

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



White Models



Black Models



[Preliminary Specification] PT-CMZ50 LCD Projector	
Light Output	5,200 lm <sup>3</sup>
Resolution	WUXGA (1920 x 1200 pixels)

## • Communicate Clearly and Comfortably

CMZ50 is an ultra-short-throw projector for well-lit hyflex learning and meeting spaces. It delivers an 80-inch image from about 1 cm (1/3 in.)<sup>4</sup>, avoiding shadows on screen. Laser light-source develops 5,200 lm<sup>3</sup> with 3,000,000:1<sup>5</sup> Dynamic Contrast. Watts-per-lumen efficiency is about 31%<sup>6</sup> better than other lamp-based short-throw models, and no light-source or filter maintenance is required for 20,000 hours<sup>7</sup>.

## • Flexible, Versatile, and Easy to Install

CMZ50 installs flexibly on ceiling or wall using optional mounts including ET-WBC100, a lightweight wall-mount system that ships partially preassembled for easy installation. Image adjustment is easily performed via remote control using Digital Zoom Extender and Image Shift<sup>8</sup> function and powered focus. Stylish body and quiet 26 dB<sup>9</sup> operation blend CMZ50 into your space, limiting distractions.

## • Fast and Frictionless UX

With widescreen content becoming popular, CMZ50 supports 2560 x 1080 (21:9)<sup>10</sup> and 3240 x 1080 (27:9)<sup>10</sup> input signals. An HDMI™ output is included to connect a second projector. Start work instantly: images appear about a second<sup>11</sup> after powering on, and CEC command-compatible<sup>12</sup> HDMI™ turns the projector on and displays automatically when content is played from a device. You can also share your screen via Wireless Presentation System PressIT<sup>2</sup> or wireless module<sup>2</sup>.

<sup>1</sup> Input signals are converted to the projector's resolution upon playback. YPbPr 4:2:0 format only for 4K/30p signals input via DIGITAL LINK. <sup>2</sup> Optional accessories sold separately. Availability may vary by country or region. <sup>3</sup> When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and method of notation are all compliant with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. <sup>4</sup> Value is the distance from projector body to wall. <sup>5</sup> 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 average of all products when shipped. <sup>6</sup> Based on 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). <sup>7</sup> 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/m<sup>3</sup> of particulate matter). Estimated time until light output declines to 50 % 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/m<sup>3</sup>), 10,000 hours (under dust conditions of 0.15 mg/m<sup>3</sup>). <sup>8</sup> Resolution decreases when using Digital Zoom Extender and Image Shift. Some screen-correction functions are not available when using this function, and range of corner adjustment is limited. Image size is reduced to 80 % when Digital Image Shift is enabled. <sup>9</sup> In QUIET Mode. 35 dB in NORMAL/ECCO Mode. <sup>10</sup> 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). <sup>11</sup> 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 projector runtime. [QUICK STARTUP] cannot be set when [STANDBY MODE] is set to [ECO]. May vary depending on connection terminals, signals, and other conditions. <sup>12</sup> Depending on the connected CEC command-compatible device, the link control may not operate normally.

## Specifications

<b>Model</b>	PT-CMZ50	
<b>Projector type</b>	LCD projector	
<b>LCD panel</b>	<b>Size</b>	16.3 mm (0.64 in) diagonal (16:10 aspect ratio)
	<b>Display system</b>	Transparent LCD panel (x 3, R/G/B)
	<b>Drive method</b>	Active matrix
	<b>Pixels</b>	2,304,000 (1920 x 1200) pixels
<b>Light source</b>	Laser diodes	
<b>Light output</b> <sup>1,2</sup>	5,200 lm	
<b>Time until light output declines to 50 %</b> <sup>3</sup>	20,000 hours (NORMAL/QUIET)/24,000 hours (ECO)	
<b>Resolution</b>	WUXGA (1920 x 1200 pixels)	
<b>Contrast ratio</b> <sup>1</sup>	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1].)	
<b>Screen size (diagonal)</b>	2.03–3.05 m (80–120 in), 16:10 aspect ratio	
<b>Center-to-corner zone ratio</b> <sup>1</sup>	85 %	
<b>Lens</b>	Fixed zoom, powered focus lens, F = 1.7, f = 2.81 mm, throw ratio: 0.235:1 (Projection distance: 1 cm [1/3 in] for 80-inch image)	
<b>Digital Zoom Extender</b> <sup>4</sup>	Throw ratio 0.235–0.288:1 <sup>5</sup> (Corresponding value)	
<b>Keystone correction range</b>	Vertical: ±3°, Horizontal: ±3°	
<b>Installation</b>	Ceiling/floor, front/rear, free 360-degree installation	
<b>Terminals</b>	<b>HDMI™ 1/2 IN</b>	HDMI™ 19-pin x 2 (Compatible with HDCP 1.4, Deep Color, 4K/30p <sup>6</sup> signal input), CEC supported <sup>7</sup>
	<b>HDMI™ OUT</b>	HDMI™ 19-pin x 1 (Compatible with HDCP 1.4, Deep Color, 4K/30p <sup>6</sup> signal output)
	<b>COMPUTER IN</b>	D-sub 15-pin (female) x 1 (RGB/Y/PbPr/YCbCr)
	<b>AUDIO IN</b>	M3 stereo mini-jack x 1
	<b>VARIABLE AUDIO OUT</b>	M3 stereo mini-jack x 1
	<b>SERIAL IN</b>	D-sub 9-pin (female) x 1 for computer control (RS-232C compliant)
	<b>LAN/DIGITAL LINK</b>	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 <sup>6</sup> signal input)
	<b>LAN</b>	RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink™ [Class 2]
	<b>USB (VIEWER/WIRELESS/DC OUT)</b>	USB connector (Type A) x 1 for Memory Viewer function, optional AJ-WM50 Series Wireless Module, power supply (DC 5 V, maximum 2 A)
	<b>Protocol versions</b>	IPv4
<b>Power supply</b>	AC 100 V–240 V, 50/60 Hz	
<b>Power consumption</b> <sup>8</sup>	<b>Maximum power consumption</b>	325 W (AC 100–120 V), 310 W (AC 200–240 V)
	<b>On-mode power consumption (Light Power)</b>	<b>NORMAL</b> 290 W (AC 100–120 V), 280 W (AC 200–240 V)
		<b>ECO</b> 215 W (AC 100–120 V), 205 W (AC 200–240 V)
		<b>QUIET</b> 210 W (AC 100–120 V), 200 W (AC 200–240 V)
<b>Built-in speaker</b>	10 W monaural	
<b>Cabinet materials</b>	Molded plastic	
<b>Filter</b> <sup>9</sup>	Included (Estimated maintenance time: approx. 20,000 hours)	
<b>Operation noise</b> <sup>1</sup>	35 dB (NORMAL/ECO), 26 dB (QUIET)	
<b>Dimensions (W x H x D)</b>	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)	
<b>Weight with supplied lens</b> <sup>10</sup>	Approx. 9.5 kg (20.9 lbs)	
<b>Operating environment</b>	Operating temperature: 0–45 °C (32–113 °F) <sup>11</sup> , Operating humidity: 20–80 % (no condensation)	
<b>Applicable software</b>	Multi Monitoring & Control Software, Logo Transfer Software, Projector Network Setup Software, Presenter Light Software for Windows <sup>®12</sup> , Wireless Projector App for iOS/Android <sup>™13</sup>	
<b>Control function via LAN</b>	PLink™ [Class 2], Crestron Connected™, AMX Device Discovery	

<sup>1</sup> Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. <sup>2</sup> When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], [DAYLIGHT VIEW] is set to [OFF], and [AUTO POWER SAVE] is set to [OFF]. <sup>3</sup> 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/m<sup>3</sup> of particulate matter). Estimated time until light output declines to 50 % varies depending on environment. <sup>4</sup> 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. <sup>5</sup> When Digital Zoom Extender is set to 80 %. <sup>6</sup> 4K signals are converted to the projector's resolution upon projection. <sup>7</sup> Depending on the connected CEC command-compatible device, the link control may not operate normally. <sup>8</sup> 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). <sup>9</sup> 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/m<sup>3</sup>), 10,000 hours (under dust conditions of 0.15 mg/m<sup>3</sup>). <sup>10</sup> Average value. May differ depending on the actual unit. <sup>11</sup> 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). <sup>12</sup> 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. <sup>13</sup> 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 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
- DIGITAL LINK Switcher**  
 ET-YFB200G  
*Note: ET-YFB200G is not compatible with 4K signals.*
- Digital Interface Box**  
 ET-YFB100G  
*Note: ET-YFB100G is not compatible with 4K signals.*
- 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-WPS1 (basic set)  
*Note: Visit <https://panasonic.net/cns/prodisplays/pressit> for more information.*
- Early Warning Software**  
 ET-SWA100 Series  
*Note: Part number suffix may differ depending on the license type.*

# Panasonic CONNECT

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Availability of products and accessories may vary by country or region. Products may be subject to export control regulations. The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade Dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. Trademark PLink is a trademark applied for trademark rights in Japan, the United States of America and other countries and areas. Android is a trademark or registered trademark of Google LLC. iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license. Windows® is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. SOLID SHINE and PressIT are trademarks of Panasonic Holdings Corporation. All other trademarks are the property of the respective trademark owners. © Panasonic Connect Co., Ltd. 2023. All rights reserved.



For more information about Panasonic projectors, please visit:  
 Projector Global Website – <https://panasonic.net/cns/projector/>  
 Facebook – [www.facebook.com/panasonicprojectoranddisplay](https://www.facebook.com/panasonicprojectoranddisplay)  
 YouTube – [www.youtube.com/user/PanasonicProjector](https://www.youtube.com/user/PanasonicProjector)

*Note: Following the shift of the Panasonic Group to a holding company system, the Connected Solutions Company of the Panasonic Corporation has changed to Panasonic Connect Co., Ltd. as of April 1, 2022.*

All information included here is valid as of January 2023.

PT-CMZ50PRE3 Printed in Japan.