

**Panasonic**

# PRELIMINARY BROCHURE

PT-DZ21k2, PT-DS20k2

PT-DW17k2, PT-DZ16k2



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### Specifications (Tentative)

Model	PT-DZ21K2	PT-DS20K2	PT-DW17K2	PT-DZ16K2
Power supply	200–240 V AC, 50/60 Hz			
Power consumption	<2300 W (TBD) (0.3 W with Standby Mode set to Eco <sup>1</sup> , 4 W with Standby Mode set to Normal)			
DLP™ chip	24.4 mm (0.96 in) diagonal (16:10 aspect ratio)	24.1 mm (0.95 in) diagonal (4:3 aspect ratio)	21.6 mm (0.85 in) diagonal (16:9 aspect ratio)	24.1 mm (0.95 in) diagonal (16:9 aspect ratio)
Panel size	24.4 mm (0.96 in) diagonal (16:10 aspect ratio)			
Display method	DLP™ chip × 3, DLP™ projection system			
Pixels	2,304,000 (1920 × 1200) × 3, total of 6,912,000 pixels	1,470,000 (1400 × 1050) × 3, total of 4,410,000 pixels	1,049,088 (1366 × 768) × 3, total of 3,147,264 pixels	2,073,600 (1920 × 1080) × 3, total of 6,220,800 pixels
Refresh Rate	120 Hz <sup>2</sup>			
Lens	Optional powered zoom and fixed-focus lenses			
Lamp	Normal Portrait	UHLM lamp x 4, replacement cycle of up to 3,000 hours <sup>3</sup>		—
Screen size (diagonal)	1.78–25.4 m (70–1000 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 3.05–15.24 m (120–600 in) with the ET-D75LE90, 16:10 aspect ratio			
Brightness <sup>4</sup>	20,000 lm		17,000 lm	16,000 lm
Center-to-corner uniformity <sup>4</sup>	90 %			
Contrast <sup>4</sup>	10,000:1 (full on/off, with dynamic iris set to "3")			
Resolution	1920 × 1200 pixels	1400 × 1050 pixels	1366 × 768 pixels	1920 × 1080 pixels
Scanning frequency	SDI SDI-SDI HD-SDI 3G-SDI Dual link HD-SDI Dual link 3G-SDI	SMPT ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i, 576i SMPT 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 SMPT 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 SMPT 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] 2048 × 1080/24p, 2048 × 1080/24sf SMPT ST 425 compliant, [YPbPr 4:4:4 12-bit/10-bit] 1080/60p, 1080/50p, 2048 × 1080/60p, 2048 × 1080/50p, 2048 × 1080/48p, [RGB 4:4:4 12-bit/10-bit] 1080/60p, 1080/50p, 2048 × 1080/60p, 2048 × 1080/50p, 2048 × 1080/48p	—	SMPT ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i, 576i SMPT 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 SMPT 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/DIGITAL LINK	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 <sup>5</sup> (1920 × 1200), compatible with non-interlaced signals only, dot clock: 25–162 MHz			
DVI-D/HDMI simultaneous input	1920 × 1200p, 1920 × 1080p, 1400 × 1050p, 1366 × 768p, 120 Hz/100 Hz			
RGB	fh: 15–100 kHz, fv: 24–120 Hz, dot clock: 13.5–162 MHz			
YPbPr (YCbCr)	fh: 15.75 kHz, fv: 60 Hz [480i (625i)], fh: 37.50 kHz, fv: 50 Hz [720 (750/50p)], fh: 27.00 kHz, fv: 24 Hz [1080 (1125/24p)], fh: 31.50 kHz, fv: 60 Hz [480p (525p)], fh: 33.75 kHz, fv: 60 Hz [1035 (1125/60i)], fh: 27.00 kHz, fv: 48 Hz [1080 (1125/24sf)], fh: 15.63 kHz, fv: 50 Hz [576i (625i)], fh: 33.75 kHz, fv: 60 Hz [1080 (1125/60i)], fh: 33.75 kHz, fv: 30 Hz [1080 (1125/30p)], fh: 31.25 kHz, fv: 50 Hz [576p (625p)], fh: 28.13 kHz, fv: 50 Hz [1080 (1125/50i)], fh: 67.50 kHz, fv: 60 Hz [1080 (1125/60p)], fh: 45.00 kHz, fv: 60 Hz [720 (750/60p)], fh: 28.13 kHz, fv: 25 Hz [1080 (1125/25p)], fh: 56.25 kHz, fv: 50 Hz [1080 (1125/50p)]			
Video / Y/C	fh: 15.75 kHz/15.63 kHz, fv: 50 Hz/60 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]			
Optical axis shift <sup>6</sup>	Vertical (from center of screen) Horizontal (from center of screen)	±55 % (±44 % with the ET-D75LE6, +73 – 78 % with the D75LE90) (powered) ±20 % (±15 % with the ET-D75LE6, ±6 % with the D75LE90) (powered)	±50 % (±40 % with the ET-D75LE6, +71 % [fixed] with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, ±0 % [non-movable] with the D75LE90) (powered)	±70 % (±60 % with the ET-D75LE6, +78 – 96 % with the D75LE90) (powered) ±30 % (±20 % with the ET-D75LE6, -13 – +27 % [+/- rightward] with the D75LE90) (powered)
Keystone correction range	Vertical: ±40 °, horizontal: ±15 °			
Keystone correction range with the optional upgrade kit ET-UK20	Vertical: ±45 °, horizontal: ±40 °			
Installation	Ceiling/floor, front/rear, portrait		Ceiling/floor, front/rear	
Terminals	SDI IN DVI-D IN HDMI IN RGB 1 IN RGB 2 IN 3D SYNC IN/OUT 3D SYNC OUT SERIAL IN SERIAL OUT REMOTE 1 IN REMOTE 1 OUT REMOTE 2 IN LAN/DIGITAL LINK	BNC × 2 (3G/HD/SD-SDI) DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only) HDMI 19-pin × 1 (Deep Color, compatible with HDCP) BNC × 5 (RGB/YPbPr/VIDEO/YC × 1) D-sub HD 15-pin (female) × 1 (RGB/YPbPr × 1) BNC × 1 (3D timing signal) BNC × 1 (3D timing signal) D-sub 9-pin (female) × 1 for external control (RS-232C compliant) D-sub 9-pin (male) × 1 for link control M3 × 1 for wired remote control M3 × 1 for link control (for wired remote control) D-sub 9-pin (female) × 1 for external control (parallel) RJ-45 × 1 for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PjLink™ (class 1), Deep Color, HDCP	—	BNC x 1 (3G/HD/SD-SDI)
Cabinet materials	Molded plastic			
Dimensions (W × H × D)	620 × 255 × 730 mm (24 13/32" × 10 1/32" × 28 3/4") (optional lens, legs and lens cover not included)			
Weight <sup>7</sup>	Approximately 43 kg (94.8 lbs) (optional lens not included)			
Operation noise <sup>4</sup>	TBD			
Operating environment	Operating temperature: 0–45 °C (32–113 °F) <sup>8</sup> , operating humidity: 10–80 % (no condensation)			
Applicable software	Logo Transfer Software, Multi Projector Monitoring & Control Software, Geometry Manager Pro (ET-UK20 Upgrade Kit and ET-CLK10 <sup>9</sup> Auto Screen Adjustment Kit)		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), software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software) (× 1)			

<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. <sup>2</sup> Refresh rate varies depending on scanning frequency. <sup>3</sup> 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. <sup>4</sup> Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. <sup>5</sup> WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). <sup>6</sup> Optical axis shift is not supported on the ET-D75LE50. <sup>7</sup> Average value. May differ depending on the actual unit. <sup>8</sup> Operating temperature range is 0–40 °C (32–104 °F) when Fan Control is set to High Altitude Mode for altitudes 1,400–2,700 m (4,593–8,858 ft) above sea level. With ET-LAD520P/LAD520PF mounted for Portrait Mode, operating temperature range is 0–40 °C (32–104 °F). <sup>9</sup> Available worldwide except in the United States.

### Optional Accessories

- **Fixed-Focus Lens**  
ET-D75LE50 (Short Throw)  
ET-D75LE90 (Ultra Short Throw)
- **Zoom Lens**  
ET-D75LE6 / ET-D75LE10 / ET-D75LE20  
ET-D75LE30 / ET-D75LE40 / ET-D75LE8
- **Geometry Manager Pro Software Upgrade Kit**  
ET-UK20
- **Auto Screen Adjustment Upgrade Kit**  
ET-CLK10 (except in the United States)
- **High-Ceiling Mount Bracket**  
ET-PK0520H
- **Low-Ceiling Mount Bracket**  
ET-PK0520S
- **Bracket Assembly**  
ET-PK0520B
- **Projector Frame**  
ET-PF0510
- **Replacement Lamp Unit**  
ET-LAD520S (one bulb)  
ET-LAD520F (a set of four bulbs)  
ET-LAD520P (for portrait mode, one bulb)  
ET-LAD520PF (for portrait mode, a set of four bulbs)
- **Replacement Filter**  
ET-EMF510
- **Smoke Cut Filter**  
Available as Service Parts
- **Early Warning Software**  
ET-SWA100 Series
- **Digital Interface Switcher/Box**  
ET-YFB200G/100G

## Compact 20,000 lm Projector Delivers Stunning Picture Quality with High Frame-Rate



PT-DZ21K2 Series				
	PT-DZ21K2	PT-DS20K2	PT-DW17K2	PT-DZ16K2
Brightness	20,000 lm	20,000 lm	17,000 lm	16,000 lm
Resolution	WUXGA	SXGA+	WXGA	Full HD
Contrast	10,000:1	10,000:1	10,000:1	10,000:1

### Ultra-Bright and Detailed Images

- 20,000 lm Brightness (DW17K2: 17,000 lm, DZ16K2: 16,000 lm) for Large Venues
- Real Motion Processor Combines Frame-Creation and 120 Hz Processing for Fluid Motion Reproduction (PT-DZ21K2, DS20K2, DZ16K2)
- Next-Generation Detail Clarity Processor Delivers Crisp and Detailed Image Quality
- High 10,000:1\*1 Contrast Ratio with Dynamic Iris
- System Daylight View 3 for Enhanced Color Performance in Bright Rooms and Mapping Applications
- Waveform Monitor Function for Easy Adjustment of Black/White Level
- DICOM Simulation Mode for Medical Presentations and Training\*2
- Active 3D Projection Capability (PT-DZ21K2/DS20K2)

### High Reliability and Low TCO

- Extended Lamp Replacement Cycle of 3,000 Hours\*3
- Liquid Cooling with Highly Efficient Quad-Lamp System Reduces Operational Noise
- Stable Operation in Ambient Temperatures of up to 45 °C\*4
- Quad-Lamp System Allows 24/7 Operation in Lamp Relay Mode
- Easy Lamp Replacement from Rear Side
- Eco Filter Requires No Maintenance for 12,000 Hours\*5
- Durable, Precision-Tuned Optical Engine
- High Efficiency Lamps Reduce Power Consumption

### Versatile Installation Flexibility

- Flexible Installation with 360 ° Vertical Cabinet Rotation
- Multi-Screen Support Seamlessly Joins Screens with Edge Blending, Color Matching, and Multi-Screen Processing
- Geometric Adjustment for Projection on Curved or Spherical Surfaces (PT-DZ21K2/DS20K2)
- Compatible with Optional Upgrade Kit (ET-UK20) Featuring Geometry Manager Pro (PT-DZ21K2/DS20K2)
- Multi-Unit Brightness Control
- Compatible with Panasonic Multi Projector Monitoring & Control Software
- Single-Cable DIGITAL LINK Connection Transmits Video and Control Signals for up to 100 m
- Portrait Mode Capability with Optional Lamp Unit\*6
- Abundant Terminals Including 3G-SDI Inputs (DZ21K2/DS20K2 Features Inputs x 2, DZ16K2 Input x 1)

