## Panasonic

## PT-DZ21K2 Series

3-Chip DLP™ Projectors

PT-DZ21K2 PT-DS20K2 PT-DW17K2





## POWER TO TRANSCEND







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 lmages

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	Brigl	ntness (lum	Lamp Replacement Cycle (hours)*2	
	DZ21K2 DS20K2	DW17K2	DZ16K2	DZ21K2 DW17K2 DS20K2 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.





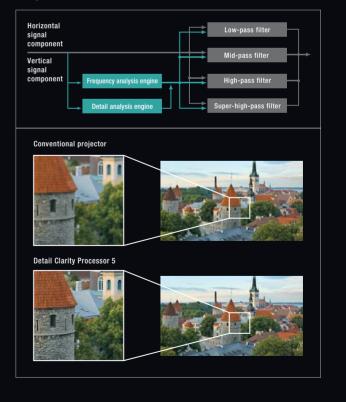
#### Active 3D Projection Capability (PT-DZ21K2/DS20K2)

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.

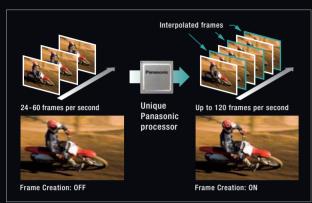


<sup>\*1</sup> PT-DW17K2 has 17,000 Im and PT-DZ16K2 has 16,000 Im of brightness. \*2 The values given for lamp replacement cycles are for landscape orientation. Usage environment affects lamp replacement cycle.

<sup>\*3</sup> Full On/Off, with Dynamic Iris set to \*

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

Together with a unique high-speed Real Motion Processer 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 Hz\*\* frame-rate, resulting in incredibly smooth and realistic reproduction of motion. Further, 120 Hz\*\* images can be displayed with Dual-link 3G-SDI, DVI-D, and HDMI simultaneous inputs.



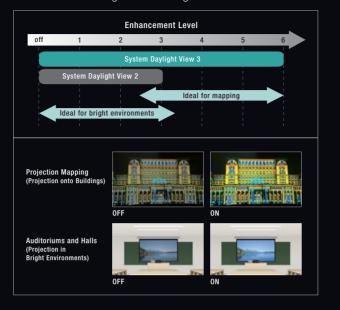
#### **Waveform Monitor Function**

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.



#### 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 lm<sup>∗s</sup>, the PT-DZ21K2 Series delivers clear and comfortable viewing even with the lights on.



#### DICOM Simulation Mode\*6

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.



#### **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 hours\*7. 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.

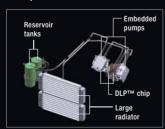
#### Easy Lamp Replacement

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.



#### **Liquid Cooling System Assures Reliable Operation**

A newly designed liquid cooling system directly cools the DLP™ chips to stabilize performance in temperatures of up to 45 °C (113 °F)\*s 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.



#### 

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 hours\*9 reduces hassle, and the eco-friendly washable filter can be reused, reducing cost and waste\*10.



#### System and Installation Flexibility with Diverse Functionality

DIGITAL

SINGLE CABLE SOLUTION

#### Single-Cable DIGITAL LINK Connection

## Transmit Video, Audio, and Control Signals Up to 150 m (492 ft) $^{\star 11}$

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

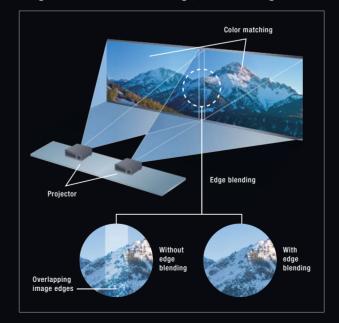
The ET-YFB200G DIGITAL LINK Switcher unit incorporates two DIGITAL LINK terminals. Video, audio, and control signals can be output to two display devices individually or simultaneously. Sources can be easily switched using the projector remote controller or via PC and tablet, and multiple Switchers can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

#### Compatible with Other Device Brands

Panasonic developed DIGITAL LINK by adding original features to the HDBaseT™ communication standard formulated by HDBaseT Alliance. DIGITAL LINK works seamlessly with other brands' peripheral devices supporting HDBaseT™ 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.



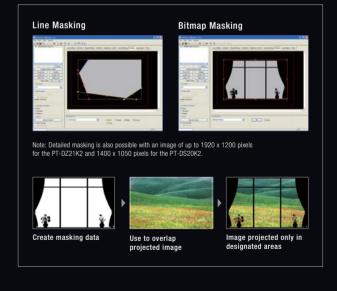
#### **Geometric Adjustment for Specially Shaped Screens**

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.



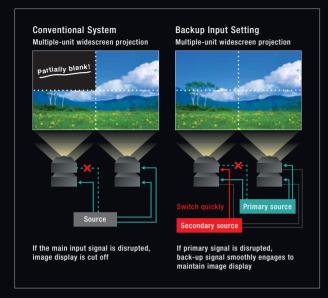
#### Multi Monitoring & Control Software

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 Im and PT-DZ16K2 has 16,000 Im 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 Poortrait Mode with ET-LAD520Pt-AD520PF or used in Indications from 1,400 mt 0,4593 ft to 8,556 ft) above sea level. operating temperature replacement is 0 °C to 40 °C,62° °F to 104 °F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 3 °C (62° °F to 104 °F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 3 °C (62° °F to 104 °F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 3 °C (62° °F to 104 °F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 3 °C (62° °F to 104 °F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 3 °C (62° °F to 104 °F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 3 °C (62° °F to 104 °F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 3 °C (62° °F to 104° F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 40° 5 °C (62° F) to 104° F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 40° 5 °C, 62° F to 104° F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 40° 5 °C, 62° F to 104° F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 40° 5 °C, 62° F to 104° F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 40° 5 °C, 62° F to 104° F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 40° 5 °C, 62° F to 104° F). When used with Snoke Cut Filter, operating temperature range is 0 °C to 40° 5 °C, 62° F to 104° F). When used with Snoke Cut Filter, operating temperatu

#### 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.



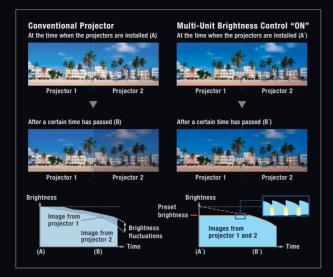
#### Art-Net DMX Compatible

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.



#### 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.



#### 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)

Diagonal						Throw	distance						
image size	ET-D7		ET-D7		ET-D7			5LE30		5LE40		75LE8	ET-D75LE50
	0.9-		1.3-		1.7-2		2.4-			7.4:1	7.3-1		0.7:1
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.78 [70"]	1.35	1.62	1.90	2.46	2.46	3.58	3.56	6.94	6.87	11.04	10.78	20.56	1.01
	(4.4)	(5.3)	(6.2)	(8.1)	(8.1)	(11.7)	(11.7)	(22.8)	(22.5)	(36.2)	(35.4)	(67.4)	(3.3)
2.54 [100"]	1.96	2.34	2.76	3.56	3.55	5.17	5.13	9.99	9.88	15.85	15.57	29.53	1.47
	(6.4)	(7.7)	(9.0)	(11.7)	(11.6)	(16.9)	(16.8)	(32.8)	(32.4)	(52.0)	(51.1)	(96.8)	(4.8)
3.05 [120"]	2.36	2.82	3.32	4.30	4.28	6.22	6.18	12.03	11.89	19.05	18.76	35.50	1.78
	(7.7)	(9.3)	(10.9)	(14.1)	(14.0)	(20.4)	(20.3)	(39.5)	(39.0)	(62.5)	(61.5)	(116.5)	(5.8)
3.81 [150"]	2.96	3.55	4.18	5.40	5.37	7.81	7.75	15.08	14.90	23.85	23.54	44.47	2.24
	(9.7)	(11.6)	(13.7)	(17.7)	(17.6)	(25.6)	(25.4)	(49.5)	(48.9)	(78.2)	(77.2)	(145.9)	(7.4)
5.08 [200"]	3.97	4.75	5.60	7.24	7.19	10.45	10.38	20.16	19.92	31.86	31.52	59.41	3.01
	(13.0)	(15.6)	(18.4)	(23.7)	(23.6)	(34.3)	(34.0)	(66.1)	(65.4)	(104.5)	(103.4)	(194.9)	(9.9)
7.62 [300"]	5.99	7.17	8.44	10.91	10.82	15.73	15.62	30.34	29.97	47.87	47.47	89.30	4.56
	(19.6)	(23.5)	(27.7)	(35.8)	(35.5)	(51.6)	(51.2)	(99.5)	(98.3)	(157.0)	(155.7)	(292.9)	(14.9)
15.24 [600"]	12.03	14.40	16.96	21.92	21.73	31.58	31.35	60.85	60.09	95.89	95.32	178.96	9.18
	(39.4)	(47.2)	(55.6)	(71.9)	(71.3)	(103.6)	(102.8)	(199.6)	(197.1)	(314.5)	(312.7)	(587.0)	(30.1)
25.40 [1000"]	20.08	24.06	28.33	36.61	36.27	52.70	52.33	101.53	100.25	159.93	159.13	-	15.35
,,	(65.9)	(78.9)	(92.9)	(120.1)	(119.0)	(172.9)	(171.6)	(333.0)	(328.8)	(524.6)	(521.9)	(-)	(50.3)

PT-DS20K2 (	4:3 aspe	ect ratio)											
Diagonal	Throw distance												
image size	ET-D75LE6		ET-D75LE10		ET-D75LE20		ET-D75LE30		ET-D75LE40		ET-D75LE8		ET-D75LE50
	1.0-1.2:1		1.4-1.8:1		1.8-2.6:1		2.6-5.1:1		5.0-8.0:1		7.9-15.0:1		0.8:1
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.78 [70"]	1.39	1.66	1.95	2.52	2.52	3.66	3.64	7.10	7.02	11.28	11.09	21.14	1.03
	(4.6)	(5.5)	(6.4)	(8.3)	(8.3)	(12.0)	(11.9)	(23.3)	(23.0)	(37.0)	(36.4)	(69.3)	(3.4)
2.54 [100"]	2.01	2.41	2.82	3.64	3.63	5.28	5.24	10.21	10.10	16.19	16.01	30.36	1.50
	(6.6)	(7.9)	(9.2)	(11.9)	(11.9)	(17.3)	(17.2)	(33.5)	(33.1)	(53.1)	(52.5)	(99.6)	(4.9)
3.05 [120"]	2.43	2.90	3.40	4.39	4.37	6.36	6.31	12.29	12.15	19.46	19.29	36.50	1.82
	(8.0)	(9.5)	(11.1)	(14.4)	(14.3)	(20.9)	(20.7)	(40.3)	(39.9)	(63.8)	(63.3)	(119.7)	(6.0)
3.81 [150"]	3.05	3.65	4.27	5.52	5.49	7.98	7.92	15.41	15.23	24.37	24.21	45.72	2.29
	(10.0)	(12.0)	(14.0)	(18.1)	(18.0)	(26.2)	(26.0)	(50.5)	(49.9)	(79.9)	(79.4)	(150.0)	(7.5)
5.08 [200"]	4.08	4.89	5.72	7.39	7.34	10.67	10.60	20.60	20.35	32.54	32.40	61.08	3.08
	(13.4)	(16.0)	(18.8)	(24.2)	(24.1)	(35.0)	(34.8)	(67.6)	(66.8)	(106.7)	(106.3)	(200.3)	(10.1)
7.62 [300"]	6.15	7.37	8.62	11.14	11.06	16.07	15.96	30.99	30.61	48.89	48.80	91.79	4.65
	(20.2)	(24.2)	(28.3)	(36.6)	(36.3)	(52.7)	(52.3)	(101.6)	(100.4)	(160.4)	(160.1)	(301.1)	(15.3)
15.24 [600"]	12.36	14.81	17.33	22.40	22.19	32.25	32.03	62.15	61.38	97.95	97.98	183.95	9.38
	(40.6)	(48.6)	(56.8)	(73.5)	(72.8)	(105.8)	(105.0)	(203.9)	(201.3)	(321.3)	(321.4)	(603.3)	(30.8)
25.40 [1000"]	20.64	24.73	28.93	37.40	37.05	53.83	53.45	103.71	102.41	163.36	163.56	_	15.68
	(67.7)	(81.1)	(94.9)	(122.7)	(121.5)	(176.6)	(175.3)	(340.2)	(335.9)	(535.8)	(536.5)	(-)	(51.4)

#### PT-DW17K2 (16:9 aspect ratio)

Diagonal	Throw distance												
image size	ET-D7	5LE6	ET-D7	5LE10	ET-D7	5LE20	ET-D7	5LE30	ET-D7	5LE40	ET-D75LE8		ET-D75LE50
	1.0-1		1.4-		1.8-		2.7-5.2:1			8.2:1	8.2-15.4:1		0.8:1
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
1.78 [70"]	1.56	1.87	2.18	2.82	2.82	4.10	4.07	7.94	7.86	12.62	12.43	23.65	1.16
	(5.1)	(6.1)	(7.2)	(9.3)	(9.2)	(13.5)	(13.4)	(26.1)	(25.8)	(41.4)	(40.8)	(77.6)	(3.8)
2.54 [100"]	2.25	2.70	3.16	4.08	4.06	5.91	5.87	11.42	11.30	18.10	17.92	33.94	1.69
	(7.4)	(8.8)	(10.3)	(13.4)	(13.3)	(19.4)	(19.3)	(37.5)	(37.1)	(59.4)	(58.8)	(111.3)	(5.5)
3.05 [120"]	2.72	3.25	3.80	4.92	4.89	7.11	7.07	13.74	13.59	21.75	21.58	40.80	2.04
	(8.9)	(10.7)	(12.5)	(16.1)	(16.0)	(23.3)	(23.2)	(45.1)	(44.6)	(71.3)	(70.8)	(133.8)	(6.7)
3.81 [150"]	3.41	4.08	4.78	6.17	6.14	8.92	8.86	17.22	17.02	27.23	27.08	51.09	2.57
	(11.2)	(13.4)	(15.7)	(20.3)	(20.1)	(29.3)	(29.1)	(56.5)	(55.8)	(89.3)	(88.8)	(167.6)	(8.4)
5.08 [200"]	4.56	5.47	6.40	8.27	8.21	11.93	11.85	23.03	22.75	36.36	36.23	68.25	3.45
	(15.0)	(17.9)	(21.0)	(27.1)	(26.9)	(39.1)	(38.9)	(75.5)	(74.6)	(119.3)	(118.8)	(223.8)	(11.3)
7.62 [300"]	6.87	8.24	9.64	12.46	12.36	17.96	17.83	34.63	34.20	54.62	54.54	102.55	5.21
	(22.5)	(27.0)	(31.6)	(40.9)	(40.5)	(58.9)	(58.5)	(113.6)	(112.2)	(179.2)	(178.9)	(336.4)	(17.1)
15.24 [600"]	13.80	16.55	19.36	25.02	24.80	36.03	35.78	69.43	68.56	109.40	109.47	205.46	10.48
	(45.3)	(54.3)	(63.5)	(82.1)	(81.3)	(118.2)	(117.4)	(227.7)	(224.9)	(358.8)	(359.1)	(673.9)	(34.4)
25.40 [1000"]	23.04	27.63	32.32	41.78	41.38	60.13	59.71	115.83	114.38	182.44	182.70	_	17.52
	(75.6)	(90.6)	(106.0)	(137.0)	(135.7)	(197.2)	(195.8)	(379.9)	(375.2)	(598.4)	(599.3)	(-)	(57.5)

#### PT-DZ16K2 (16:9 aspect ratio)

Diagonal		Throw distance											
image size	ET-D7 0.9-		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"]	1.40	1.67	1.96	2.53	2.53	3.68	3.66	7.14	7.07	11.36	11.16	21.28	1.04
	(4.6)	(5.5)	(6.4)	(8.3)	(8.3)	(12.1)	(12.0)	(23.4)	(23.2)	(37.2)	(36.6)	(69.8)	(3.4)
2.54 [100"]	2.03	2.42	2.83	3.67	3.65	5.31	5.28	10.28	10.16	16.29	16.11	30.55	1.51
	(6.6)	(7.9)	(9.3)	(12.0)	(12.0)	(17.4)	(17.3)	(33.7)	(33.3)	(53.4)	(52.8)	(100.2)	(5.0)
3.05 [120"]	2.44	2.92	3.42	4.42	4.40	6.40	6.35	12.37	12.23	19.58	19.41	36.73	1.83
	(8.0)	(9.6)	(11.2)	(14.5)	(14.4)	(21.0)	(20.8)	(40.6)	(40.1)	(64.2)	(63.7)	(120.5)	(6.0)
3.81 [150"]	3.07	3.67	4.29	5.55	5.52	8.03	7.97	15.50	15.32	24.52	24.36	46.00	2.31
	(10.1)	(12.0)	(14.1)	(18.2)	(18.1)	(26.3)	(26.1)	(50.8)	(50.3)	(80.4)	(79.9)	(150.9)	(7.6)
5.08 [200"]	4.11	4.92	5.75	7.44	7.39	10.74	10.67	20.73	20.48	32.75	32.61	61.46	3.10
	(13.5)	(16.1)	(18.9)	(24.4)	(24.2)	(35.2)	(35.0)	(68.0)	(67.2)	(107.4)	(107.0)	(201.6)	(10.2)
7.62 [300"]	6.19	7.41	8.67	11.21	11.13	16.17	16.06	31.18	30.80	49.20	49.11	92.37	4.68
	(20.3)	(24.3)	(28.5)	(36.8)	(36.5)	(53.0)	(52.7)	(102.3)	(101.0)	(161.4)	(161.1)	(303.0)	(15.4)
15.24 [600"]	12.44	14.90	17.44	22.54	22.33	32.46	32.23	62.54	61.76	98.56	98.60	185.10	9.44
	(40.8)	(48.9)	(57.2)	(73.9)	(73.3)	(106.5)	(105.7)	(205.1)	(202.6)	(323.3)	(323.4)	(607.1)	(31.0)
25.40 [1000"]	20.77	24.88	29.12	37.63	37.28	54.17	53.79	104.36	103.05	164.38	164.59	_	15.78
	(68.1)	(81.6)	(95.5)	(123.4)	(122.3)	(177.7)	(176.4)	(342.3)	(338.0)	(539.2)	(539.8)	(-)	(51.8)

#### Ontional Accessories

unit: meters (feet)

ET-D75LE6

ET-D75LE10

FT-D751 F20







ET-PFD510



FT-D751 F8









FT-I AD520F











ET-D75MC1 Lens motor cover









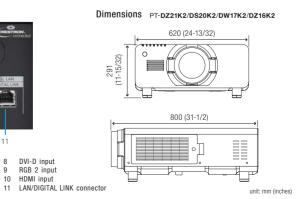
ET-CUK10 Auto Screen Adjustment Upgrade Kit (except in the United States)



ET-SWA100 Early Warning Software

# 4 5

- Remote 2 input
- 3D Sync input/output (PT-D721K2/DS20K2 only)
- 3D Sync output (PT-DZ21K2/DS20K2 only)
- SDI 1 input (PT-DZ21K2/DS20K2/DZ16K2 only)
- SDI 2 input (PT-DZ21K2/DS20K2 only)
  - 7 RGB 1 input
- DVI-D input RGB 2 input HDMI input



<sup>\*14</sup> Combination of primary/secondary input terminals is fixed. For the PT-D221K2/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 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			<u>'                                    </u>				
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 siz	ze	24.4 mm (0.96") diagonal (16:10 aspect ratio)	24.1 mm (0.95") diagonal (4:3 aspect ratio)	21.6 mm (0.85") diagonal (16:9 aspect ratio)	24.1 mm (0.95") diagonal (16:9 aspect ratio)				
	Display I	method	DLP™ chip x 3, DLP™ projection system		1					
	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 unif	ormity*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	SMPTE ST 425 compliant, [YPBPR 4:4:4 12bit/10bi 2048 x 1080/50p, 2048 x 1080/48p, [RGB 4:4:4 1 2048 x 1080/60p, 2048 x 1080/50p, 2048 x 1080/5	2bit/10bit] 1080/60p, 1080/50p, 0/48p		_				
		Dual-link HD-SDI	SMPTE ST 372 compliant, [RGB 4:4:4 12bit/10bit] 1080/24sF, 1080/30p, 2048 x 1080/24p, 2048 x 2048 x 1080/24sF	1080/24sF, [X'Y'Z' 4:4:4 12bit] 2048 x 1080/24p,		_				
		3G-SDI	SMPTE ST 424 compliant, [YPBPR 4:2:2 10bit] 108 [RGB 4:4:4 12bit/10bit] 1080/50i, 1080/60i, 1080		_	SMPTE 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				
		HD-SDI	SMPTE ST 292 compliant, [YPBPR 4:2:2 10bit] 720 1080/25p, 1080/24p, 1080/24sF, 1080/30p		_	SMPTE ST 292 compliant, [YPBPR 4:2:2 10bit] 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/6 1080/25p, 1080/24p, 1080/24sF, 1080/30p				
		SD-SDI	SMPTE ST 259 compliant, [YCBCR 4:2:2 10bit] 480	)i, 576i	_	SMPTE ST 259 compliant, [YCBCR 4:2:2 10bit] 480i, 576i				
	HDMI/DV DIGITAL	LINK	VGA (640 x 480)-WUXGA*6 (1920 x 1200), compa	080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/2 tible with non-interlaced signals only, dot clock: 25–						
	DVI-D/H simultan	DMI eous input	1920 x 1200p, 1920 x 1080p, 1400 x 1050p, 136	6 x 768p, 120 Hz/100 Hz						
	RGB		fH: 15-100 kHz, fV: 24-120 Hz, dot clock: 13.5-16	62 MHz						
	YPBPR (\	/CBCR)	fH: 28.13 kHz, fV: 50 Hz [1080 (1125)/50i], fH: 27. fH: 31.47 kHz, fV: 59.94 Hz [480p (525p)], fH: 31.2	3 kHz, fV: 50 Hz [576i (625i)], fH: 45.00 kHz, fV: 60 00 kHz, fV: 24 Hz [1080 (1125)/24p], fH: 33.75 kHz, 25 kHz, fV: 50 Hz [576p (625p)], fH: 37.50 kHz, fV: 8 00 kHz, fV: 48 Hz [1080 (1125)/24sF], fH: 67.50 kH	, fV: 30 Hz [1080 (1125)/30p], fH: 56.25 kHz, fV: 50 50 Hz [720 (750)/50p], fH: 33.75 kHz, fV: 60 Hz [10	) Hz [1080 (1125)/50p],				
	Video/Y/	С		-M/PAL60], fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/S	ECAM]					
Optical axis shift*7 (from center of screen)	Vertical		$\pm 55$ % (±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)				
	Horizont	al	±20 % (±15 % with ET-D75LE6, ±6 % with ET-D75LE90) (powered)	$\pm 30$ % ( $\pm 20$ % with ET-D75LE6, $\pm 0$ % (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 r	ange		Vertical: $\pm 40$ ° (± 22 ° with ET-D75LE50, $\pm 28$ ° w	ith ET-D75LE6, +5 $^{\circ}$ with ET-D75LE90), horizontal:	±15 °					
Keystone correction rang	je with opti	onal Upgrade Kit	Vertical: $\pm 45$ ° ( $\pm 40$ ° with ET-D75LE10/20, $\pm 22$ ° horizontal: $\pm 40$ ° ( $\pm 15$ ° with ET-D75LE50/6)	with ET-D75LE50, ±28 ° with ET-D75LE6),		_				
Installation			Ceiling/floor, front /rear, portrait (portrait mode requ	ures ontional lamp units)	I .	Ceiling/floor, front /rear				
Terminals	SDI IN		BNC x 2 (3G/HD/SD-SDI)	and optional tump unito)	_	BNC x 1 (3G/HD/SD-SDI)				
Terminais	3D SYNO		BNC x 1 (3D timing signal) BNC x 1 (3D timing signal)		_					
	DVI-D IN HDMI IN RGB 1 IN RGB 2 IN SERIAL I SERIAL I REMOTE REMOTE REMOTE	I I IN DUT : 1 IN : 1 OUT : 2 IN	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible wit HDM 119-pin x 1 (Deep Color, compatible with HDC BNC x 5 (R6B/VPBPR/VGEG/NIDEO/VC x 1) D-sub HD 15-pin (female) x 1 for external control (RS-2: D-sub 9-pin (female) x 1 for external control (RS-2: D-sub 9-pin (male) x 1 for link control M3 x 1 for wired remote control M3 x 1 for link control for wired remote control) D-sub 9-pin (female) x 1 for int or external control (parallibre D-sub 9-pin (female) x 1 for int or external control)	P) x 1) t2C compliant)	ss 1), Deep Color, HDCP					
Cabinet materials			Molded plastic							
Dimensions (W x H x I	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 inc	cluded)						
Operation noise*4			46 dB							
Operating environmen	nt		Operating temperature: 0-45 °C (32-113 °F)*9, op	perating humidity: 10-80 % (no condensation)						
Applicable software			Logo Transfer Software, Multi Monitoring & Control Geometry Manager Pro (ET-UK20 Upgrade Kit and	ET-CUK10*10 Áuto Screen Adjustment Kit)	Logo Transfer Software, Multi Monitoring & Contro					
Supplied accessories			Power cord with secure lock, wireless/wired remote	control unit, batteries (R6/AA type x 2), software CI	D-ROM (Logo Transfer Software, Multi Monitoring &	Control Software)				

<sup>\*1</sup> 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 21TH lin International standards. \*5 Only compatible with dot clock frequent repetition signal, \*6 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (coordinal 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 95 °F), and the projector cannot be used in locations over 1,400 m (4,593 ft) above sea level, 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, 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, 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, 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, operating temperature range is 0 °C to 35 °C (32 °F to 95 °F).

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