



## 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://ap.pnd.panasonic.com/tw/en/pt-cmz50>

<b>Projector type</b>	LCD projector
<b>Display method</b>	Transparent LCD panel (x 3, R/G/B)
<b>Display Device -&gt; Panel size</b>	16.3 mm (0.64 in) diagonal (16:10 aspect ratio)
<b>Display Device -&gt; Drive method</b>	Active matrix method
<b>Display Device -&gt; Number of pixels</b>	2,304,000 (1920 x 1200 pixels)
<b>Light source</b>	Laser diodes
<b>Light output *1 *2</b>	5,200 lm
<b>Light output (ANSI) *1 *2</b>	5,200 lm
<b>Time until light output declines to 50 % -&gt; NORMAL *6</b>	20,000 hours [NORMAL]
<b>Time until light output declines to 50 % -&gt; ECO *6</b>	24,000 hours [ECO]
<b>Time until light output declines to 50 % -&gt; QUIET *6</b>	20,000 hours [QUIET]
<b>Resolution</b>	WUXGA (1920 x 1200 pixels)
<b>Contrast Ratio (typ.) *3</b>	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 *3</b>	85%
<b>Lens</b>	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)
<b>Digital Zoom Extender *7</b>	Throw ratio 0.235–0.288:1 *5 (16:10 aspect ratio) (Corresponding value)
<b>Keystone correction range</b>	Vertical: ±3°, Horizontal: ±3°
<b>Installation</b>	Ceiling/floor, front/rear, free 360-degree installation
<b>Terminals -&gt; HDMI™ IN</b>	HDMI™ 19-pin x 2 (Compatible with HDCP 1.4, Deep Color, 4K/30p*6 signal input), CEC supported*7
<b>Terminals -&gt; HDMI™ OUT</b>	HDMI™ 19-pin x 1 (Compatible with HDCP 1.4, Deep Color, 4K/30p*6 signal output)
<b>Terminals -&gt; COMPUTER IN (D-SUB 15pin)</b>	D-sub 15-pin (female) x 1 (RGB/YBPBR/YBCBR)
<b>Terminals -&gt; AUDIO IN (M3 Stereo Mini Jack)</b>	M3 stereo mini-jack x 1
<b>Terminals -&gt; AUDIO OUT (M3 Stereo Mini Jack)</b>	M3 stereo mini-jack x 1
<b>Terminals -&gt; SERIAL IN</b>	D-sub 9-pin (female) x 1 for computer control (RS-232C compliant)
<b>Terminals -&gt; DIGITAL LINK IN / LAN</b>	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBase™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], HDCP, Deep Color, 4K/30p*6 signal input)
<b>Terminals -&gt; LAN</b>	RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink™ [Class 2]
<b>Terminals -&gt; USB TYPE A</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, IPv6*8
<b>Power supply</b>	AC 100–240 V, 50/60 Hz
<b>Maximum power consumption *8</b>	325 W (3.4–1.4 A) (330 VA) (Power consumption is 310 W at AC 200–240 V)
<b>On-mode power consumption (Operating mode) -&gt; Normal *8 *9</b>	[NORMAL] 290 W (AC 100–120 V), 280 W (AC 200–240 V)
<b>On-mode power consumption (Operating mode) -&gt; Eco *8 *9</b>	[ECO] 215 W (AC 100–120 V), 205 W (AC 200–240 V)
<b>On-mode power consumption (Operating mode) -&gt; Quiet *9 *10</b>	[QUIET] 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>	Included
<b>Estimated filter maintenance cycle</b>	Approx. 20,000 hours
<b>Operation noise -&gt; Normal *3</b>	34 dB [NORMAL]
<b>Operation noise -&gt; Eco *3</b>	34 dB [ECO]
<b>Operation noise -&gt; Quiet *3</b>	25 dB [QUIET]
<b>Body Colour</b>	Black/White
<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>Dimensions (W x H x D) -&gt; Width (not including protruding parts)</b>	495 mm (19 1/2")

<b>Dimensions -&gt; Width (including protruding parts)</b>	495 mm (19 1/2")
<b>Dimensions -&gt; Height (not including protruding parts)</b>	160 mm (6 19/64")
<b>Dimensions -&gt; Height (including protruding parts)</b>	176 mm (6 15/16")
<b>Dimensions -&gt; Depth (not including protruding parts)</b>	421 mm (16 37/64")
<b>Dimensions -&gt; Depth (including lens)</b>	421 mm (16 37/64")
<b>Gross Dimensions (W x H x D in mm)</b>	CMZ50U/CMZ50EJ/CMZ50BU/CMZ50BE: 647 x 512 x x270 mm CMZ50/CMZ50B: 637 x 502 x 256 mm
<b>Weight *10</b>	Approx. 9.5 kg (20.9 lbs)
<b>Gross Weight (Kg)</b>	CMZ50EJ/CMZ50BEJ: 13.7 kg(30.2 lbs) CMZ50U/CMZ50BU: 13.5 kg(29.8 lbs) CMZ50/CMZ50B: 12.5 kg(27.6 lbs)
<b>Operating environment -&gt; Operating temperature</b>	0-45 °C (32-113 °F)
<b>Operating Environment -&gt; Operating humidity (No condensation)</b>	20-80 % (no condensation)
<b>Applicable software</b>	Multi Monitoring & Control Software, Logo Transfer Software, Projector Network Setup Software, Presenter Light Software for Windows®*13, Wireless Projector App for iOS/Android™*14
<b>NFC</b>	<a href="https://docs.connect.panasonic.com/projector/products/smartycontrol/regional.html#regional">https://docs.connect.panasonic.com/projector/products/smartycontrol/regional.html#regional</a>
<b>Control function via LAN</b>	PJLink™ [Class 2], Crestron Connected™, AMX Device Discovery
<b>EAN</b>	CMZ50: 5025232944088 CMZ50EJ: 5025232944095 CMZ50B: 5025232944101 CMZ50BEJ: 5025232944118
<b>Footnote Description</b>	<ol style="list-style-type: none"> <li>1. When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], and [SYSTEM DAYLIGHT VIEW] is set to [OFF].</li> <li>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.</li> <li>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.</li> <li>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/m<sup>3</sup> of particulate matter). Estimated time until light output declines to 50 % varies depending on environment.</li> <li>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.</li> <li>6. When Digital Zoom Extender is set to 80 %.</li> <li>7. Supports signals up to 4K/30p. A signal with different resolution is converted to the number of display dots (1920 x 1200 dots).</li> <li>8. Depending on the connected CEC command-compatible device, the link control may not operate normally.</li> <li>9. Main version of the firmware must be 2.00 or higher. Optional wireless module AJ-WM50 does not support IPv6.</li> <li>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).</li> <li>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/m<sup>3</sup>), 10,000 hours (under dust conditions of 0.15 mg/m<sup>3</sup>).</li> <li>12. Average value. May differ depending on the actual unit.</li> <li>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 optional AJ-WM50 Series wireless module is attached, operating temperature range becomes 0-40 °C (32-104 °F).</li> <li>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.</li> <li>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 WXGA (1280 x 800).</li> </ol>