



**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

1-Chip DLP, 8500 lumens, WUXGA

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

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

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

10,000:1 contrast ratio





PT-DZ870

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

Power Supply	120-240 V AC, 10-5.2 A, 50/60 Hz
Power Consumption (120-240V AC, 50/60Hz)	1,030 W (1,060 VA) (0.3 W with STANDBY MODE set to ECO, 3 W with STANDBY MODE set to NORMAL)
DLP™ Chip Panel Size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)
DLP™ Chip Display Method	DLP™ chip x 1, DLP™ system
DLP™ Chip Pixels	2,304,000 (1,920 x 1,200) x 1, total of 2,304,000 pixels
Lens PT-DZ870K/DZ870W	Powered zoom/focus lenses (1.7-2.4:1), F 1.7-1.9, f 25.6-35.7 mm
Lens PT-DZ870LK/DZ870LW	Optional powered zoom/focus lenses and fixed-focus lens
Lamp	420 W UHM lamps (x 2)
Screen Size	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))
Brightness	8,500 lumens (dual lamp, LAMP MODE: NORMAL)
Center-to-Corner Uniformity	90%
Contrast	10,000:1 (full on/full off, in dynamic iris 3 mode)
Resolution	1,920 x 1,200 pixels
Scanning Frequency (SDI)	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)
Scanning Frequency (HDMI/DVI-D)	fH: 15-100 kHz, fV: 24-120 Hz, dot clock: 25-162 MHz
Scanning Frequency (RGB)	fH: 15-100 kHz, fV: 24-120 Hz, dot clock: 162 MHz or lower
Scanning Frequency YPBPR (YCBCR)	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
Scanning Frequency (Video/Svideo)	fH: 15.75 kHz, fV: 60 Hz [NTSC/NTSC4.43/PALM/PAL60]; fH: 15.63 kHz, fV: 50 Hz [PAL/PALN/SECAM]
Optical Axis Shift	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.
Keystone Correction Range	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)
Installation	Ceiling/floor, front/rear
Terminals SDI In	BNC x 1, 3G-SDI signal: SMPTE ST 424 compliant; HD-SDI signal: SMPTE ST 292 compliant; SD-SDI signal: SMPTE ST 259 compliant
Terminals HDMI In	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
Terminals DVI-D In	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.
Terminals RGB 1 In	BNC x 5
Terminals RGB 1 In R, G, 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.
Terminals RGB 1 In Y, PB, PR (Y, CB, CR)	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms
Terminals RGB 1 In S-Video Signal	Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms
Terminals RGB 2 In	D-sub HD 15-pin (female) x 1
Terminals RGB 2 In R, G, 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
Terminals RGB 2 In Y, PB, PR (Y, CB, CR)	Y: 1.0 Vp-p (including sync signal), PB/PR (CB/CR): 0.7 Vp-p, 75 ohms
Terminals 3D Sync 1 In/Out	BNC x 1, 1.0 Vp-p, 75 ohms; Input: TTL, high impedance. Output: TTL, max. 10 mA

Terminals 3D Sync 2 Out	BNC x 1, 1.0 Vp-p, 75 ohms, TTL, max. 10 mA
Terminals Video In	BNC x 1, 1.0 Vp-p, 75 ohms
Terminals Serial In	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
Terminals Serial Out	D-sub 9-pin (male) x 1 for link control (RS-232C compliant)
Terminals Remoter 1 In	M3 jack x 1 for wired remote control
Terminals Remoter 1 Out	M3 jack x 1 for link control
Terminals Remoter 2 In	D-sub 9-pin (female) x 1 for external control (parallel)
Terminals LAN/DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK (video/network/serial control) connection, 100Base-TX, compatible with Art-Net, compliant with PLink™ (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.
Power Cord Length	3.0 m (9 ft 10 in)
Cabinet Materials	Molded plastic
Dimensions (W x H x D) PT-DZ870K/DZ870W	498 x 200 x 556 mm (19-19/32 x 7-7/8 x 21-7/8 inches) (with supplied lens)
Dimensions (W x H x D) PT-DZ870LK/DZ870LW	498 x 200 x 513 mm (19-19/32 x 7-7/8 x 20-3/16 inches) (without lens)
Weight PT-DZ870K/DZ870W	Approx. 18.3 kg (40.3 lbs) (with supplied lens)
Weight PT-DZ870LK/DZ870LW	Approx. 17.6 kg (38.8 lbs) (without lens)
Operation Noise	40 dB (dual lamp operation, LAMP MODE: NORMAL), 35 dB (dual lamp operation, LAMP MODE: ECO)
Operating Temperature	0 °C - 45 °C (32°F - 113 °F)
Operating Humidity	10% - 80% (no condensation)
Technology	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.