function automatically corrects the brightness fluctuations that occur over time in the individual projectors of a multi-screen system. Up to eight projectors can be controlled by connecting to each other via a hub, and this can be increased to a maximum of 2,048 projectors by using "Multi Projector Monitoring & Control Software Ver. 2.7."

Multi-Screen Support System Seamlessly Connects Multiple Screens

- **Edge Blending**: The edges of adjacent screens can be blended and their luminance controlled.
- **Color Matching**: This function corrects for slight variations in the color reproduction range of individual projectors. The PC software assures easy, accurate control.
- **Multi-Screen Processor**: The PT-DZ21K Series can project large, multi-screen images without any additional equipment. Up to 100 units (10 × 10) can be edge-blended at a time.





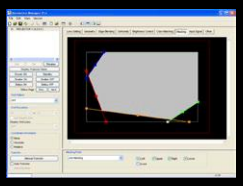
*5 The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the fan control is set to HIGH ALTITUDE MODE (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). When the projector is used with the ET-SFR510 Smoke Cut Filter, the operating temperature range is 0 °C to 35 °C (32 °F to 95 °F), and the projector cannot be used in places at high altitude. *6 The usage environment affects the filter maintenance cycle.*7 When washing with water, please follow the procedures listed in the operating instructions. Also, we recommend replacing the filter with a new one after it has been washed and reused twice. If the filter is not sufficiently clean after washing, replace it with a new one.
*8 A special fixture must be attached to the lamp case when the projector is placed at an angle within ±30° (upward/downward) of the vertical.

Geometric Adjustment for Specially Shaped Screens (PT-DZ21K/DS20K)

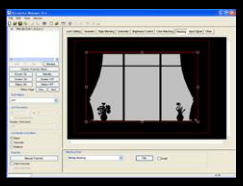
This function adjusts the image for projection onto spherical, cylindrical and other specially shaped screens. You can make the adjustment easily using only the remote control, with no external equipment needed.

Optional Upgrade Kit (ET-UK20) Featuring Geometry Manager Pro (PT-DZ21K/DS20K)

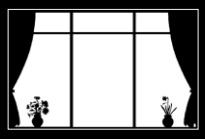
The new Geometry Manager Pro software included in the optional upgrade kit supports Color Matching, Edge Blending, uniformity correction, and other useful functions for multiprojector setups (max. 32 units). It also allows creative masking using four lines or bitmap data. And its flexible and complex geometric adjustment capability suits a wide variety of screen shapes.



Line masking



Bitmap masking:
Detailed masking is also possible with an image of up to 1,920 by 1,200 pixels for the PT-DZ21K and 1,400 by 1,050 pixels for the PT-DS20K.



Create masking data...

Use it to overlap the projection image...

And the image is projected only in the designated areas.

Multiple Terminals

The PT-DZ21K Series has an array of terminals, including DVI-D, HDMI and two RGB inputs. The PT-DZ21K and PT-DS20K feature a 3D-ready HD/SD-SDI input and 3D sync terminals to connect an emitter for 3D projection.

Portrait Mode Capability (Option)*9

Portrait projection is possible by mounting the optional ET-LAD510P or ET-LAD510PF lamp units, updating the projector's firmware to MAIN Ver. 2.00 or later, and installing the projector with its terminal side surface facing downward.

Multi Projector Monitoring & Control Software Ver. 2.7

Panasonic's original Multi Projector Monitoring & Control Software Ver. 2.7 freeware lets you control and monitor multiple projectors at the same time over a wired LAN. If a problem occurs, an alarm message is sent to the monitoring/controlling PC.

Other Valuable Features

• Mechanical lens shutter with fade in/out effect • P-in-P function*10 • 30 m (98.4 ft) long-range wireless remote control with LED backlight • ID assignment for up to 64 units • Control device setup function • Built-in test pattern • Selectable 10-language on-screen menu (English, German, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese, Korean) • RoHS Directive compliant • Anti-theft features with chain opening

Ecology-Conscious Design

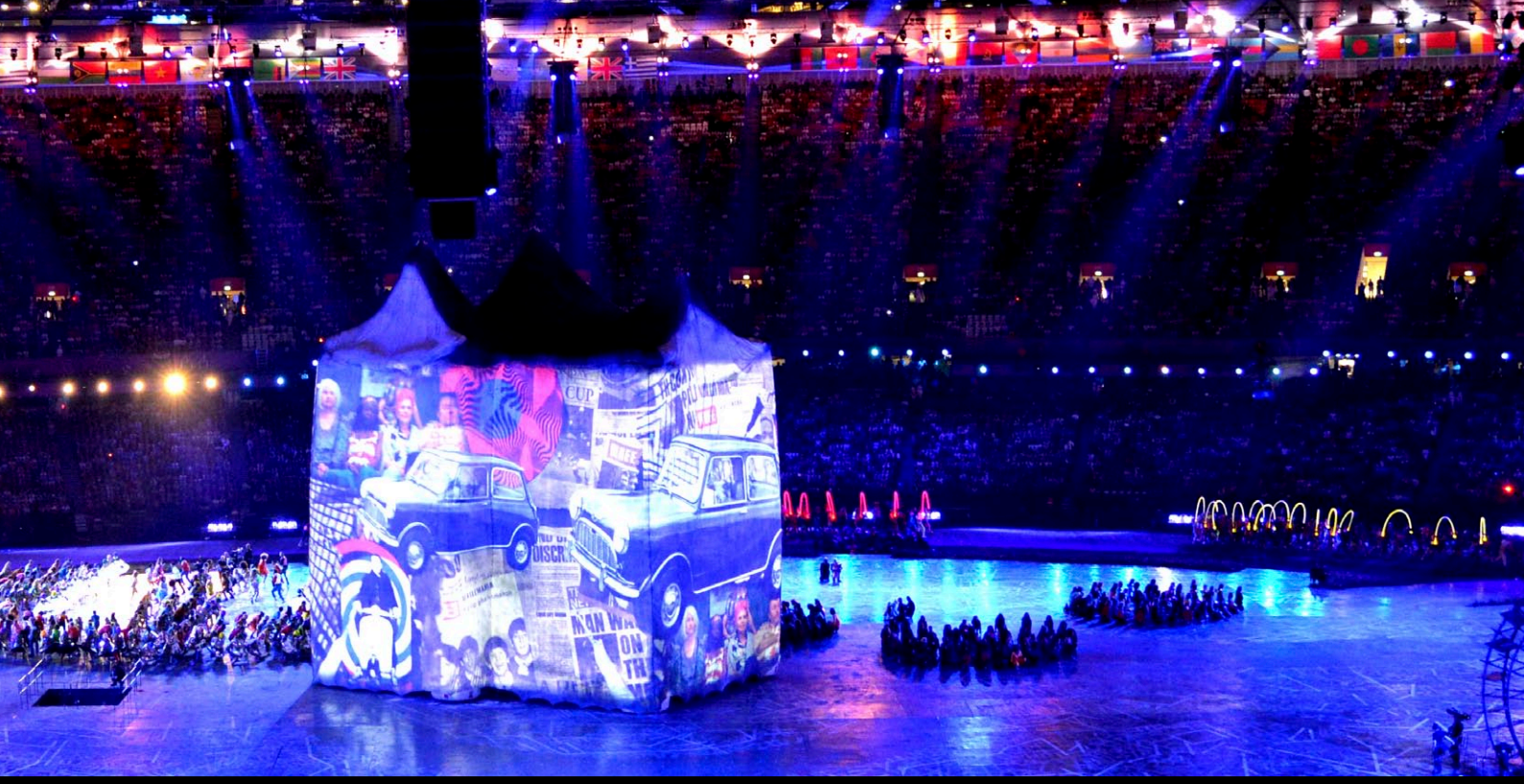
- No halogenated flame retardants are used in the cabinet.
- Lead-free solder is used to mount components to the printed circuit boards.
- Stand-by power consumption of only 0.3 W*11.
- Auto Power Save activates standby mode when no signal is input.

made in Japan

All PT-DZ21K Series projectors are carefully manufactured at the Panasonic factory in Japan, under strict quality control. This is another, very important advantage of a Panasonic projector.

The PT-DZ21K Series lit up the house in the center of the Olympic Stadium.

***9** Please contact the sales representative with regard to the frame for portrait orientation. Installation is possible only with the terminal side facing downward. Horizontal rotation and vertical rotation are both limited to 15 degrees. Also, the lamp replacement cycle becomes 500 hours, and this cycle is affected by the usage environment. ***10** This function cannot be used with some input signals and selected inputs. ***11** With the STANDBY MODE set to ECO. When the STANDBY MODE is set to ECO, network functions such as power on over the LAN will not operate. Also, only certain commands can be received for external control using the serial terminal.

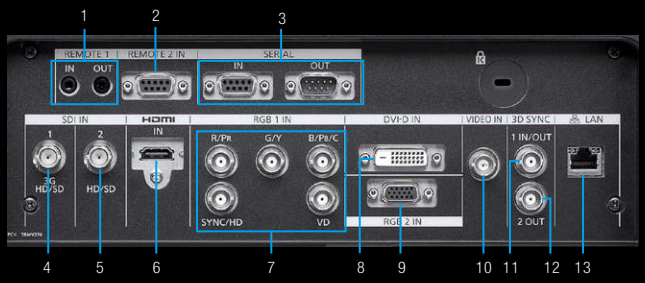


PT-DZ21K Series Projectors Lit Up the Opening Ceremony of the London 2012 Olympic Games

The opening ceremony, which was titled “Isles of Wonder,” used 26 PT-DZ21K Series projectors to wrap this colorful house with bright, incredibly vivid images.

Thirteen PT-DZ21K Series projectors were installed in portrait mode. Each unit was covered with a roof to protect against rain.

Terminals



1 Remote 1 input/output
2 Remote 2 input
3 Serial input/output
4 SDI 1 input (PT-DZ21K/DS20K only)
5 SDI 2 input (PT-DZ21K/DS20K only)
6 HDMI input
7 RGB 1 input
8 DVI-D input
9 RGB 2 input
10 Video input
11 3D sync 1 input/output (PT-DZ21K/DS20K only)
12 3D sync 2 output (PT-DZ21K/DS20K only)
13 LAN connector

Projection Distance

unit: meters (feet)

PT-DZ21K (16:10 aspect ratio)

Diagonal image size	Throw distance													
	ET-D75LE6 0.9–1.1:1		ET-D75LE10 1.3–1.7:1		ET-D75LE20 1.7–2.4:1		ET-D75LE30 2.4–4.7:1		ET-D75LE40 4.6–7.4:1		ET-D75LE8 7.3–13.8:1		ET-D75LE50 0.7:1
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.78 [70″]	1.35 (4.5)	1.62 (5.3)	1.90 (6.3)	2.46 (8.1)	2.46 (8.1)	3.58 (11.8)	3.56 (11.7)	6.94 (22.8)	6.87 (22.6)	11.05 (36.2)	10.78 (35.4)	20.56 (67.5)	1.01 (3.3)
2.54 [100″]	1.96 (6.5)	2.34 (7.7)	2.76 (9.1)	3.56 (11.7)	3.55 (11.7)	5.17 (17.0)	5.13 (16.9)	9.99 (32.8)	9.88 (32.4)	15.85 (52.0)	15.57 (51.1)	29.53 (96.9)	1.47 (4.8)
3.81 [150″]	2.96 (9.8)	3.55 (11.7)	4.18 (13.8)	5.40 (17.8)	5.37 (17.7)	7.81 (25.7)	7.75 (25.5)	15.08 (49.5)	14.90 (48.9)	23.85 (78.3)	23.54 (77.3)	44.47 (146.0)	2.24 (7.4)
5.08 [200″]	3.97 (13.1)	4.75 (15.6)	5.60 (18.4)	7.24 (23.8)	7.19 (23.6)	10.45 (34.3)	10.38 (34.1)	20.17 (66.2)	19.93 (65.4)	31.86 (104.5)	31.52 (103.5)	59.41 (195.0)	3.01 (9.9)
7.62 [300″]	5.99 (19.7)	7.17 (23.6)	8.44 (27.7)	10.91 (35.8)	10.82 (35.6)	15.73 (51.7)	15.62 (51.3)	30.34 (99.6)	29.97 (98.3)	47.87 (157.0)	47.47 (155.8)	89.30 (293.0)	4.56 (15.0)
10.16 [400″]	8.00 (26.3)	9.58 (31.5)	11.28 (37.1)	14.58 (47.9)	14.46 (47.5)	21.01 (69.0)	20.86 (68.5)	40.51 (132.9)	40.01 (131.3)	63.87 (209.6)	63.42 (208.1)	119.19 (391.1)	– (–)
12.70 [500″]	10.01 (32.9)	11.99 (39.4)	14.12 (46.4)	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)	79.37 (260.5)	149.08 (489.1)	– (–)
15.24 [600″]	12.03 (39.5)	14.40 (47.3)	16.96 (55.7)	21.93 (72.0)	21.73 (71.3)	31.58 (103.6)	31.35 (102.9)	60.85 (199.7)	60.09 (197.2)	95.89 (314.6)	95.32 (312.8)	178.96 (587.2)	– (–)

PT-DS20K (4:3 aspect ratio)

Diagonal image size	Throw distance													
	ET-D75LE6 1.0–1.2:1		ET-D75LE10 1.4–1.8:1		ET-D75LE20 1.8–2.6:1		ET-D75LE30 2.6–5.1:1		ET-D75LE40 5.0–8.0:1		ET-D75LE8 7.9–15.0:1		ET-D75LE50 0.8:1
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.78 [70″]	1.39 (4.6)	1.66 (5.5)	1.95 (6.4)	2.52 (8.3)	2.52 (8.3)	3.66 (12.1)	3.64 (12.0)	7.10 (23.3)	7.02 (23.0)	11.29 (37.0)	11.09 (36.4)	21.14 (69.4)	1.03 (3.4)
2.54 [100″]	2.01 (6.7)	2.41 (7.9)	2.82 (9.3)	3.64 (12.0)	3.63 (12.0)	5.28 (17.4)	5.24 (17.3)	10.21 (33.6)	10.10 (33.1)	16.19 (53.1)	16.01 (52.6)	30.36 (99.6)	1.50 (4.9)
3.81 [150″]	3.05 (10.0)	3.65 (12.0)	4.27 (14.0)	5.52 (18.2)	5.49 (18.0)	7.98 (26.2)	7.92 (26.0)	15.41 (50.6)	15.23 (50.0)	24.37 (80.0)	24.21 (79.5)	45.72 (150.0)	2.29 (7.5)
5.08 [200″]	4.08 (13.4)	4.89 (16.1)	5.72 (18.8)	7.39 (24.3)	7.34 (24.1)	10.67 (35.1)	10.60 (34.8)	20.60 (67.6)	20.36 (66.8)	32.54 (106.8)	32.40 (106.4)	61.08 (200.4)	3.08 (10.1)
7.62 [300″]	6.15 (20.2)	7.37 (24.2)	8.62 (28.3)	11.14 (36.6)	11.06 (36.3)	16.07 (52.8)	15.96 (52.4)	30.99 (101.7)	30.61 (100.4)	48.89 (160.4)	48.80 (160.2)	91.79 (301.2)	4.65 (15.3)
10.16 [400″]	8.22 (27.0)	9.85 (32.4)	11.52 (37.9)	14.90 (48.9)	14.77 (48.5)	21.46 (70.5)	21.31 (70.0)	41.38 (135.8)	40.87 (134.1)	65.25 (214.1)	65.19 (213.9)	122.51 (402.0)	– (–)
12.70 [500″]	10.29 (33.8)	12.33 (40.5)	14.42 (47.4)	18.65 (61.2)	18.48 (60.7)	26.86 (88.2)	26.67 (87.5)	51.77 (169.9)	51.12 (167.7)	81.60 (267.7)	81.59 (267.7)	153.23 (502.8)	– (–)
15.24 [600″]	12.36 (40.6)	14.81 (48.6)	17.33 (56.9)	22.40 (73.5)	22.20 (72.9)	32.25 (105.9)	32.03 (105.1)	62.15 (204.0)	61.38 (201.4)	97.95 (321.4)	97.98 (321.5)	183.95 (603.6)	– (–)

PT-DW17K (16:9 aspect ratio)

Diagonal image size	Throw distance													
	ET-D75LE6 1.0–1.2:1		ET-D75LE10 1.4–1.9:1		ET-D75LE20 1.8–2.7:1		ET-D75LE30 2.7–5.2:1		ET-D75LE40 5.1–8.2:1		ET-D75LE8 8.2–15.4:1		ET-D75LE50 0.8:1
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.78 [70″]	1.56 (5.2)	1.87 (6.2)	2.18 (7.2)	2.82 (9.3)	2.82 (9.3)	4.10 (13.5)	4.07 (13.4)	7.94 (26.1)	7.86 (25.8)	12.62 (41.4)	12.43 (40.8)	23.65 (77.6)	1.16 (3.8)
2.54 [100″]	2.25 (7.4)	2.70 (8.9)	3.16 (10.4)	4.08 (13.4)	4.06 (13.4)	5.91 (19.4)	5.87 (19.3)	11.42 (37.5)	11.30 (37.1)	18.10 (59.4)	17.92 (58.9)	33.94 (111.4)	1.69 (5.5)
3.81 [150″]	3.41 (11.2)	4.08 (13.4)	4.78 (15.7)	6.18 (20.3)	6.14 (20.2)	8.92 (29.3)	8.86 (29.1)	17.23 (56.6)	17.02 (55.9)	27.23 (89.3)	27.08 (88.9)	51.10 (167.7)	2.57 (8.4)
5.08 [200″]	4.56 (15.0)	5.47 (18.0)	6.40 (21.0)	8.27 (27.2)	8.21 (27.0)	11.93 (39.2)	11.85 (38.9)	23.03 (75.6)	22.75 (74.6)	36.36 (119.3)	36.23 (118.9)	68.25 (224.0)	3.45 (11.3)
7.62 [300″]	6.87 (22.6)	8.24 (27.1)	9.64 (31.7)	12.46 (40.9)	12.36 (40.6)	17.96 (59.0)	17.83 (58.6)	34.63 (113.7)	34.20 (112.2)	54.62 (179.2)	54.54 (179.0)	102.55 (336.5)	5.21 (17.1)
10.16 [400″]	9.18 (30.2)	11.01 (36.2)	12.88 (42.3)	16.65 (54.7)	16.50 (54.2)	23.98 (78.7)	23.81 (78.2)	46.23 (151.7)	45.66 (149.8)	72.88 (239.1)	72.85 (239.1)	136.85 (449.0)	– (–)
12.70 [500″]	11.49 (37.8)	13.78 (45.2)	16.12 (52.9)	20.84 (68.4)	20.65 (67.8)	30.01 (98.5)	29.80 (97.8)	57.83 (189.8)	57.11 (187.4)	91.14 (299.0)	91.16 (299.1)	171.16 (561.6)	– (–)
15.24 [600″]	13.80 (45.3)	16.55 (54.3)	19.36 (63.6)	25.02 (82.1)	24.80 (81.4)	36.03 (118.3)	35.78 (117.4)	69.43 (227.8)	68.56 (225.0)	109.40 (358.9)	109.47 (359.2)	205.46 (674.1)	– (–)

Optional Accessories

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-D75LE50
Fixed-focus lens

ET-UK20
Upgrade Kit
(Geometry Manager Pro included)

ET-PKD510H
High-ceiling mount bracket

ET-PKD510S
Low-ceiling mount bracket

ET-PFD510
Frame

ET-LAD510
Replacement lamp unit (one bulb)

ET-LAD510F
Replacement lamp unit (a set of four bulbs)

ET-LAD510P
Replacement lamp unit for portrait mode (one bulb)

ET-LAD510PF
Replacement lamp unit for portrait mode (a set of four bulbs)

ET-EMF510
Replacement filter

ET-SFR510
Smoke cut filter

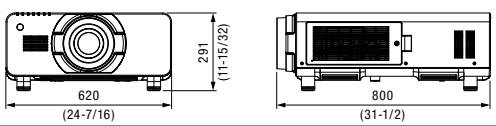
Specifications

Model		PT-**DZ21K**	PT-**DS20K**	PT-**DW17K**
Power supply		200–240 V AC, 50/60 Hz (Max current requirements: 12 A @200 V)		
Power consumption		2,300 W (0.3 W with STANDBY MODE set to ECO,*1 9 W with STANDBY MODE set to NORMAL.)		
Dissipation BTU		Max. 7,848 BTU/hour (without light output: 7,585 BTU/hour)		
DLP™ chip	Panel size Display method Pixels	24.4 mm (0.96 in) diagonal (16:10 aspect ratio) DLP™ chip × 3, DLP™ projection system 2,304,000 (1,920 × 1,200) × 3, total of 6,912,000 pixels	24.1 mm (0.95 in) diagonal (4:3 aspect ratio) DLP™ chip × 3, DLP™ projection system 1,470,000 (1,400 × 1,050) × 3, total of 4,410,000 pixels	21.6 mm (0.85 in) diagonal (16:9 aspect ratio) DLP™ chip × 3, DLP™ projection system 1,049,088 (1,366 × 768) × 3, total of 3,147,264 pixels
Lens		Optional powered zoom and fixed-focus lenses		
Lamp		465 W UHM lamp × 4, replacement cycle of up to 2,000 hours*2		
Screen size (diagonal)		1.78–15.24 m (70–600 in), 1.78–7.62 m (70–300 in) with the ET-D75LE50, 16:10 aspect ratio	1.78–15.24 m (70–600 in), 1.78–7.62 m (70–300 in) with the ET-D75LE50, 4:3 aspect ratio	1.78–15.24 m (70–600 in), 1.78–7.62 m (70–300 in) with the ET-D75LE50, 16:9 aspect ratio
Brightness*3		20,000 lm (four-lamp)		17,000 lm (four-lamp)
Center-to-corner uniformity*3		90 %		
Contrast*3		10,000:1 (full on/off, with dynamic iris set to "3")		
Resolution		1,920 × 1,200 pixels	1,400 × 1,050 pixels (Input signals that exceed this resolution will be converted to 1,400 × 1,050 pixels.)	1,366 × 768 pixels (Input signals that exceed this resolution will be converted to 1,366 × 768 pixels.)
Scanning frequency	SDI SD-SDI HD-SDI Dual-link HD-SDI 3G-SDI	SMPTE ST 259 compliant, [YCBCR 4:2:2 10-bit] 480i, 576i SMPTE ST 292 compliant, [YCBCR 4:2:2 10-bit] 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p SMPTE ST 372 compliant, [RGB 4:4:4 12-bit/10-bit] 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p, [X'Y'Z' 4:4:4 12-bit] 2,048 × 1,080/24p, 2,048 × 1,080/24sF SMPTE ST 424 compliant, [YPBPR 4:2:2 10-bit] 1080/50p, 1080/60p, [RGB 4:4:4 12-bit/10-bit] 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p		–
	HDMI/DVI-D	480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p VGA (640 × 480)–WUXGA*4 (1,920 × 1,200), compatible with non-interlaced signals only, dot clock: 25–162 MHz		
	RGB YPBPR (YCBCR)	fH: 15–100 kHz, fV: 24–120 Hz, dot clock: 20–162 MHz fH: 15.75 kHz, fv: 60 Hz [480i (525i)] fH: 31.50 kHz, fv: 60 Hz [480p (525p)] fH: 15.63 kHz, fv: 50 Hz [576i (625i)] fH: 31.25 kHz, fv: 50 Hz [576p (625p)] fH: 45.00 kHz, fv: 60 Hz [720 (750)/60p]	fH: 37.50 kHz, fv: 50 Hz [720 (750)/50p] fH: 33.75 kHz, fv: 60 Hz [1035/60i] fH: 33.75 kHz, fv: 60 Hz [1080 (1125)/60i] fH: 28.13 kHz, fv: 50 Hz [1080 (1125)/50i] fH: 28.13 kHz, fv: 25 Hz [1080/25p]	fH: 27.00 kHz, fv: 24 Hz [1080/24p] fH: 27.00 kHz, fv: 48 Hz [1080/24sF] fH: 33.75 kHz, fv: 30 Hz [1080/30p] fH: 67.50 kHz, fv: 60 Hz [1080/60p] fH: 56.25 kHz, fv: 50 Hz [1080/50p]
	Video / Y/C	fH: 15.75 kHz, fv: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60], fH: 15.63 kHz, fv: 50 Hz [PAL/PAL-N/SECAM]		
Optical axis shift*5	Vertical	±55 % (±44 % with the ET-D75LE6) from center of screen (powered)	±50 % (±40 % with the ET-D75LE6) from center of screen (powered)	±70 % (±60 % with the ET-D75LE6) from center of screen (powered)
	Horizontal	±20 % (±15 % with the ET-D75LE6) from center of screen (powered)	±30 % (±20 % with the ET-D75LE6) from center of screen (powered)	±30 % (±20 % with the ET-D75LE6) from center of screen (powered)
Keystone correction range		Vertical: ±40°*6, horizontal: ±15°		Vertical: ±40°*6
Keystone correction range with optional Upgrade Kit		Vertical: ±45°*6*8 , horizontal: ±40°*7*8		–
Installation		Ceiling/floor, front/rear		
Terminals	SDI 1 IN SDI 2 IN 3D SYNC IN/OUT 3D SYNC OUT	BNC × 1 (3G/HD/SD-SDI) BNC × 1 (HD/SD-SDI) BNC × 1 (3D timing signal) BNC × 1 (3D timing signal)		–
	DVI-D IN	DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)		
	HDMI IN	HDMI 19-pin × 1 (Deep Color, compatible with HDCP)		
	RGB 1 IN	BNC × 5 (RGB/YPBPR/YCBCR/YC × 1)		
	RGB 2 IN	D-Sub HD 15-pin (female) × 1 (RGB/YPBPR/YCBCR × 1)		
	VIDEO IN	BNC × 1 (composite video)		
	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	M3 × 1 for wired remote control		
	REMOTE 1 OUT	M3 × 1 for link control (for wired remote control)		
	REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)		
	LAN	RJ-45 × 1 (for network connection, 10Base-T/100Base-TX, compliant with PJLink™)		
Cabinet materials		Molded plastic		
Dimensions (W × H × D)		620 × 291*9 × 800 mm (24-7/16 × 11-15/32*9 × 31-1/2 in) (optional lens not included)		
Weight*10		Approximately 43 kg (94.8 lbs) (optional lens not included)		
Shipping dimensions (W × H × D)		U/EJ models: 965 × 418 × 865 mm (38 × 16-15/32 × 34-1/16 in), E models: 946 × 402 × 846 mm (38 × 15-13/16 × 33-5/16 in).		
Shipping weight		U models: 53 kg (116.8 lbs), EJ models: 54 kg (119.0 lbs), E models: 51 kg (112.4 lbs)		
Operation noise*3		49 dB (quad lamp operation)		
Operating environment		Operating temperature: 0–45 °C (32–113 °F)*11, operating humidity: 10–80 % (no condensation)		
Applicable software		Logo Transfer Software, Multi Projector Monitoring & Control Software, Geometry Manager Pro (included in the ET-UK20)		Logo Transfer Software, Multi Projector Monitoring & Control Software
Supplied accessories		Power cord with secure lock, wireless/wired remote control unit, batteries (R6/AA type × 2)		

***1** When the STANDBY MODE is set to ECO, network functions such as power on over the LAN will not operate. Also, only certain commands can be received for external control using the serial terminal. ***2** The usage environment affects the lamp replacement cycle. ***3** Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. ***4** WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). ***5** Optical axis shift cannot be operated with the ET-D75LE50. ***6** ±22° with the ET-D75LE50, ±28° with the ET-D75LE6, and ±40° with the ET-D75LE10 and ET-D75LE20. ***7** Up to ±15° with the ET-D75LE50 and ET-D75LE6. ***8** Up to a total of ±55° during simultaneous horizontal and vertical correction. ***9** With legs at shortest position. ***10** Average value. May differ depending on the actual unit. ***11** The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the FAN CONTROL is set to HIGH ALTITUDE MODE (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). When the projector is used with the ET-SFR510 Smoke Cut Filter, the operating temperature range is 0 °C to 35 °C (32 °F to 95 °F), and the projector cannot be used in places at high altitude. **WITH THE ET-LAD510P/LAD510PF MOUNTED FOR THE PORTRAIT MODE:** The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F). The operating temperature range is 0 °C to 35 °C (32 °F to 95 °F) when the FAN CONTROL is set to HIGH ALTITUDE MODE (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). When the projector is used with the ET-SFR510 Smoke Cut Filter, the operating temperature range is 0 °C to 30 °C (32 °F to 86 °F), and the projector cannot be used in places at high altitude.

Dimensions

unit: mm (inches)



NOTES ON USE

1. Do not install the projector in locations that are subject to excessive water, humidity, steam, or oily smoke. Doing so may result in fire, malfunction, or electric shock.
2. The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use.
3. The projector uses of high-wattage lamp that becomes very hot during operation. Please observe the following precautions:
   - Never place objects on top of the projector while it is operation.
   - Make sure there is an unobstructed space of 500 mm (19-11/16 inches) or more around the projector's exhaust openings.
   - Do not stack projector units directly on top of one another for the purpose of multiple (stacked) projection. When stacking projector units, be sure to provide the amount of space indicated between them. These space requirements also apply to installation where only one projector unit is operating at one time and the other unit is used as a backup.
   - If the projector is placed in a box or enclosure, temperature of the air surrounding the projector must be between 0 °C (32 °F) and 35 °C (95 °F). Also make sure the projector's intake and exhaust openings are not blocked. Take particular care to ensure that hot air from the exhaust openings is not sucked into the intake.
4. If the projector is to be operated continuously 24 hours a day / 7 days a week, use the multi-lamp optical system's alternating lamp operation (lamp changer) function. The projector can be operated continuously 24 hours a day / 7 days a week in four-lamp operation mode, but it will automatically operate with three lamps for 8 hours of the 24 hours / 7 days.
5. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.
   - The length of time that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.
   - The brightness of the lamp will gradually decrease with use.
6. Because the ET-D75LE50 is a fixed short-throw lens, the lens shift function cannot be used with it.
7. Due to natural characteristics of lamps, screen brightness may vary (flicker). This is not an indication of faulty lamp performance.

The compact size, light weight, and low operating noise of the PT-DZ21K Series realize brighter images more applications.

Panasonic®

For more information about Panasonic projectors, please visit:
Projector Global Web Site – **panasonic.net/avc/projector**
Facebook – **www.facebook.com/panasonicprojector**
YouTube – **www.youtube.com/user/PanasonicProjector**

JQA-QMA14392

EC98J2010 051

Factories of Business Solutions Business Group have received ISO 14001:2004—the Environmental Management System certification (except for third parties' peripherals).

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. DLP, DLP logo and DLP Medallion logo are trademarks or registered trademarks of Texas Instruments. The projection distances and throw ratios given in this leaflet are for use only as guidelines. For more detailed information, please consult the dealer from whom you are purchasing the product. The PJLink trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. All other trademarks are the property of their respective trademark owners. Projection images simulated.
TM USOC 36USC220506 © 2012 Panasonic Corporation. All rights reserved.

All information included here is valid as of September 2012.

PT-DZ21KG2 Printed in Japan.