

Panasonic

PT-DZ21K2 Series

3-Chip DLP™ Projectors

PT-DZ21K2
PT-DS20K2
PT-DW17K2
PT-DZ16K2



POWER TO TRANSCEND



Worldwide
Olympic Partner





The range-topping Panasonic PT-DZ21K2 Series guarantees breathtaking images and extremely reliable operation. Each feature-laden model has creative capabilities to satisfy the demands of professional users.



Outstanding Brightness in a Lightweight Package

Quad-Lamp System for 20,000 lm*1 Images

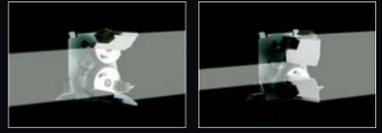
A unique high-power UHM quad-lamp system has allowed Panasonic to dramatically reduce cabinet volume and weight while projecting images with up to an astounding 20,000 lm*1 of brightness.



Lamp mode	Brightness (lumens)			Lamp Replacement Cycle (hours)*2	
	DZ21K2 DS20K2	DW17K2	DZ16K2	DZ21K2 DS20K2	DW17K2 DZ16K2
Quad	20,000	17,000	16,000	3,000	
Triple	15,000	12,750	12,000	3,900	
Dual	10,000	8,500	8,000	6,000	
Single	5,000	4,250	4,000	12,000	

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 sacrificing brightness. This helps to reproduce deeper, richer blacks, and provides images with more textured and realistic details.



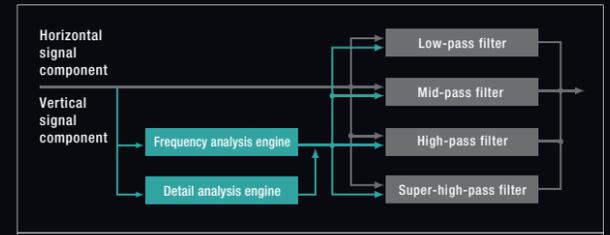
Active 3D Projection Capability (PT-DZ21K2/DS20K2)

Selected models in the PT-DZ21K2 Series are compatible with both passive and active 3D projection systems. It supports a separate, external 100/120/144 Hz drive, IR emitter, and active shutter glasses, or an active filter and passive glasses for viewing 3D images.

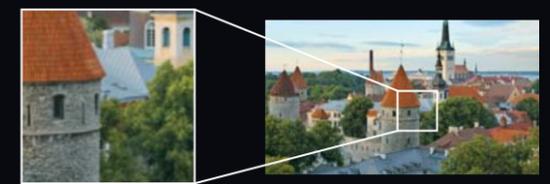


Detail Clarity Processor 5 Clarifies and Enhances Fine Details

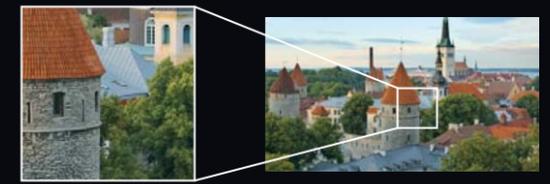
This proprietary circuit analyzes each individual image frame by frame to clarify areas containing fine details and textures. A new processing algorithm pulls hidden information from the super high, high, medium, and low frequency bands, sharpening outlines, correcting contours, and reducing ringing noise to improve the sense of resolution and clarity of fine details.



Conventional projector



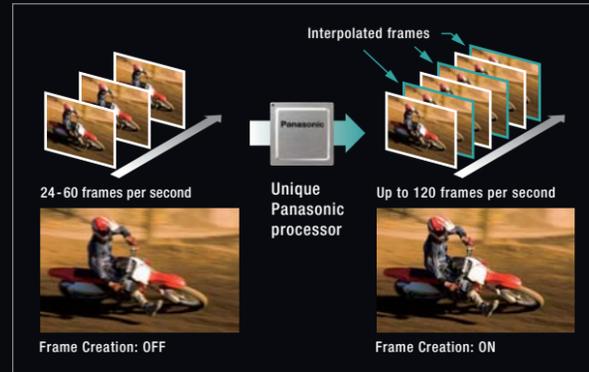
Detail Clarity Processor 5



*1 PT-DW17K2 has 17,000 lm and PT-DZ16K2 has 16,000 lm of brightness. *2 The values given for lamp replacement cycles are for landscape orientation. Usage environment affects lamp replacement cycle. *3 Full On/Off, with Dynamic Iris set to "3".

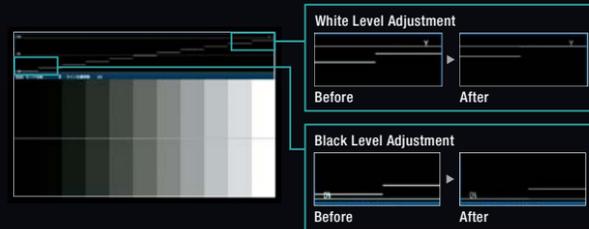
Original Panasonic Technology Reduces Motion Blur (PT-DZ21K2/DS20K2/DZ16K2)

Together with a unique high-speed Real Motion Processor chip, Panasonic has refined the PT-DZ21K2 Series' optical engine to enhance focus performance for a better sense of resolution, contrast, and fluidity. Real Motion Processor creates supplemental frames and interpolates for a fast 120 Hz⁴ frame-rate, resulting in incredibly smooth and realistic reproduction of motion. Further, 120 Hz⁴ images can be displayed with Dual-link 3G-SDI, DVI-D, and HDMI simultaneous inputs.



Waveform Monitor Function

When source device output level fluctuates due to the performance of the device or its cable connections, the original black and white levels of the image cannot be reproduced correctly. The PT-DZ21K2 Series displays the waveforms on screen where they can be adjusted either automatically or manually as preferred.



High Reliability and Low TCO with Easy Maintenance

Low TCO in an Eco-Friendly Design

PT-DZ21K2 Series projectors lower total cost of ownership (TCO) with an extended a lamp replacement cycle of up to 3,000 hours⁷. Environmentally friendly design reduces power consumption to just 2,060 W.

Quad-Lamp System Enables Stable, Extended Operation

The quad-lamp system allows the projector to keep working even if a lamp should fail. Lamp Relay Mode alternates lamp operation to enable efficient and reliable 24/7 projection. Quad, Triple, Dual, and Single Lamp modes can also be used.

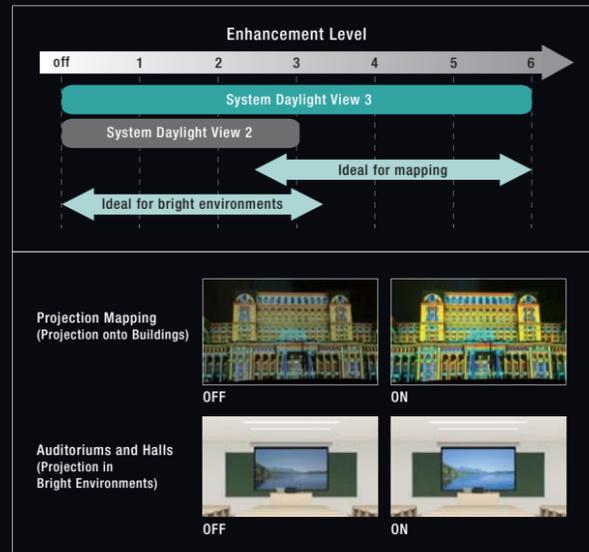
Easy Lamp Replacement

To simplify and expedite maintenance, lamps can be replaced from the rear. This makes it easy to replace a lamp while the projector is still in the mounting bracket or dual-stacked.



System Daylight View 3 Improves Color Perception

This proprietary technology optimizes image quality to improve color perception of images projected onto external or internal walls and other surfaces or in environments with bright ambient light. With high brightness of up to 20,000 lm⁵, the PT-DZ21K2 Series delivers clear and comfortable viewing even with the lights on.



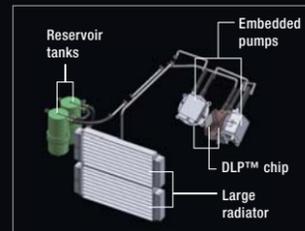
DICOM Simulation Mode**

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 PT-DZ21K2 Series ideal for medical presentations and training.



Liquid Cooling System Assures Reliable Operation

A newly designed liquid cooling system directly cools the DLPTM chips to stabilize performance in temperatures of up to 45 °C (113 °F)⁸ while producing just 46 dB of noise. It also reduces body bulk and weight, and as the system is hermetically sealed, the cooling liquid does not require replenishment.



Eco Filter Extends Replacement to 12,000 Hours**

The Eco Filter has an electrostatic Micro Cut Filter that collects minute dust particles with an ion effect. It combines with a dust-resistant cabinet to enable long-term use even in punishing conditions. A long maintenance cycle of up to 12,000 hours¹⁰ reduces hassle, and the eco-friendly washable filter can be reused, reducing cost and waste¹⁰.



System and Installation Flexibility with Diverse Functionality

Single-Cable DIGITAL LINK Connection

Transmit Video, Audio, and Control Signals Up to 150 m (492 ft)^{*11}



DIGITAL LINK supports transmission of uncompressed HD digital video, audio, and control commands through a single cable (CAT 5e or higher STP cable) for distances of up to 150 m (492 ft)^{*11}. Add an optional ET-YFB200G DIGITAL LINK Switcher or ET-YFB100G Digital Interface Box to further simplify installation complexity in large venues while reducing cost and improving reliability at the same time.

Dual-output Capability with Optional ET-YFB200G Switcher

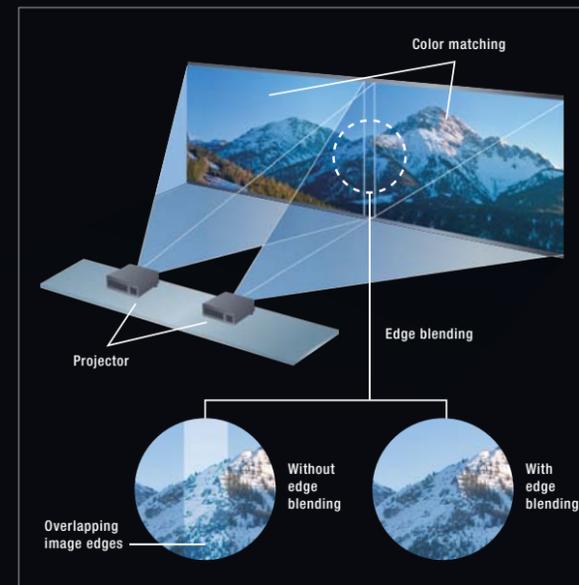
The ET-YFB200G DIGITAL LINK Switcher unit incorporates two DIGITAL LINK terminals. Video, audio, and control signals can be output to two display devices individually or simultaneously. Sources can be easily switched using the projector remote controller or via PC and tablet, and multiple Switchers can be daisy-chained to integrate additional display devices.

Compatible with Other Device Brands

Panasonic developed DIGITAL LINK by adding original features to the HDBaseTTM communication standard formulated by HDBaseT Alliance. DIGITAL LINK works seamlessly with other brands' peripheral devices supporting HDBaseTTM protocol, allowing you to easily add Panasonic projectors to existing AV infrastructure.

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. PC software assures easy, accurate control.
- Digital Image Enlarging: PT-DZ21K2 Series features a digital zoom function that allows images to be enlarged up to 10 times (horizontally and vertically)^{*12}. Up to 100 units (10 x 10) can be edge-blended at a time to create large, multi-screen images.



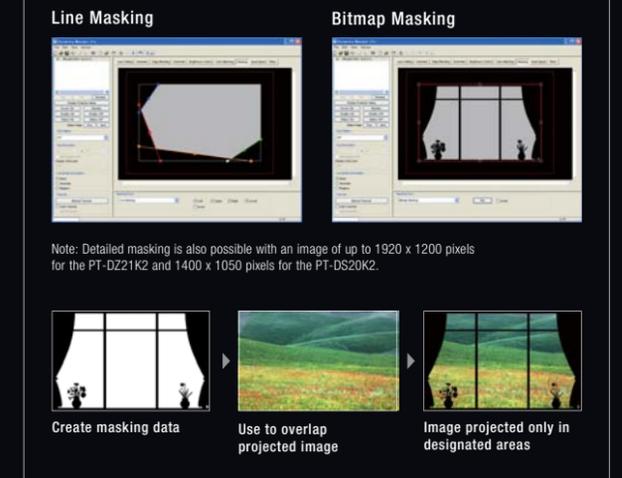
Geometric Adjustment for Specially Shaped Screens

This function adjusts the image for projection onto spherical, cylindrical, and other specially shaped screens. Adjustments can be easily made using only the remote control, with no external equipment needed. New 4-Corner Adjustment and Keep Aspect Off functions also simplify fine adjustment.



Optional Upgrade Kit (ET-UK20) Featuring Geometry Manager Pro (PT-DZ21K2/DS20K2)

New Geometry Manager Pro software included in Panasonic's optional upgrade kit (ET-UK20) supports color matching, edge blending, uniformity correction, and other useful functions for multi-projector setups up to a maximum of 64 units. It also enables creative masking using four lines or bitmap data. Its flexible yet sophisticated geometric adjustment capability suits a wide variety of screen shapes. Further, PT-DZ21K2/DS20K2 Series projectors support the optional ET-CUK10 Auto Screen Adjustment Upgrade Kit^{*13}.



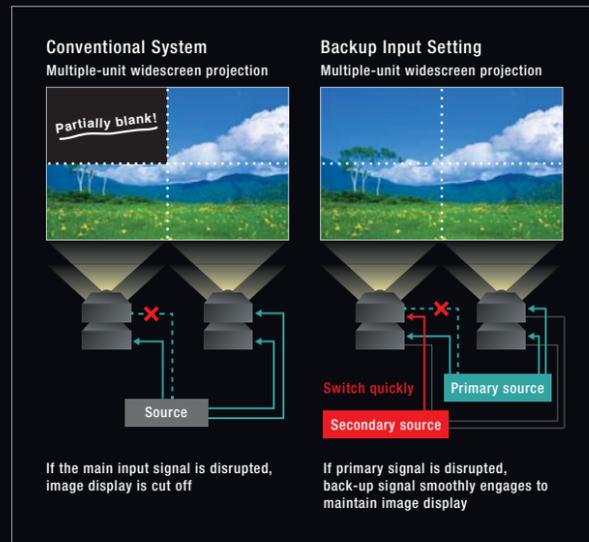
Multi Monitoring & Control Software

This software lets you control and monitor multiple projectors at the same time over wired LAN. If a problem occurs, an alert is sent to the monitoring/controlling PC. Terminal panel is LED illuminated and control panel buttons backlit for easy operation in the dark.

^{*4} Frame rate varies depending on input signal frequency. PT-DW17K2 has a maximum 60 Hz playback capability. ^{*5} PT-DW17K2 has 17,000 lm and PT-DZ16K2 has 16,000 lm of brightness. ^{*6} This product is not a medical instrument. Do not use for actual medical diagnosis. ^{*7} The values given for lamp replacement cycles are for landscape orientation. Usage environment affects lamp replacement cycle. ^{*8} When the projector is used in Portrait Mode with ET-LAD520P/LAD520PF or used in locations from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level, operating temperature range is 0 °C to 40 °C (32 °F to 104 °F). When used with Smoke Cut Filter, operating temperature range is 0 °C to 35 °C (32 °F to 95 °F), and the projector cannot be used in locations over 1,400 m (4,593 ft) above sea level. ^{*9} Usage environment affects filter maintenance cycle. ^{*10} Please follow the procedures listed in the operating instructions when washing the filter with water. Replacement is recommended after filter has been washed and reused twice, or if filter is not sufficiently clean after washing. ^{*11} 150 m (492 ft) transmission available only with ET-YFB200G switcher for signals up to 1080p. ^{*12} While the input resolution will not change, maintaining image quality is not possible for images enlarged horizontally and vertically via the digital zoom function. ^{*13} Available worldwide except in the United States.

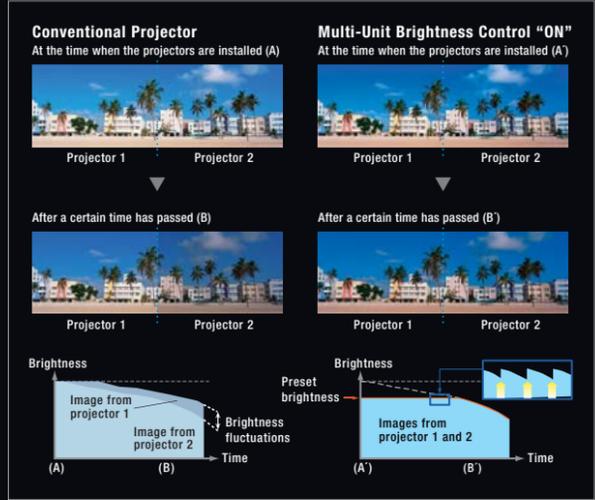
Backup Input Setting Assures Reliability and Optimizes Performance

The Backup Input Setting allows the signal to be switched to the backup input signal as smoothly as possible should the primary input signal be disrupted**14. This function ensures high reliability and is ideal for mission-critical control rooms, projection mapping, staging, and other applications where image display should not be interrupted.



Multi-Unit Brightness Control

This function automatically corrects brightness fluctuations that occur over time in individual projectors in a multi-screen system. Up to eight projectors connected by a hub can be controlled increasing to a maximum of 2,048 projectors with Multi Monitoring & Control Software.



Art-Net DMX Compatible

PT-DZ21K2 Series is compatible with Art-Net DMX protocol for lighting management. Art-Net compatibility lets you connect the projector to a lighting console and operate functions such as shutter on/off, input change, power on/off, etc., together with the light control.



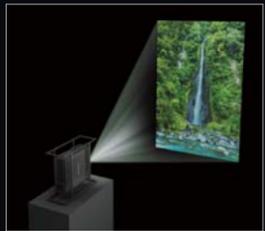
Flexible Installation

The supplied remote controller can be used to fine-tune image positioning on the projection surface via the wide-range powered vertical/horizontal lens shift function. The projector unit can also be rotated 360° vertically to accommodate specific installation requirements. The lens-centered design contributes to easy installation.



Optional Portrait Mode Capability*15 (PT-DZ21K2/DS20K2/DW17K2)

The PT-DZ21K2 Series features Portrait Mode capability when mounting the optional ET-LAD520P or ET-LAD520PF*16 lamp unit. The PT-DZ21K2 Series can be installed in portrait orientation with its terminal side surface facing downward. Portrait Mode offers additional solutions for projection mapping, staging, and more.



Generous Connectivity

The PT-DZ21K2 Series has a wide array of terminals including DVI-D, HDMI, and two RGB inputs. The PT-DZ21K2, DS20K2 and DZ16K2 also feature a 3G-ready HD/SD-SDI input and 3D sync terminals (DZ21K2 and DS20K2) to connect an emitter for 3D projection.

Early Warning Software ET-SWA100 (Optional)

Early Warning Software monitors the status of projectors and displays connected to an intranet and informs you when an abnormality is detected or predicted, and when there are symptoms of trouble. This minimizes downtime to provide more stable operation.

Projection Distance

PT-DZ21K2 (16:10 aspect ratio)

unit: meters (feet)

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.	min.	max.
1.78 [70"]	1.35 (4.4)	1.82 (5.9)	1.90 (6.2)	2.46 (8.1)	2.46 (8.1)	3.58 (11.7)	3.56 (11.7)	6.94 (22.8)	6.97 (22.8)	11.04 (36.2)	11.04 (36.2)	20.58 (67.4)	20.58 (67.4)	1.01 (3.3)
2.54 [100"]	1.96 (6.4)	2.34 (7.7)	2.76 (9.0)	3.56 (11.6)	3.56 (11.6)	5.17 (16.9)	5.13 (16.8)	9.99 (32.8)	9.88 (32.4)	15.95 (52.1)	15.57 (51.1)	29.53 (96.8)	29.53 (96.8)	1.47 (4.8)
3.05 [120"]	2.36 (7.7)	2.82 (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)	18.76 (61.5)	35.50 (116.5)	35.50 (116.5)	1.78 (5.8)
3.81 [150"]	2.96 (9.7)	3.55 (11.6)	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 (49.2)	23.85 (78.2)	23.54 (77.2)	44.47 (145.9)	44.47 (145.9)	2.24 (7.4)
5.08 [200"]	3.97 (13.0)	4.75 (15.6)	5.60 (18.4)	7.24 (23.7)	7.19 (23.6)	10.45 (34.3)	10.38 (34.0)	20.16 (66.1)	19.92 (65.4)	31.86 (104.5)	31.52 (103.4)	59.41 (194.9)	59.41 (194.9)	3.01 (9.9)
7.62 [300"]	5.99 (19.6)	7.17 (23.5)	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)	47.07 (155.7)	47.47 (155.7)	89.30 (292.9)	89.30 (292.9)	4.56 (14.9)
15.24 [600"]	12.03 (39.4)	14.40 (47.2)	16.96 (55.6)	21.92 (71.9)	21.73 (71.3)	31.58 (103.6)	31.35 (102.8)	60.85 (199.6)	60.09 (197.1)	95.89 (314.5)	95.32 (312.7)	178.96 (587.0)	178.96 (587.0)	9.18 (30.1)
25.40 [1000"]	20.08 (65.9)	24.06 (78.9)	28.33 (92.9)	36.61 (120.1)	36.27 (119.0)	52.70 (172.9)	52.33 (171.6)	101.53 (333.0)	100.25 (328.8)	159.93 (524.6)	159.13 (521.9)	-	-	15.35 (50.3)

PT-DS20K2 (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 8.2-15.4:1		ET-D75LE50 0.8:1	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
1.78 [70"]	1.39 (4.6)	1.66 (5.4)	1.95 (6.4)	2.52 (8.3)	2.52 (8.3)	3.66 (12.0)	3.64 (11.9)	7.10 (23.3)	7.02 (23.0)	11.28 (37.0)	11.09 (36.4)	21.14 (69.3)	21.14 (69.3)	1.03 (3.4)
2.54 [100"]	2.01 (6.6)	2.41 (7.9)	2.82 (9.2)	3.64 (11.9)	3.63 (11.9)	5.28 (17.3)	5.24 (17.2)	10.21 (33.5)	10.10 (33.1)	16.19 (53.1)	16.01 (52.5)	30.36 (99.6)	30.36 (99.6)	1.50 (4.9)
3.05 [120"]	2.43 (8.0)	2.90 (9.5)	3.40 (11.1)	4.39 (14.4)	4.37 (14.3)	6.36 (20.9)	6.31 (20.7)	12.29 (40.3)	12.15 (39.9)	19.46 (63.8)	19.29 (63.3)	36.50 (119.7)	36.50 (119.7)	1.82 (6.0)
3.81 [150"]	3.05 (10.0)	3.65 (12.0)	4.27 (14.0)	5.52 (18.1)	5.49 (18.0)	7.98 (26.2)	7.92 (26.0)	15.41 (50.5)	15.23 (49.9)	24.37 (79.4)	24.21 (79.4)	45.72 (150.0)	45.72 (150.0)	2.29 (7.5)
5.08 [200"]	4.08 (13.4)	4.89 (16.0)	5.72 (18.7)	7.39 (24.2)	7.34 (24.1)	10.67 (35.0)	10.60 (34.8)	20.60 (67.6)	20.35 (66.8)	32.54 (106.7)	32.40 (106.3)	61.08 (200.3)	61.08 (200.3)	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 (52.7)	15.96 (52.3)	30.99 (101.6)	30.61 (100.4)	48.89 (160.4)	48.80 (160.1)	91.79 (301.1)	91.79 (301.1)	4.65 (15.3)
15.24 [600"]	12.36 (40.6)	14.81 (48.6)	17.33 (56.8)	22.40 (73.5)	22.19 (72.8)	32.25 (105.8)	32.03 (105.0)	62.15 (203.9)	61.38 (201.3)	97.95 (321.3)	97.98 (321.4)	183.95 (603.3)	183.95 (603.3)	9.38 (30.9)
25.40 [1000"]	20.64 (67.7)	24.73 (81.1)	28.93 (94.9)	37.40 (122.7)	37.05 (121.5)	53.93 (176.6)	53.45 (175.3)	103.71 (340.2)	102.41 (335.9)	163.33 (535.9)	163.56 (536.5)	-	-	16.68 (54.4)

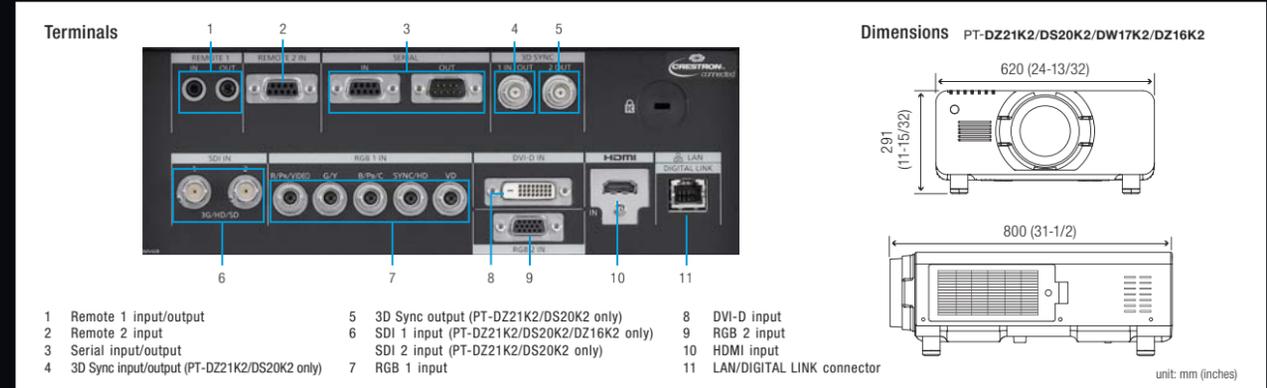
PT-DW17K2 (16:9 aspect ratio)

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.	min.	max.
1.78 [70"]	1.56 (5.1)	1.87 (6.1)	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)	23.65 (77.6)	1.16 (3.8)
2.54 [100"]	2.25 (7.4)	2.70 (8.8)	3.16 (10.3)	4.08 (13.4)	4.06 (13.3)	5.91 (19.4)	5.87 (19.3)	11.42 (37.5)	11.30 (37.1)	18.10 (59.4)	17.92 (58.8)	33.94 (111.3)	33.94 (111.3)	1.69 (5.5)
3.05 [120"]	2.72 (8.9)	3.25 (10.7)	3.80 (12.5)	4.92 (16.1)	4.89 (16.0)	7.11 (23.3)	7.07 (23.2)	13.74 (45.1)	13.59 (44.6)	21.75 (71.3)	21.58 (70.9)	40.80 (133.8)	40.80 (133.8)	2.04 (6.7)
3.81 [150"]	3.41 (11.2)	4.08 (13.4)	4.79 (15.7)	6.17 (20.3)	6.14 (20.1)	8.92 (29.3)	8.86 (29.1)	17.22 (56.5)	17.02 (55.8)	27.23 (89.3)	27.08 (88.8)	51.09 (167.6)	51.09 (167.6)	2.57 (8.4)
5.08 [200"]	4.56 (15.0)	5.47 (17.9)	6.40 (21.0)	8.27 (27.1)	8.21 (26.9)	11.93 (39.1)	11.85 (38.9)	23.03 (75.5)	22.75 (74.6)	36.36 (119.3)	36.23 (118.8)	68.25 (223.8)	68.25 (223.8)	3.45 (11.3)
7.62 [300"]	6.87 (22.5)	8.24 (27.0)	9.64 (31.6)	12.46 (40.9)	12.36 (40.5)	17.96 (58.9)	17.83 (58.5)	34.63 (113.6)	34.20 (112.2)	54.62 (179.2)	54.54 (178.9)	102.55 (336.4)	102.55 (336.4)	5.21 (17.1)
15.24 [600"]	13.80 (45.3)	16.55 (54.3)	19.36 (63.5)	25.02 (82.1)	24.80 (81.3)	36.03 (118.2)	35.78 (117.4)	69.43 (227.7)	68.56 (224.9)	109.40 (358.8)	109.47 (359.1)	205.46 (673.9)	205.46 (673.9)	10.48 (34.4)
25.40 [1000"]	23.04 (75.6)	27.63 (90.6)	32.32 (106.0)	41.78 (137.0)	41.38 (135.7)	60.13 (197.2)	59.71 (195.8)	115.83 (379.9)	114.38 (375.2)	182.44 (598.4)	182.70 (599.3)	-	-	17.52 (57.5)

PT-DZ16K2 (16:9 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.	min.	max.
1.78 [70"]	1.40 (4.6)	1.67 (5.5)	1.96 (6.4)	2.53 (8.3)	2.53 (8.3)	3.68 (12.1)	3.66 (12.0)	7.14 (23.4)	7.07 (23.2)	11.36 (37.2)	11.16 (36.6)	21.28 (69.8)	21.28 (69.8)	1.04 (3.4)
2.54 [100"]	2.03 (6.6)	2.42 (7.9)	2.83 (9.3)	3.67 (12.0)	3.65 (12.0)	5.31 (17.4)	5.28 (17.3)	10.28 (33.7)	10.16 (33.3)	16.29 (53.4)	16.11 (52.8)	30.55 (100.2)	30.55 (100.2)	1.51 (5.0)
3.05 [120"]	2.44 (8.0)	2.92 (9.6)	3.42 (11.2)	4.42 (14.5)	4.40 (14.4)	6.40 (21.0)	6.35 (20.8)	12.37 (40.6)	12.23 (40.1)	19.58 (64.2)	19.41 (63.7)	36.73 (120.5)	36.73 (120.5)	1.83 (6.0)
3.81 [150"]	3.07 (10.1)	3.67 (12.0)	4.29 (14.1)	5.55 (18.2)	5.52 (18.1)	8.03 (26.3)	7.97 (26.1)	15.50 (50.8)	15.32 (50.3)	24.52 (80.4)	24.36 (79.9)	46.00 (150.9)	46.00 (150.9)	2.31 (7.6)
5.08 [200"]	4.11 (13.5)	4.92 (16.1)	5.75 (18.9)	7.44 (24.4)	7.39 (24.2)	10.74 (35.2)	10.67 (35.0)	20.73 (68.0)	20.48 (67.2)	32.75 (107.4)	32.61 (107.0)	61.46 (201.6)	61.46 (201.6)	3.10 (10.2)
7.62 [300"]	6.19 (20.3)	7.41 (24.3)	8.67 (28.5)	11.21 (36.8)	11.13 (36.5)	16.17 (53.0)	16.06 (52.7)	31.18 (102.3)	30.80 (101.0)	49.20 (161.4)	49.11 (161.1)	92.37 (303.0)	92.37 (303.0)	4.68 (15.4)
15.24 [600"]	12.44 (40.8)	14.90 (48.9)	17.44 (57.2)	22.54 (73.9)	22.33 (73.3)	32.46 (106.5)	32.23 (105.7)	62.54 (205.1)	61.76 (202.6)	98.56 (323.3)	98.60 (323.4)	185.10 (607.1)	185.10 (607.1)	9.44 (31.0)
25.40 [1000"]	20.77 (68.1)	24.88 (81.6)	29.12 (95.5)	37.63 (123.4)	37.28 (122.3)	54.17 (177.7)	53.79 (176.4)	104.36 (343.2)	103.05 (338.0)	164.38 (539.2)	164.59 (539.8)	-	-	15.78 (51.8)

For throw distances with fixed-focus lens ET-D75LE90, please visit the Panasonic Projector Global Website.



*14 Combination of primary/secondary input terminals is fixed. For the PT-DZ21K2/DS20K2, supported combinations are DVI-D (primary) and HDMI (secondary) terminals, or SDI 1 (primary) and SDI 2 (secondary) terminals. For the PT-DW17K2/DZ16K2, use the combination of DVI-D (primary) and HDMI (secondary) terminals. The Backup Input Setting is enabled only when the input signal to the primary and secondary terminals is the same. *15 Please contact your sales representative regarding a 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. Lamp replacement cycle is reduced to 1,000 hours and is affected by usage environment. *16 ET-LAD520P and ET-LAD520PF cannot be used with projector in landscape orientation.

Specifications

Model	PT-DZ21K2		PT-DS20K2	PT-DW17K2	PT-DZ16K2
Power supply	200–240 V AC, 50/60 Hz				
Power consumption	2,060 W (0.3 W with Standby Mode set to Eco*1, 4 W with Standby Mode set to Normal)				
Refresh rate	120 Hz*2			60 Hz*2	120 Hz*2
DLP™ chip	Panel size	24.4 mm (0.96") diagonal (16:10 aspect ratio)		24.1 mm (0.95") diagonal (4:3 aspect ratio)	24.1 mm (0.95") diagonal (16:9 aspect ratio)
	Display method	DLP™ chip x 3, DLP™ projection system			
	Pixels	2,304,000 (1920 x 1200) x 3, total of 6,912,000 pixels	1,470,000 (1400 x 1050) x 3, total of 4,410,000 pixels	1,049,088 (1366 x 768) x 3, total of 3,147,264 pixels	2,073,600 (1920 x 1080) x 3, total of 6,220,800 pixels
Lamp	Normal	UHM lamp x 4 (432 W), replacement cycle of up to 3,000 hours*3			
	Portrait	UHM lamp x 4 (432 W), replacement cycle of up to 1,000 hours			
Lens	Optional powered zoom and fixed-focus lenses				
Screen size (diagonal)	1.78–25.4 m (70–1,000"), 3.05–15.24 m (120–600") with ET-D75LE90, 1.78–15.24 m (70–600") with ET-D75LE8, 16:10 aspect ratio		1.78–25.4 m (70–1,000"), 3.05–15.24 m (120–600") with ET-D75LE90, 1.78–15.24 m (70–600") with ET-D75LE8, 4:3 aspect ratio	1.78–25.4 m (70–1,000"), 3.05–15.24 m (120–600") with ET-D75LE90, 1.78–15.24 m (70–600") with ET-D75LE8, 16:9 aspect ratio	
Brightness*4	20,000 lm (four-lamp)			17,000 lm (four-lamp)	16,000 lm (four-lamp)
Center-to-corner uniformity*4	90 %				
Contrast*4	10,000:1 (full on/off, with Dynamic Iris set to "3")				
Resolution	1920 x 1200 pixels		1400 x 1050 pixels (input signals that exceed this resolution will be converted to 1400 x 1050 pixels)	1366 x 768 pixels (input signals that exceed this resolution will be converted to 1366 x 768 pixels)	1920 x 1080 pixels (input signals that exceed this resolution will be converted to 1920 x 1080 pixels)
Scanning frequency	SDI	Dual-link 3G-SDI	SMPTTE ST 425 compliant, [YPbPr 4:4:4 12bit/10bit] 1080/60p, 1080/50p, 2048 x 1080/60p, 2048 x 1080/50p, [RGB 4:4:4 12bit/10bit] 1080/60p, 1080/50p, 2048 x 1080/60p, 2048 x 1080/50p, 2048 x 1080/48p		—
		Dual-link HD-SDI	SMPTTE ST 372 compliant, [RGB 4:4:4 12bit/10bit] 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sf, 1080/30p, 2048 x 1080/24p, 2048 x 1080/24sf, [X'Y'Z' 4:4:4 12bit] 2048 x 1080/24p, 2048 x 1080/24sf		—
	3G-SDI	SMPTTE ST 424 compliant, [YPbPr 4:2:2 10bit] 1080/50p, 1080/60p, [RGB 4:4:4 12bit/10bit] 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sf, 1080/30p	—	SMPTTE ST 424 compliant, [YPbPr 4:2:2 10bit] 1080/50p, 1080/60p, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sf, 1080/30p	
		SMPTTE ST 292 compliant, [YPbPr 4:2:2 10bit] 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sf, 1080/30p	—	SMPTTE ST 292 compliant, [YPbPr 4:2:2 10bit] 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sf, 1080/30p	
	SD-SDI	SMPTTE ST 259 compliant, [YCbCr 4:2:2 10bit] 480i, 576i	—	SMPTTE ST 259 compliant, [YCbCr 4:2:2 10bit] 480i, 576i	
	HDMI/DVI-D/DIGITAL LINK	480p, 576p, 480i*5, 576i*5, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sf, 1080/25p, 1080/30p, 1080/60p, 1080/50p, VGA (640 x 480)–WUXGA*6 (1920 x 1200), compatible with non-interlaced signals only, dot clock: 25–162 MHz			
DVI-D/HDMI simultaneous input	1920 x 1200p, 1920 x 1080p, 1400 x 1050p, 1366 x 768p, 120 Hz/100 Hz				
RGB	fh: 15–100 kHz, fv: 24–120 Hz, dot clock: 13.5–162 MHz				
YPbPr (YCbCr)	fh: 15.73 kHz, fv: 59.94 Hz [480i (525i)], fh: 15.63 kHz, fv: 50 Hz [576i (625i)], fh: 45.00 kHz, fv: 60 Hz [720 (750)/60p], fh: 33.75 kHz, fv: 60 Hz [1035 (1125)/60i], fh: 28.13 kHz, fv: 50 Hz [1080 (1125)/50i], fh: 27.00 kHz, fv: 24 Hz [1080 (1125)/24p], fh: 33.75 kHz, fv: 30 Hz [1080 (1125)/30p], fh: 56.25 kHz, fv: 50 Hz [1080 (1125)/50p], fh: 31.47 kHz, fv: 59.94 Hz [480p (525p)], fh: 31.25 kHz, fv: 50 Hz [576p (625p)], fh: 37.50 kHz, fv: 50 Hz [720 (750)/50p], fh: 33.75 kHz, fv: 60 Hz [1080 (1125)/60i], fh: 28.13 kHz, fv: 25 Hz [1080 (1125)/25p], fh: 27.00 kHz, fv: 48 Hz [1080 (1125)/24sf], fh: 67.50 kHz, fv: 60 Hz [1080 (1125)/60p]				
Video/Y/C	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*7 (from center of screen)	Vertical	±55 % (±44 % with ET-D75LE6, +73 – +78 % with ET-D75LE90) (powered)	±50 % (±40 % with ET-D75LE6, +71 % (fixed) with ET-D75LE90) (powered)	±70 % (±60 % with ET-D75LE6, +78 – +96 % with ET-D75LE90) (powered)	±60 % (±50 % with ET-D75LE6, +75 – +88 % with ET-D75LE90) (powered)
	Horizontal	±20 % (±15 % with ET-D75LE6, ±6 % with ET-D75LE90) (powered)	±30 % (±20 % with ET-D75LE6, ±0 % (non-movable) with ET-D75LE90) (powered)	±30 % (±20 % with ET-D75LE6, -13 – +27 % [+; rightward] with ET-D75LE90) (powered)	±20 % (±15 % with ET-D75LE6, -12 – +14 % with ET-D75LE90) (powered)
Keystone correction range	Vertical: ±40 ° (±22 ° with ET-D75LE50, ±28 ° with ET-D75LE6, +5 ° with ET-D75LE90), horizontal: ±15 °				
Keystone correction range with optional Upgrade Kit	Vertical: ±45 ° (±40 ° with ET-D75LE10/20, ±22 ° with ET-D75LE50, ±28 ° with ET-D75LE6), horizontal: ±40 ° (±15 ° with ET-D75LE50/6)				
Installation	Ceiling/floor, front /rear, portrait (portrait mode requires optional lamp units)				Ceiling/floor, front /rear
Terminals	SDI IN	BNC x 2 (3G/HD/SD-SDI)			BNC x 1 (3G/HD/SD-SDI)
	3D SYNC IN/OUT	BNC x 1 (3D timing signal)			—
	3D SYNC OUT	BNC x 1 (3D timing signal)			—
	DVI-D IN	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)			
	HDMI IN	HDMI 19-pin x 1 (Deep Color, compatible with HDCP)			
	RGB 1 IN	BNC x 5 (RGB/YPbPr/YCbCr/VIDEO/YC x 1)			
RGB 2 IN	D-sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr x 1)				
SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)				
SERIAL OUT	D-sub 9-pin (male) x 1 for link control				
REMOTE 1 IN	M3 x 1 for wired remote control				
REMOTE 1 OUT	M3 x 1 for link control (for wired remote control)				
REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)				
LAN/DIGITAL LINK	RJ-45 x 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PjLink™ (class 1), Deep Color, HDCP				
Cabinet materials	Molded plastic				
Dimensions (W x H x D)	620 x 255 x 730 mm (24 13/32" x 10 1/32" x 28 3/4") (optional lens, legs and lens cover not included)				
Weight*8	Approximately 41 kg (90.4 lbs) (optional lens not included)				
Operation noise*4	46 dB				
Operating environment	Operating temperature: 0–45 °C (32–113 °F)*9, operating humidity: 10–80 % (no condensation)				
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit and ET-CUK10*10 Auto Screen Adjustment Kit)			Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software	
Supplied accessories	Power cord with secure lock, wireless/wired remote control unit, batteries (R6/AA type x 2), software CD-ROM (Logo Transfer Software, Multi Monitoring & Control Software)				

*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 This value (maximum, 50 % brightness) is calculated by continuously turning the lamp on for 2 hours and off for 0.25 hours. The lamp replacement cycle will decrease if the lamp is turned on/off more frequently, or if it is left on for longer intervals. *4 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *5 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal). *6 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). *7 Optical axis shift is not supported on the ET-D75LE50. *8 Average value. May differ depending on the actual unit. *9 When the projector is used in Portrait Mode with ET-LAD520P/LAD520PF or used in locations from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level, operating temperature range is 0 °C to 40 °C (32 °F to 104 °F). When used with Smoke Cut Filter, operating temperature range is 0 °C to 35 °C (32 °F to 95 °F), and the projector cannot be used in locations over 1,400 m (4,593 ft) above sea level. *10 Available worldwide except in the United States.

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