Panasonic

ideas for life

PRELIMINARY
As of January 2013

PT-**DZ13K** Series

3-Chip DLP™ Projectors

Available from May 2013

The World's*1 Smallest and Lightest 12,000-lm Projectors

PICTURE BY DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

3D PROFESSIONAL

PT-**DZ13K**	PT-**DS12K**	PT-**DW11K**	PT-**DZ10K**
12,000 lm	12,000 lm	11,000 lm	10,600 lm
WUXGA (1920 × 1200)	SXGA+ (1400 × 1050)	WXGA (1366 × 768)	WUXGA (1920 × 1200)

High Brightness and Picture Quality

- Unique lamp drive systems have helped to make the body compact, while providing a high 12,000 lm*2 of brightness.
- Full-HD-ready WUXGA resolution.
- 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.*3
- Active 3D projection capability.*4
- A waveform monitor function.
- Full 10-bit signal processing.
- Rec. 709 mode for HDTV projection.
- Advanced technologies for excellent image quality: 3D color management system, HD IP conversion, digital noise reduction, dynamic sharpness control.

Reliability and Stability

- Panasonic's unique Dual Lamp System eliminates a sudden interruption if a lamp should fail.
- The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection.
- Original cooling system enables a compact body and quiet operation.
- A dust-resistant cabinet and reusable "Eco Filter" that needs no replacement for 12,000 hours*5 protect optical components from dust.
- New 380-W*6 lamp and new drive system improve reliability and achieve long life.
- Lamp replacement cycle of up to 2,000 hours.*7
- Easy lamp replacement from the rear.
- Optional Smoke Cut Filter ET-SFD320 available.

System Integration Flexibility

- A lens-centered design, a wide range of optional lenses, power H/V-lens shift, and flexible vertical 360-degree installation.
- Lens memory function.
- Automatic cooling mode setting.
- Mechanical shutter with fade in/out effect.
- The new Geometric Adjustment function.*8
- Optional "Geometry Manager Pro Ver. 1.1" for more flexible geometric adjustment and modified masking functions.*9
- The Multi-Unit Brightness Control function.
- The Multi-Screen Support System: Edge blending, color matching and multi-screen processor.
- Portrait mode projection available later on.*10
- Abundant terminals, including two SDI (3G SDI and HD SDI),*11 DVI-D, HDMI and 3D timing signal (in/out) terminals.*12
- Compatible with Creston RoomView™ and AMX Device Discovery.
- Multi Projector Monitoring & Control Software allows multiple projectors to be managed together over a wired LAN.
- Web browser control over a wired LAN.
- PJLink™ compatibility.

***1** For the projectors with brightness above 12,000 lm as of January 2013. ***2** The PT-DW11K has 11,000 lm of brightness and PT-DZ10K has 10,600 lm brightness. ***3** This product is not a medical instrument. Do not use it for actual medical diagnosis. ***4** Not featured on the PT-DZ10K. ***5** The usage environment affects the duration of the filter. ***6** 355-W lamps for the PT-DZ10K. ***7** Except the PT-DZ10K. With the LAMP POWER set to HIGH mode. The usage environment affects the lamp replacement cycle. ***8** For the PT-DZ13K/DS12K only. The PT-DZ10K has the same Geometric Adjustment function that is featured on the previous models. Either Geometric Adjustment function. The PT-DW11K features neither of them. ***9** For the PT-DZ13K/DS12K. ***10** Optional lamp units for portrait projection required. ***11** For the PT-DZ13K and PT-DS12K only. The PT-DZ10K has one SDI connector. ***12** Not featured on the PT-DZ10K.

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Specifications (Tentative)

Model	PT-**DZ13K**	PT-**DS12K**	PT-**DW11K**	PT-**DZ10K**
Power supply	120 V, 220–240 V AC, 50/60 Hz			
Power consumption	1,050 W (1,100 VA at 120/240 V) (0.3 W with STANDBY MODE set to ECO,*1 8 W with STANDBY MODE set to NORMAL. Both with fan stopped.)			
DLP™ chip Panel size / Display method / Pixels	24.4 mm (0.96 in) diagonal (16:10) 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) 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) DLP™ chip × 3, DLP™ projection system 1,049,088 (1,366 × 768) × 3, total of 3,147,264 pixels	24.4 mm (0.96 in) diagonal (16:10) DLP™ chip × 3, DLP™ projection system 2,304,000 (1,920 × 1,200) × 3, total of 6,912,000 pixels
Lens	Optional powered zoom/focus and fixed-focus lens			
Lamp	380 W UHM lamp × 2			355 W UHM lamp × 2
Screen size (diagonal)	1.78–25.4 m (70–1,000 in),*2 16:10 aspect ratio	1.78–25.4 m (70–1,000 in),*2 4:3 aspect ratio	1.78–25.4 m (70–1,000 in),*2 16:9 aspect ratio	1.78–25.4 m (70–1,000 in),*2 16:10 aspect ratio
Brightness*3	12,000 lm (dual-lamp)		11,000 lm (dual-lamp)	10,600 lm (dual-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*4	1,366 × 768 pixels*5	1,920 × 1,200 pixels
Scanning frequency SDI	SD-SDI*6/HD-SDI*7/3G-SDI*8/Dual-link HD-SDI*9		–	SD-SDI*6/HD-SDI*7/3G-SDI*8
Scanning frequency 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*10 (1,920 × 1,200), compatible with non-interlaced signals only, dot clock: 25–162 MHz fH: 15–100 kHz, fv: 24–120 Hz, dot clock: 20–162 MHz			
Scanning frequency RGB / YPBPR (YCBCR)	fH: 15.75 kHz, fv: 60 Hz [525i (480i)] fH: 31.50 kHz, fv: 60 Hz [525p (480p)] fH: 15.63 kHz, fv: 50 Hz [625i (576i)] fH: 31.25 kHz, fv: 50 Hz [625p (576p)] fH: 45.00 kHz, fv: 60 Hz [750 (720)/60p] fH: 37.50 kHz, fv: 50 Hz [750 (720)/50p] fH: 33.75 kHz, fv: 60 Hz [1035/60i] fH: 33.75 kHz, fv: 60 Hz [1125 (1080)/60i] fH: 28.13 kHz, fv: 50 Hz [1125 (1080)/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]			
Scanning frequency Video/YC	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 Vertical / Horizontal	±55 %*11 (powered) ±20 %*11 (powered)	±50 %*12 (powered) ±30 %*12 (powered)	±70%*13 (powered) ±30%*13 (powered)	±55 %*11 (powered) ±20 %*11 (powered)
Keystone correction range	V: ±40°*14, H: ±15°		V: ±40°*14	V: ±40°*14, H: ±15°
Keystone correction range (ET-UK20)	V: ±45°*15*17, H: ±40° *16*17		–	–
Installation	Ceiling/floor, front/rear, portrait*18			
Terminals SDI 1 IN / SDI 2 IN	BNC × 1 (3G/HD/SD-SDI) BNC × 1 (HD/SD-SDI)		–	[SDI IN] BNC × 1 (3G/HD/SD-SDI)
Terminals 3D SYNC IN/OUT / 3D SYNC OUT	BNC × 1 (3D timing signal) BNC × 1 (3D timing signal)			–
Terminals 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)	530 × 200*19 × 548.5 mm (20-7/8 × 7-7/8*19 × 21-19/32 in) (optional lens not included)			
Weight*20	Approximately 24 kg (52.9 lbs) (optional lens not included)			
Operating environment	Operating temperature: 0 °C–45 °C (32 °F–113 °F)*21, operating humidity: 20%–80% (no condensation)			
Applicable software	Logo Transfer Software, Multi Projector Monitoring & Control Software			
	Upgrade kit (ET-UK20)		–	
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-D75LE40
ET-D75LE8

Fixed-focus lens
ET-D75LE50

Ceiling mount bracket
ET-PKD310H
(for high ceilings)
ET-PKD310S
(for low ceilings)

Frame
ET-PFD310

Attachment for ceiling mount bracket
ET-PAD310

Replacement lamp unit
ET-LAD310A
ET-LAD310AW (twin pack)

Replacement lamp unit for portrait mode
ET-LAD320P
ET-LAD320PW (twin pack)

Replacement filter
ET-EMF320

Smoke cut filter
ET-SFD320

Upgrade kit (for PT-DZ13K/DS12K only)
ET-UK20
(Geometry Manager Pro included)

***1** When the stand by 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** 1.78–15.24 m (70–600 in) with the ET-D75LE8. 1.78–7.62 m (70–300 in) with the ET-D75LE5 ***3** Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. ***4** Input signals that exceed this resolution will be converted to 1,400 × 1,050 pixels. ***5** Input signals that exceed this resolution will be converted to 1,366 × 768 pixels. ***6** SMPTE ST 259 compliant, [YCBCR 4:2:2 10-bit] 480i, 576i. ***7** 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. ***8** 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. ***9** 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. ***10** WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). ***11** Vertical ±44 %, horizontal ±15 % with the ET-D75LE6. ***12** Vertical ±40 %, horizontal ±20 % with the ET-D75LE6. ***13** Vertical ±60 %, horizontal ±20 % with the ET-D75LE6. ***14** ±22° with the ET-D75LE50, ±28° with the ET-D75LE6. ***15** ±22° with the ET-D75LE50, ±28° with the ET-D75LE6, and ±40° with the ET-D75LE10 and ET-D75LE20. ***16** ±15° with the ET-D75LE50 and ET-D75LE6. ***17** Up to a total of ±55° during simultaneous horizontal and vertical correction. ***18** Requires optional lamp units for portrait mode. ***19** With legs at shortest position. ***20** Average value. May differ depending on the actual unit. ***21** 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).

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Projector Global Web Site – **panasonic.net/avc/projector**
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All information included here is valid as of January 2013.

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