



**1DLP - 8500 lumens - WUXGA - 2Lamps -  
Exchangeable lens - Dynamic RGB Booster -  
Geometric Adjustment, Digital Link**

## **PT-DZ870**

10000 lumens-class fixed installation projector Delivering stunning colours and highly flexible projection for museums, exhibitions and digital signage applications

### **Key Features**

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1-Chip DLP, 8500 lumens, WUXGA

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Excellent image quality thanks to the dynamic RGB Booster and Vivid Colour Control

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Dual lamp system with lamp relay mode enables 24/7 operation

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Eco filter enables up to 12000 hours of air filter replacement cycle

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10,000:1 contrast ratio

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PT-DZ870

<https://eu.connect.panasonic.com/d/en/products/projectors/pt-dz870>

<b>Power Supply</b>	120-240 V AC, 10-5.2 A, 50/60 Hz
<b>Power Consumption (120-240V AC, 50/60Hz)</b>	1,030 W (1,060 VA) (0.3 W with STANDBY MODE set to ECO, 3 W with STANDBY MODE set to NORMAL)
<b>DLP™ Chip Panel Size</b>	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)
<b>DLP™ Chip Display Method</b>	DLP™ chip x 1, DLP™ system
<b>DLP™ Chip Pixels</b>	2,304,000 (1,920 x 1,200) x 1, total of 2,304,000 pixels
<b>Lens PT-DZ870K/DZ870W</b>	Powered zoom/focus lenses (1.7-2.4:1), F 1.7-1.9, f 25.6-35.7 mm
<b>Lens PT-DZ870LK/DZ870LW</b>	Optional powered zoom/focus lenses and fixed-focus lens
<b>Lamp</b>	420 W UHM lamps (x 2)
<b>Screen Size</b>	1.27 - 15.24 m (50-600 inches) (1.27-5.08 m (50-200 inches) with the ET-DLE055 (16:10 aspect ratio)) (2.54-8.89 m (100-350 inches) with the ET-DLE030 (16:10 aspect ratio))
<b>Brightness</b>	8,500 lumens (dual lamp, LAMP MODE: NORMAL)
<b>Center-to-Corner Uniformity</b>	90%
<b>Contrast</b>	10,000:1 (full on/full off, in dynamic iris 3 mode)
<b>Resolution</b>	1,920 x 1,200 pixels
<b>Scanning Frequency (SDI)</b>	3G-SDI signal (RGB 4:4:4 12-bit/10-bit): SMPTE ST 424 compliant: 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p; 3G-SDI signal (YPBPR 4:2:2 10-bit): SMPTE ST 424 compliant: 1125(1080)/60p, 1125(1080)/50p; HD-SDI signal (YPBPR 4:2:2 10-bit): SMPTE ST 292 compliant: 750(720)/60p, 50(720)/50p, 1125(1035)/60i, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p; SD-SDI signal (YCBCR 4:2:2 10-bit): SMPTE ST 259 compliant: 525i(480i), 625i(576i)
<b>Scanning Frequency (HDMI/DVI-D)</b>	fH: 15-100 kHz, fV: 24-120 Hz, dot clock: 25-162 MHz
<b>Scanning Frequency (RGB)</b>	fH: 15-100 kHz, fV: 24-120 Hz, dot clock: 162 MHz or lower
<b>Scanning Frequency YPBPR (YCBCR)</b>	525i(480i): fH 15.75 kHz; fV 60 Hz, 625i(576i): fH 15.63 kHz; fV 50 Hz, 525p (480p): fH 31.50 kHz; fV 60 Hz, 625p(576p): fH 31.25 kHz; fV 50 Hz, 750 (720)/60p: fH 45.00 kHz; fV 60 Hz, 750(720)/50p: fH 37.50 kHz; fV 50 Hz, 1125(1035)/60i: fH 33.75 kHz; fV 60 Hz, 1125(1080)/60i: fH 33.75 kHz; fV 60 Hz, 1125(1080)/50i: fH 28.13 kHz; fV 50 Hz, 1125(1080)/25p: fH 28.13 kHz; fV 25 Hz, 1125(1080)/24p: fH 27.00 kHz; fV 24 Hz, 1125(1080)/24sF: fH 27.00 kHz; fV 48 Hz, 1125(1080)/30p: fH 33.75 kHz; fV 30 Hz, 1125(1080)/60p: fH 67.50 kHz; fV 60 Hz, 1125(1080)/50p: fH 56.25 kHz; fV 50 Hz
<b>Scanning Frequency (Video/Svideo)</b>	fH: 15.75 kHz, fV: 60 Hz [NTSC/NTSC4.43/PALM/PAL60]; fH: 15.63 kHz, fV: 50 Hz [PAL/PALN/SECAM]
<b>Optical Axis Shift</b>	Vertical: +50% (powered), horizontal: ±10% (powered); NOTE: Optical If using the ET-DLE030, the optical axis is fixed. axis shift function cannot be operated when used with the ET-DLE055.
<b>Keystone Correction Range</b>	Vertical ±40°(vertical ±30° with the ET-DLE055/DLE085/DLE105, vertical +5° with the ET-DLE030); When using only the KEYSTONE correction of the Geometric Adjustment function: Vertical ±40°, horizontal ±15°(vertical ±30° and horizontal ±15° with the ET-DLE055/DLE085/DLE105); When using the optional upgrade kit ET-UK20: Vertical ±45° and horizontal ±40°(vertical ±22° and horizontal ±15° with the ET-DLE055/DLE085/DLE105, vertical +5° with the ET-DLE030); When using both the KEYSTONE and CURVED corrections of the Geometric Adjustment function: Vertical ±20°, horizontal ±15°(vertical ±8° and horizontal ±8° with the ET-DLE055/DLE085/DLE105)
<b>Installation</b>	Ceiling/floor, front/rear
<b>Terminals SDI In</b>	BNC x 1, 3G-SDI signal: SMPTE ST 424 compliant; HD-SDI signal: SMPTE ST 292 compliant; SD-SDI signal: SMPTE ST 259 compliant
<b>Terminals HDMI In</b>	HDMI 19-pin x 1, Deep Color, compatible with HDCP, 525i(480i), 625i(576i), 525p(480p), 625p(576p), 750(720)/60p, 750(720)/50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p; VGA(640 x 480) - WUXGA(1,920 x 1,200), dot clock: 25 MHz-162 MHz; NOTE: Compatible with non-interlaced signals only
<b>Terminals DVI-D In</b>	DVI-D 24-pin x 1, DVI 1.0 compliant, HDCP compatible, for single link only; 525i(480i), 625i(576i), 525p(480p), 625p(576p), 750(720)/60p, 750(720)/50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p; VGA(640 x 480) - WUXGA(1,920 x 1,200), dot clock: 25 MHz - 162 MHz; NOTE: Compatible with non-interlaced signals only.
<b>Terminals RGB 1 In</b>	BNC x 5
<b>Terminals RGB 1 In R, G, B</b>	R: 0.7 Vp-p, 75 ohms; G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms; B: 0.7 Vp-p, 75 ohms; HD, VD/SYNC: TTL, high impedance, positive/negative automatic; NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.
<b>Terminals RGB 1 In Y, PB, PR (Y, CB, CR)</b>	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms
<b>Terminals RGB 1 In S-Video Signal</b>	Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms
<b>Terminals RGB 2 In</b>	D-sub HD 15-pin (female) x 1
<b>Terminals RGB 2 In R, G, B</b>	R: 0.7 Vp-p, 75 ohms; G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms; B: 0.7 Vp-p, 75 ohms; HD, VD/SYNC: TTL, high impedance, positive/negative automatic; NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals
<b>Terminals RGB 2 In Y, PB, PR (Y, CB, CR)</b>	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms
<b>Terminals 3D Sync 1 In/Out</b>	BNC x 1, 1.0 Vp-p, 75 ohms; Input: TTL, high impedance. Output: TTL, max. 10 mA

<b>Terminals 3D Sync 2 Out</b>	BNC x 1, 1.0 Vp-p, 75 ohms, TTL, max. 10 mA
<b>Terminals Video In</b>	BNC x 1, 1.0 Vp-p, 75 ohms
<b>Terminals Serial In</b>	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
<b>Terminals Serial Out</b>	D-sub 9-pin (male) x 1 for link control (RS-232C compliant)
<b>Terminals Remoter 1 In</b>	M3 jack x 1 for wired remote control
<b>Terminals Remoter 1 Out</b>	M3 jack x 1 for link control
<b>Terminals Remoter 2 In</b>	D-sub 9-pin (female) x 1 for external control (parallel)
<b>Terminals LAN/DIGITAL LINK</b>	RJ-45 x 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compatible with Art-Net, compliant with PJLink™ (class 1), Deep Color, compatible with HDCP, 525i(480i), 625i(576i), 525p(480p), 625p(576p), 750(720)/60p, 750(720)/50p, 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, 1125(1080)/24p, 1125(1080)/24sF, 1125(1080)/30p, 1125(1080)/60p, 1125(1080)/50p, VGA(640 x 480) - WUXGA(1,920 x 1,200), dot clock: 25 MHz - 162 MHz; NOTE: Compatible with non-interlaced signals only.
<b>Power Cord Length</b>	3.0 m (9 ft 10 in)
<b>Cabinet Materials</b>	Molded plastic
<b>Dimensions (W x H x D) PT-DZ870K/DZ870W</b>	498 x 200 x 556 mm (19-19/32 x 7-7/8 x 21-7/8 inches) (with supplied lens)
<b>Dimensions (W x H x D) PT-DZ870LK/DZ870LW</b>	498 x 200 x 513 mm (19-19/32 x 7-7/8 x 20-3/16 inches) (without lens)
<b>Weight PT-DZ870K/DZ870W</b>	Approx. 18.3 kg (40.3 lbs) (with supplied lens)
<b>Weight PT-DZ870LK/DZ870LW</b>	Approx. 17.6 kg (38.8 lbs) (without lens)
<b>Operation Noise</b>	40 dB (dual lamp operation, LAMP MODE: NORMAL), 35 dB (dual lamp operation, LAMP MODE: ECO)
<b>Operating Temperature</b>	0 °C - 45 °C (32°F - 113 °F)
<b>Operating Humidity</b>	10% - 80% (no condensation)
<b>Technology</b>	1-Chip DLP

**Note**

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice.

\*1 When the STANDBY MODE is set to ECO, network functions such as power on over the LAN network will not operate, and the serial output terminal cannot be used. Also, only certain commands can be received for external control using the serial terminal.

\*2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

\*3 Up to a total of ±55° during simultaneous horizontal and vertical correction.

\*4 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal)

\*5 WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

\*6 With legs at shortest position.

\*7 Average value. May differ depending on models.

\*8 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). 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 High, the light output may be reduced approximately 20% to protect the projector.

\*9 Operation range differs depending on environments.