

LCD Projector

PT-CMZ50

Note: Product availability varies by country or region.

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



White Models

Black Models

■ Main Features

01 | Project Large Images in Rooms with Limited Space

Project 80–120-inch images at distances from about 1 cm (1/3 in.).¹ The ultra-short-throw design avoids shadows and provides a large display area in rooms with limited space. CMZ50 also supports 2560 x 1080 (21:9) and 3240 x 1080 (27:9) input signals² and has an HDMI™ OUT terminal to connect a second projector and display widescreen content at its native resolution.

02 | Simplified Installation, Setup, and Adjustment

Installation is straightforward, and adjustment is available via remote control thanks to powered center and periphery focus functions and Digital Zoom Extender and Digital Image Shift³. Optional wall-mount ships partially preassembled. It's ideal for rooms with limited ceiling space. A compact, stylish body and quiet 25 dB⁴ operation blend CMZ50 into your space.

03 | Stress-free Daily Operation

Start work instantly: images appear about one second⁵ after powering on, and CEC command-compatible⁶ HDMI™ enables control with a single remote. CMZ50 works with wireless apps⁷ and Wireless Presentation System PressIT⁸. Light-source and filter don't need maintenance for 20,000 hours⁹, and the projector is energy-efficient to reduce operating costs.

	PT-CMZ50
Light Output	5,200 lm ¹⁰ / 5,200 lm (ANSI) ¹¹
Resolution	WUXGA (1920 x 1200 pixels)



¹ For an 80-inch image. Value is the distance from the projector body to the wall. ² A 2560 x 1080 (21:9) input signal is displayed at 1920 x 810 (21:9), and a 3240 x 1080 (27:9) input signal at 1920 x 640 (27:9). ³ Resolution decreases when using Digital Zoom Extender and Digital Image Shift. Some screen correction functions are not available when using this function, and the range of corner adjustment is limited. Digital Image Shift can be used after the Digital Zoom Extender is set. ⁴ In QUIET Mode. 34 dB in NORMAL/ECO Mode. ⁵ When [ECO MANAGEMENT] > [QUICK STARTUP] is set to [ON], [QUICK STARTUP] is unavailable after the [AVAILABLE PERIOD] setting has expired. When [QUICK STARTUP] is set to [ON], the projector continues to warm up, increasing power consumption, and the standby period when [QUICK STARTUP] is valid is included in the projector runtime. [QUICK STARTUP] cannot be set when [STANDBY MODE] is set to [ECO]. Time varies depending on connection terminals, signals, and other conditions. ⁶ Depending on the connected CEC command-compatible device, the link control may not operate normally. ⁷ Wireless Projector app available at the App Store or the Google Play store. Please check the compatibility of your device before installation. ⁸ Wireless Presentation System PressIT is sold separately. Availability may vary by country or region. ⁹ 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). The estimated time until light output declines to 50% varies depending on the 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 When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], and [SYSTEM DAYLIGHT VIEW] is set to [OFF]. Measurement, measuring conditions, and method of notation are all compliant with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. ¹¹ When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], and [SYSTEM DAYLIGHT VIEW] is set to [OFF]. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. ¹² Supports signals up to 4K/30p. A signal with different resolution is converted to the number of display dots (1920 x 1200 dots). ¹³ Requires AI-WM50 Series Wireless Module (sold separately). Availability may vary by country or region.

Large Images with Minimal Shadows

Installing almost flush to the wall, this integrated ultra-short-throw design delivers big pictures up to 120 inches anywhere installation space is limited. It avoids screen shadows so your audience always gets a clear view. With 5,200 lm¹ brightness, 3,000,000:1² Dynamic Contrast, original Detail Clarity Processor 4 technology, and WUXGA resolution, images are bright, sharp, and clear even in well-lit rooms.

Effortlessly Projects Widescreen Content

Project widescreen video-conferencing software layouts at an immersive scale and revitalize communication between on-site and remote participants. CMZ50 supports 2560 x 1080 (21:9) or 3240 x 1080 (27:9) input signals³, and a second CMZ50 can be connected via HDMI[™] output to display widescreen content at native resolution. Quiet 25 dB⁴ operation and unobtrusive design limit distractions, essential for hybrid spaces.

¹ When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], and [SYSTEM DAYLIGHT VIEW] is set to [OFF]. Measurement, measuring conditions, and method of notation are all compliant with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. ² Full On/Full Off, when [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1]. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. ³ A 2560 x 1080 (21:9) input signal is displayed at 1920 x 810 (21:9), and a 3240 x 1080 (27:9) input signal at 1920 x 640 (27:9). ⁴ In QUIET Mode. 34 dB in NORMAL/ECO Mode. ⁵ Resolution decreases when using Digital Zoom Extender and Digital Image Shift. Some screen correction functions are not available when using this function, and the range of corner adjustment is limited. Digital Image Shift can be used after the Digital Zoom Extender is set. ⁶ When [ECO MANAGEMENT] > [QUICK STARTUP] is set to [ON], [QUICK STARTUP] is unavailable after the [AVAILABLE PERIOD] setting has expired. When [QUICK STARTUP] is set to [ON], the projector continues to warm up, increasing power consumption, and the standby period when [QUICK STARTUP] is valid is included in the projector runtime. [QUICK STARTUP] cannot be set when [STANDBY MODE] is set to [ECO]. May vary depending on connection terminals, signals, and other conditions. ⁷ Depending on the connected CEC command-compatible device, the link control may not operate normally. ⁸ Value is approximate. Based on a comparison between PT-CMZ50 (max. power consumption 325 W, brightness 5,200 lm) and PT-TW381R (max. power consumption 300 W, brightness 3,300 lm).

Specifications

Model		PT-CMZ50
Projector type		LCD projector
LCD panel	Size	16.3 mm (0.64 in) diagonal (16:10 aspect ratio)
	Pixels	2,304,000 (1920 x 1200) pixels
Light source		Laser diodes
Light output ¹		5,200 lm ² / 5,200 lm (ANSI) ³
Time until light output declines to 50 % ⁴		20,000 hours (NORMAL/QUIET)/24,000 hours (ECO)
Resolution		WUXGA (1920 x 1200 pixels)
Contrast ratio ⁵		3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1].)
Screen size (diagonal)		2.03–3.05 m (80–120 in) (16:10 aspect ratio)
Center-to-corner zone ratio ⁶		85 %
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)
Digital Zoom Extender ⁵		Throw ratio 0.235–0.288:1 ⁶ (16:10 aspect ratio) (Corresponding value)
Keystone correction range		Vertical: ±3°, Horizontal: ±3°
Terminals	HDMI [™] IN 1/IN 2	HDMI [™] 19-pin x 2 (Compatible with HDCP 1.4, Deep Color, 4K/30p ⁷ signal input), CEC supported ⁸
	HDMI [™] OUT	HDMI [™] 19-pin x 1 (Compatible with HDCP 1.4, Deep Color, 4K/30p ⁷ signal output)
	COMPUTER IN	D-sub 15-pin (female) x 1 (RGB/YPbPr/YCbCr)
	AUDIO IN	M3 stereo mini-jack x 1
	AUDIO OUT	M3 stereo mini-jack x 1
	SERIAL IN	D-sub 9-pin (female) x 1 for computer control (RS-232C compliant)
	LAN/DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBaseT [™] compliant), 100Base-TX (Compatible with PLink [™] [Class 2], HDCP, Deep Color, 4K/30p ⁷ signal input)
	LAN	RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink [™] [Class 2]
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)
Protocol versions		IPv4, IPv6 ⁹
Power supply		Single-phase AC 100 V–240 V, 50/60 Hz
Power consumption ¹⁰	Maximum power consumption	325 W (3.4–1.4 A) (330 VA) (Power consumption is 310 W at AC 200–240 V)
	On-mode power consumption (Light Power)	NORMAL 290 W (AC 100–120V), 280 W (AC 200–240 V) ECO 215 W (AC 100–120V), 205 W (AC 200–240 V) QUIET 210 W (AC 100–120V), 200 W (AC 200–240 V)
	Built-in speaker	10 W monaural
Filter ¹¹		Included (Estimated maintenance time: approx. 20,000 hours)
Operation noise ²		34 dB (NORMAL/ECO), 25 dB (QUIET)
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)
Weight ¹²		Approx. 9.5 kg (20.9 lbs)
Operating environment		Operating temperature: 0–45 °C (32–113 °F) ¹³ , Operating humidity: 20–80 % (no condensation)
Applicable software		Multi Monitoring & Control Software, Logo Transfer Software, Projector Network Setup Software, Presenter Light Software for Windows ^{®14} , Wireless Projector App for iOS/Android ^{®15}
Control function via LAN		PLink [™] [Class 2], Crestron Connected [™] , AMX Device Discovery

¹ When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], and [SYSTEM DAYLIGHT VIEW] is set to [OFF]. ² Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. ³ Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. ⁴ 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. ⁵ 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. ⁶ When Digital Zoom Extender is set to 80 %. ⁷ Supports signals up to 4K/30p. A signal with different resolution is converted to the number of display dots (1920 x 1200 dots). ⁸ Depending on the connected CEC command-compatible device, the link control may not operate normally. ⁹ Main version of the firmware must be 2.00 or higher. Optional AJ-WM50 Series Wireless Module does not support IPv6. ¹⁰ 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). ¹¹ 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). ¹² Average value. May differ depending on the actual unit. ¹³ 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 the optional AJ-WM50 Series Wireless Module is attached, operating temperature range becomes 0–40 °C (32–104 °F). ¹⁴ 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. ¹⁵ 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 WUXGA (1280 x 800).

Optional Accessories

- **Ceiling Mount Bracket**
ET-PKD120H (for high ceilings) / ET-PKD120S (for low ceilings) / ET-PKD130H (with 6-axis adjustment mechanism)
Note: ET-PKD120H/PKD120S/PKD130H is used in combination with ET-PKE301B (sold separately).
- **Attachment for Ceiling Mount Bracket** ET-PKE301B

- **Wall Mount Bracket** ET-WBC100
- **Replacement Filter Unit** ET-RFV500
- **ET-FMP50 Series Media Processors** ET-FMP50 / ET-FMP20
Note: For more information, please visit:
<https://docs.connect.panasonic.com/projector/products/fmp50>

- **Wireless Module** AJ-WM50 Series
Note: Availability may vary by country or region. The suffix at the end of the model number is omitted. Operating temperature: 0–40 °C (32–104 °F).
- **Wireless Presentation System PressIT** TY-WPS2 (basic set)
Note: visit <https://docs.connect.panasonic.com/prodisplays/products/ty-wps2/> for more information.



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All information included here is valid as of July 2025.

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