Panasonic
ideas for life

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

PICTURE BY
DLP™
A TEXAS INSTRUMENTS TECHNOLOGY

PT-**DZ21K**	PT-**DS20K**	PT-**DW17K**
20,000 lm	20,000 lm	16,500 lm
WUXGA (1,920 × 1,200)	SXGA+ (1,400 × 1,050)	WXGA (1,366 × 768)

Splendid Image from a Compact Body

- Panasonic's unique quad-lamp system, with its new high-power lamps, has helped to make the body extremely compact while providing an astounding 20,000 lm[1] of brightness.
- Compact size, light weight and low operating noise let the PT-DZ21K Series suit more applications.
- The new dynamic iris achieves a high contrast ratio of 10,000:1.
- Detail Clarity Processor 3 brings depth and clarity to details.
- System Daylight View 2 enhances color perception with no need to turn off the lights.
- The DICOM Simulation mode.[2]
- Active 3D projection capability (PT-DZ21K/ DS20K).
- A waveform monitor function.
- Fine-adjustable color temperature.
- Full 10-bit signal processing.
- Advanced technologies for excellent image quality: 3D color management system, HD IP conversion, Digital noise reduction, Dynamic sharpness control.

High Reliability and Low TCO with Easy Maintenance

- Up to 2,000-hour[3] lamp replacement cycle.
- 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. Four, three, two and one lamp modes can be used.
- Environment-friendly, low power consumption of approx. 2,500 W.
- Easy lamp replacement from the rear.
- Newly developed optical engine and liquid cooling system minimize the hassle of maintenance.
- Liquid cooling system allows use in ambient temperatures from 0 °C to 45 °C (from 32 °F to 113 °F)[4] with a compact body and quiet operation.
- A dust-resistant cabinet and new, reusable "Eco Filter" that needs no replacement for 12,000 hours[5] protect optical components from dust.
- Optional Smoke Cut Filter ET-SFD510 available.

System and Installation Flexibility with Diverse Functions

- A lens-centered design, a wide range of optional lenses, powered H/V-lens shift, and flexible vertical 360-degree installation.
- Lens memory function.
- Lens lock function to secure the lens installation condition.
- Mechanical lens shutter with fade in/out effect.
- The Multi-Unit Brightness Control function.
- The Multi-Screen Support System: Edge blending, color matching and multi-screen processor.
- The Geometric Adjustment function.
- Optional "Geometry Manager Pro" available for more flexible geometric adjustment and masking function.
- Abundant terminals, including two SDI (3G SDI and HD SDI), DVI-D, HDMI and 3D timing signal in/out.
- P-in-P function.
- Multi Projector Monitoring & Control Software optionally available.
- A Scheduling function.
- RoHS Directive compliant.
- Carefully manufactured at the Panasonic factory in Japan, under strict quality control.

Model		PT-**DZ21K**	PT-**DS20K**	PT-**DW17K**
Power supply		200–240 V AC, 50/60 Hz		
Power consumption		2,500 W or less (0.5 W with STANDBY MODE set to ECO,*6 10 W with STANDBY MODE set to NORMAL. Both with fan stopped.)		
DLP™ chip	Panel size Display method Pixels	24.4 mm (0.96″) 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″) 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″) 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/focus and fixed-focus lens		
Lamp		465 W UHM lamp × 4, replacement cycle of up to 2,000 hours*3		
Screen size (diagonal)		1.78–15.24 m (70–600 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 16:10 aspect ratio	1.78–15.24 m (70–600 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 4:3 aspect ratio	1.78–15.24 m (70–600 in), 1.78–7.62 m (70–300 in) with the ET-D75LE5, 16:9 aspect ratio
Brightness*7		20,000 lm (four-lamp)		16,500 lm (four-lamp)
Center-to-corner uniformity*7		90 %		
Contrast*7		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*8 (1,920 × 1,200), compatible with non-interlaced signals only, dot clock: 25–162 MHz		
	RGB	f_H: 15–100 kHz, f_V: 24–120 Hz, dot clock: 20–162 MHz		
	YPBPR (YCBCR)	f_H: 15.75 kHz, f_V: 60 Hz [480i (525i)] f_H: 31.50 kHz, f_V: 60 Hz [480p (525p)] f_H: 15.63 kHz, f_V: 50 Hz [576i (625i)] f_H: 31.25 kHz, f_V: 50 Hz [576p (625p)] f_H: 45.00 kHz, f_V: 60 Hz [720 (750)/60p]	f_H: 37.50 kHz, f_V: 50 Hz [720 (750)/50p] f_H: 33.75 kHz, f_V: 60 Hz [1035/60i] f_H: 33.75 kHz, f_V: 60 Hz [1080 (1125)/60i] f_H: 28.13 kHz, f_V: 50 Hz [1080 (1125)/50i] f_H: 28.13 kHz, f_V: 50 Hz [1080 (750)/25p]	f_H: 27.00 kHz, f_V: 24 Hz [1080/24p] f_H: 27.00 kHz, f_V: 48 Hz [1080/24sF] f_H: 33.75 kHz, f_V: 30 Hz [1080/30p] f_H: 67.50 kHz, f_V: 60 Hz [1080/60p] f_H: 56.25 kHz, f_V: 50 Hz [1080/50p]
	Video/YC	f_H: 15.75 kHz, f_V: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60], f_H: 15.63 kHz, f_V: 50 Hz [PAL/PAL-N/SECAM]		
Optical axis shift	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°*9 (±22° *9 with the ET-D75LE5, ±28° with the ET-D75LE6), horizontal: ±15° *9		Vertical: ±40° (±22° *9 with the ET-D75LE5, ±28° with the ET-D75LE6)
Keystone correction range with optional Geometry Manager Pro		Vertical: ±40°*9 (±22° *9 with the ET-D75LE5, ±28° with the ET-D75LE6), horizontal: ±40° *9	–	
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 HDMI IN RGB 1 IN RGB 2 IN VIDEO IN SERIAL IN SERIAL OUT REMOTE 1 IN REMOTE 1 OUT REMOTE 2 IN LAN	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/YCBCR/YC × 1) D-Sub HD 15-pin (female) × 1 (RGB/YPBPR/YCBCR × 1) BNC × 1 (composite video) 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 connection, 10Base-T/100Base-TX, compliant with PJLink™)		
Cabinet materials		Molded plastic		
Dimensions (W × H × D)		620 × 291*10 × 800 mm (24-7/16 × 11-15/32*10 × 31-1/2 in) (optional lens not included)		
Weight*11		Approximately 50 kg (110.2 lbs) or less (optional lens not included)		
Operating environment		Operating temperature: 0 °C–45 °C (32 °F–113 °F)*4, operating humidity: 20%–80% (no condensation)		
Applicable software		Logo Transfer Software, Multi Projector Monitoring & Control Software, Geometry Manager Pro (optional)		Logo Transfer Software, Multi Projector Monitoring & Control Software
Supplied accessories		Power cord with secure lock, wireless/wired remote control unit, batteries (R6/LR6/AA type × 2)		

Optional accessories

Zoom lens
ET-D75LE6
ET-D75LE10
ET-D75LE20
ET-D75LE30
ET-D75LE4
ET-D75LE8

Fixed-focus lens
ET-D75LE5

Ceiling mount bracket
ET-PKD510H (for high ceilings)
ET-PKD510S (for low ceilings)

Frame
ET-PFD510

Replacement lamp unit
ET-LAD510
ET-LAD510F (four pack)

Replacement filter unit
ET-EMF510

Smoke cut filter unit
ET-SFD510

Replacement smoke cut filter
ET-SRD510

Upgrade kit
ET-UK20
(Geometry Manager Pro included)

*1 The PT-DW17K has 16,500 lm of brightness. *2 This product is not a medical instrument. Do not use it for actual medical diagnosis. *3 The usage environment affects the lamp replacement cycle. *4 The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the HIGH ALTITUDE MODE is set to ON (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). When used with the Smoke Cut Filter, the operating temperature range is 0 °C to 35 °C (32 °F to 95 °F). *5 The usage environment affects the duration of the filter. *6 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. *7 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *8 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). *9 Correction range is limited during simultaneous horizontal and vertical correction. 10 With legs at shortest position. *11 Average value. May differ depending on models.

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