Panasonic
ideas for life

PRELIMINARY
As of January 2013

PT-DZ870 Series

1-Chip DLP™ Projectors

Available from June 2013

Stunning Colors and Highly Flexible Projection

PT-**DZ870**	PT-**DW830**	PT-**DX100**
8,500 lm	8,500 lm	10,000 lm
WUXGA (1920 × 1200)	WXGA (1280 × 800)	XGA (1024 × 768)

NOTE: Models without lenses (PT-DZ870L/DW830L/DX100L) are also available. The specifications are the same as those of the PT-DZ870/DW830/DX100 respectively. All models are offered in a black (PT-DZ870K/DZ870LK/DW830K/DW830LK/DX100K/DX100LK) or white (PT-DZ870W/DZ870LW/DW830W/DW830LW/DX100W/DX100LW) cabinet.

Vivid Picture Quality with High Brightness

- Unique lamp drive systems have helped to make the body compact, while providing a high 8,500 lm*[1] of brightness.
- Full-HD-ready WUXGA resolution.*[2]
- The dynamic iris achieves a high contrast ratio of 10,000:1.
- Panasonic's proprietary Dynamic RGB Booster achieves high image quality with excellent color reproduction and brightness.
- Active 3D projection capability.
- Detail Clarity Processor 3 brings depth and clarity to details.
- Waveform Monitor for easy and precise calibration.
- System Daylight View 2 enhances color perception with no need to turn off the lights.
- The DICOM Simulation mode.*[3]
- Rec. 709 mode for HDTV projection.
- Full 10-bit signal processing.
- Advanced technologies for excellent image quality: 3D color management system, HD IP conversion, digital noise reduction, dynamic sharpness control.

Easy Maintenance and Superior Reliability

- A dust-resistant optical block keeps images crisp and vivid by preventing dust entry.
- A new cooling mechanism with a heat dissipating block utilizing a heat pipe.
- Panasonic's unique Dual Lamp System eliminates a sudden interruption if a lamp should fail (in dual-lamp operation mode).
- The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection.
- New lamp and new drive system improve reliability and achieve long life.
- Lamp replacement cycle of up to 3,000 hours.*[5]
- Easy lamp replacement from the rear.
- Optional Smoke-Resistant Filter ET-SFD120 available.

System Integration Flexibility

- DIGITAL LINK allows HDMI, uncompressed HD videos, audio, and control signals through a single Cat5e/6 LAN cable.
- Compatible with optional ET-YFB100G or other switchers.*[6]
- The Geometric Adjustment function.*[7]
- Optional "Geometry Manager Pro Ver. 1.1" for more flexible geometric adjustment and modified masking functions.*[7]
- The Multi-Screen Support System: Edge blending, color matching and multi-screen processor.
- Flexible vertical 360 degree installation, lens-centered design, horizontal/vertical-lens shift and a wide range of optional lenses.
- Portrait mode projection available later on.*[8]
- Mechanical shutter with fade in/out effect.
- The Multi-Unit Brightness Control function.
- Abundant terminals, including SDI (3G support)*[7], DVI-D, HDMI and 3D timing signal in/out.

⋆1 10,000 lm for the PT-DX100. **⋆2** For the PT-DZ870 only. **⋆3** This product is not a medical instrument. Do not use it for actual medical diagnosis. **⋆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). Also, if the ambient temperature exceeds 40 °C (104 °F) (35 °C (95 °F) in HIGH ALTITUDE MODE) when the projector is being used with LAMP SELECT set to DUAL and LAMP POWER set to NORMAL, the light output may be reduced approximately 20% to protect the projector. **⋆5** With the LAMP POWER set to NORMAL mode. The usage environment affects the lamp replacement cycle. **⋆6** Crestron's DigitalMedia 8G+™, Extron's XTP Systems and AMX's Enova DVX. **⋆7** For the PT-DZ870 only. **⋆8** Optional lamp units for portrait projection required.

Specifications (Tentative)

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Model	PT-**DZ870**/**DZ870**L	PT-**DW830**/**DW830**L	PT-**DX100**/**DX100**L
Power supply	120 V–240 V AC, 12 A, 50/60 Hz		
Power consumption	1,130 W (1,180 VA at 120 V)	1,110 W (1,160 VA at 120 V)	
	(0.3 W with STANDBY MODE set to ECO,*8 4 W with STANDBY MODE set to NORMAL. Both with fan stopped.)		
DLP™ chip Panel size Display method Pixels	17.0 mm (0.67 in) diagonal (16:10) DLP™ chip × 1, DLP™ projection system 2,304,000 (1,920 × 1,200) pixels	16.5 mm (0.65 in) diagonal (16:10) DLP™ chip × 1, DLP™ projection system 1,024,000 (1,280 × 800) pixels	17.8 mm (0.7 in) diagonal (4:3) DLP™ chip × 1, DLP™ projection system 786,432 (1,024 × 768) pixels
Lens PT-DZ870/DW830/DX100	Powered zoom (1.7–2.4:1), powered focus F 1.7–1.9, f 25.6 – 35.7 mm	Powered zoom (1.8–2.5:1), powered focus F 1.7–1.9, f 25.6 – 35.7 mm	
PT-DZ870L/DW830L/DX100L	Optional powered zoom/focus lenses and fixed-focus lens		
Lamp	420 W UHM lamp × 2		
Screen size (diagonal)	1.27–15.24 m (50–600 in)*9 (16:10)	1.27–15.24 m (50–600 in)*9 (16:10)	1.27–15.24 m (50–600 in)*9 (4:3)
Brightness*10	8,500 lm (dual-lamp, LAMP MODE: NORMAL)		10,000 lm (dual-lamp, LAMP MODE: NORMAL)
Center-to-corner uniformity*10	90 %		
Contrast*10	10,000:1 (full on/off, with DYNAMIC IRIS set to ON)		
Resolution	1,920 × 1,200 pixels	1,280 × 800 pixels*11	1,024 × 768 pixels*12
Scanning frequency SDI	SD-SDI*13/HD-SDI*14/3G-SDI*15	–	
HDMI/DVI-D/DIGITAL LINK	480i*16, 576i*16, 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*17 (1,920 × 1,200), compatible with non-interlaced signals only, dot clock: 25–162 MHz		
RGB YPBPR (YCBCR)	fH: 15–100 kHz, fV: 24–120 Hz, dot clock: 20–162 MHz 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]
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	V: +50 %, H: ±10 % (powered)	V: +60 %, H: ±10 % (powered)	V: +50%,*18 H: ±10% (powered)
Keystone correction range	V: ±40° (±30° with the ET-DLE055/DLE085)		
Installation	Ceiling/floor, front/rear, portrait*19		
Terminals SDI IN	BNC × 1 (3G/HD/SD-SDI)	–	
DVI-D IN	DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)		
HDMI IN	HDMI 19-pin × 1 (Deep Color, compatible with HDCP)		
RGB 1 IN	BNC × 5 (RGB/YPBPR/YCBCR/YC × 1)		
RGB 2 IN	D-Sub HD 15-pin (female) × 1 (RGB/YPBPR/YCBCR × 1)		
VIDEO IN	BNC × 1 (composite video)		
3D SYNC IN/OUT	BNC × 1 (3D timing signal)		
3D SYNC OUT	BNC × 1 (3D timing signal)		
SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)		
SERIAL OUT	D-sub 9-pin (male) × 1 for link control		
REMOTE 1 IN	M3 × 1 for wired remote control		
REMOTE 1 OUT	M3 × 1 for link control (for wired remote control)		
REMOTE 2 IN	D-sub 9-pin (female) × 1 for external control (parallel)		
LAN / DIGITAL LINK	RJ-45 × 1 (for network and DIGITAL LINK (video/audio/network/serial control) connection, 100Base-TX, compatible with PJLink™)		
Cabinet materials	Molded plastic		
Dimensions (W × H × D)	PT-DZ870/DW830/DX100: 498 × 200*20 × 556 mm (19-19/32 × 7-7/8*20 × 21-7/8 in) (with supplied lens) PT-DZ870L/DW830L/DX100L: 498 × 200*20 × 513 mm (19-19/32 × 7-7/8*20 × 20-3/16 in) (without lens)		
Weight*21	PT-DZ870/DW830/DX100: Approx. 20.0 kg (44.1 lbs) (with supplied lens); PT-DZ870L/DW830L/DX100L: approx. 19.2 kg (42.3 lbs) (without lens)		
Operating environment	Operating temperature: 0 °C–45 °C (32 °F–113 °F)*22, 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), software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software) (× 1)		

Optional accessories

Zoom lens
ET-DLE085
ET-DLE150
ET-DLE250
ET-DLE350
ET-DLE450

Fixed-focus lens
ET-DLE055

Upgrade kit
ET-UK20
(Geometry Manager Pro included)

Ceiling mount bracket
ET-PKD120H (for high ceilings)
ET-PKD120S (for low ceilings)

Attachment for ceiling mount bracket
ET-PAD120

Replacement lamp unit
ET-LAD120
ET-LAD120W (Twin Pack)

Replacement lamp unit for portrait mode
ET-LAD120P
ET-LAD120PW (Twin Pack)

Smoke-resistant filter
ET-SFD120

***8** 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. ***9** 1.27–5.08 m (50–200 in) with the ET-DLE055. ***10** Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. ***11** Input signals that exceed this resolution will be converted to 1,280 × 800 pixels. ***12** Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.
a***13** SMPTE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i, 576i. ***14** 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. ***15** 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. ***16** Supports signals with a 27 MHz dot clock (pixel repetition) only. ***17** WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking). ***18** +45% from center of screen with the E T-DLE085. ***19** Requires optional lamp units for portrait mode. ***20** With legs at shortest position. ***21** Average value. May differ depending on the actual unit. ***22** 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 sealevel). Also, if the ambient temperature exceeds 40 °C (104 °F) (35 °C (95 °F) in high altitude mode) when the projector is being used with lamp select set to dual and lamp power set to normal, the light output may be reduced approximately 20 % to protect the projector.

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For more information about Panasonic projectors, please visit:
Projector Global Web Site – **panasonic.net/avc/projector**
Facebook – **www.facebook.com/panasonicprojector**
YouTube – **www.youtube.com/user/PanasonicProjector**

All information included here is valid as of January 2013.

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