



PT-CMZ50

Laser Projector Delivers Big Pictures from Ultra-Short Distances with Minimal Shadowing, Easy Installation, and Convenient Adjustment

Key Features

Project Large Images in Rooms with Limited Space

Simplified Installation, Setup, and Adjustment

Stress-free Daily Operation





PT-CMZ50

<https://eu.connect.panasonic.com/n/en/products/projectors/pt-cmz50>

Terminals Audio In	M3 stereo mini-jack x 1
Terminals Computer In	D-sub 15-pin (female) x 1 (RGB/YBPBR/YCBCR)
Terminals USB(VIEWER/WIRELESS/DC OUT)	USB connector (Type A) x 1 for Memory Viewer function, optional AJ-WM50 Series Wireless Module, power supply (DC 5 V, maximum 2 A)
Lens	Fixed zoom, powered focus lens, F = 1.7, f = 2.81 mm, throw ratio: 0.235:1 (16:10 aspect ratio) (Projection distance: 1 cm [1/3 in] for 80-inch image)
Power consumption*8 On-mode power consumption (Light Power) [Normal]	290 W (AC 100–120V), 280 W (AC 200–240 V)
Resolution	WUXGA (1920 x 1200 pixels)
Keystone Correction Range	Vertical: ±3 °, Horizontal: ±3 °
Power consumption*8 On-mode power consumption (Light Power) [Eco]	215 W (AC 100–120V), 205 W (AC 200–240 V)
Power consumption*8 On-mode power consumption (Light Power) [Quiet]	210 W (AC 100–120V), 200 W (AC 200–240 V)
Terminals HDMI™ IN 1/IN 2	HDMI™ 19-pin x 2 (Compatible with HDCP 1.4, Deep Color, 4K/30p6 signal input), CEC supported*7
Installation	Ceiling/floor, front/rear, free 360-degree installation
Protocol versions	IPv4
Screen Size (Diagonal)	2.03–3.05 m (80–120 in) (16:10 aspect ratio)
Terminals HDMI™ OUT	HDMI™ 19-pin x 1 (Compatible with HDCP 1.4, Deep Color, 4K/30p6 signal output)
Contrast Ratio*1	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1].)
Dimensions (W x H x D)	495 mm x 160 mm x 421 mm (19 1/2" x 6 19/64" x 16 37/64") (excluding feet and protrusions), 495 mm x 176 mm x 421 mm (19 1/2" x 6 15/16" x 16 37/64") (with feet at shortest position)
Light Source	Laser diodes
Built-in Speaker	10 W monaural
LCD Panel Panel Size	16.3 mm (0.64 in) diagonal (16:10 aspect ratio)
Operating Environment	Operating temperature: 0–45 °C (32–113 °F)*11, Operating humidity: 20–80 % (no condensation)
LCD Panel Pixels	2,304,000 (1920 x 1200) pixels
Cabinet Materials	Molded plastic
Projector type	LCD projector
Applicable Software	Multi Monitoring & Control Software, Logo Transfer Software, Projector Network Setup Software, Presenter Light Software for Windows®*12, Wireless Projector App for iOS/Android™*13

Center-to-corner zone ratio*1 85 %

Note

*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. *2 When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], and [SYSTEM DAYLIGHT VIEW] is set to [OFF]. *3 Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [2], temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of particulate matter). Estimated time until light output declines to 50 % varies depending on environment. *4 Resolution decreases when using Digital Zoom Extender. Some screen-correction functions are not available when using this function, and range of corner adjustment is limited. *5 When Digital Zoom Extender is set to 80 %. *6 Supports signals up to 4K/30p. A signal with different resolution is converted to the number of display dots (1920 x 1200 dots). *7 Depending on the connected CEC command-compatible device, the link control may not operate normally. *8 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). *9 Filter cleaning cycle varies depending on environment. Filter can be washed and reused up to two times. Filter cleaning cycle: 20,000 hours (under dust conditions of 0.08 mg/m³), 10,000 hours (under dust conditions of 0.15 mg/m³). *10 Average value. May differ depending on the actual unit. *11 Light output is limited at operating temperatures higher than 30 °C (86 °F), and projectors cannot be operated at altitudes higher than 2,700 m (8,858 ft) above sea level. When optional AJ-WM50 Series wireless module is attached, operating temperature range becomes 0–40 °C (32–104 °F). *12 When using Presenter Light Software, images are projected with 1280 x 800 dots or 1024 x 768 dots onto the screen. Also, your PC display resolution may be forcibly changed, and audio playback disrupted or become noisy, while images and sound are being transmitted. *13 When using the Wireless Projector app, display resolution differs depending on your iOS/Android™ device and the display device. The maximum supported display resolution is WXGA (1280 x 800).

Time until light output declines to 50 %*3	20,000 hours (NORMAL/QUIET)/24,000 hours (ECO)
Light Output*1 *2	5,200 lm
Operation noise*1	35 dB (NORMAL/ECO), 26 dB (QUIET)
Filter*9	Included (Estimated maintenance time: approx. 20,000 hours)
Digital Zoom Extender *4	Throw ratio 0.235–0.288:15 (16:10 aspect ratio) (Corresponding value)
Weight with supplied lens*10	Approx. 9.5 kg (20.9 lbs)
Power Supply	AC 100 V–240 V, 50/60 Hz
Control function via LAN	PJLink™ [Class 2], Crestron Connected™, AMX Device Discovery
Terminals Variable Audio Out	M3 stereo mini-jack x 1
Power consumption*8 Maximum power consumption	325 W (3.4–1.4 A) (330 VA) (Power consumption is 310 W at AC 200–240 V)
Terminals Serial In	D-sub 9-pin (female) x 1 for computer control (RS-232C compliant)
Terminals LAN	RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PJLink™ [Class 2]
Terminals LAN/DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBase™ compliant), 100Base-TX (Compatible with PJLink™ [Class 2], HDCP, Deep Color, 4K/30p6 signal input)