Panasonic CONNECT



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.connect.panasonic.com/sg/en/pt-cmz50

Projector type	LCD projector
Display method	Transparent LCD panel (x 3, R/G/B)
Display Device -> Panel size	16.3 mm (0.64 in) diagonal (16:10 aspect ratio)
Display Device -> Drive method	Active matrix method
Display Device -> Number of pixels	2,304,000 (1920 x 1200 pixels)
Light source Light output *1 *2 *3	Laser diodes
	5,200 lm
Light output (ANSI) *4	5,200 lm
Time until light output declines to 50 % -> NORMAL *6	
Time until light output declines to 50 ዓ -> ECO ^{*6}	
Time until light output declines to 50 % -> QUIET ^{*6}	%20,000 hours [QUIET]
Resolution	WUXGA (1920 x 1200 pixels)
Contrast Ratio (typ.) ^{*3}	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 *3	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*5 (16:10 aspect ratio) (Corresponding value)
Keystone correction range	Vertical: ±3 °, Horizontal: ±3 °
Installation	Ceiling/floor, front/rear, free 360-degree installation
Installation Terminals -> HDMI [™] IN	HDMI TM 19-pin x 2 (Compatible with HDCP 1.4, Deep Color, 4K/30p*6 signal input), CEC
IEI IIIIIIQIS -> UDINIT IIA	supported*7
Terminals -> HDMI [™] OUT	HDMI TM 19-pin x 1 (Compatible with HDCP 1.4, Deep Color, 4K/30p*6 signal output)
Terminals -> COMPUTER IN (D-SUB	D-sub 15-pin (female) x 1 (RGB/YPBPR/YCBCR)
Terminals -> AUDIO IN(M3 Stereo Mini Jack)	M3 stereo mini-jack x 1
Terminals -> AUDIO OUT(M3 Stereo Mini Jack)	M3 stereo mini-jack x 1
Terminals -> SERIAL IN	D-sub 9-pin (female) x 1 for computer control (RS-232C compliant)
Terminals -> DIGITAL LINK IN / LAN	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBaseT TM compliant), 100Base-TX (Compatible with PJLink TM [Class 2], HDCP, Deep
	Color, 4K/30p*6 signal input)
Terminals -> LAN	RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PJLink TM [Class 2]
Terminals -> USB TYPE A	$\label{lem:usb} USB\ connector\ (Type\ A)\ x\ 1\ for\ Memory\ Viewer\ function,\ optional\ AJ-WM50\ Series\ Wireles\ Module, power\ supply\ (DC\ 5\ V,\ maximum\ 2\ A)$
Protocol versions	IPv4, IPv6*8
Power supply	AC 100-240 V, 50/60 Hz
Maximum power consumption *9	325 W (3.4–1.4 A) (330 VA) (Power consumption is 310 W at AC 200–240 V)
consumption(Operating mode) ->	[NORMAL]290 W (AC 100–120 V), 280 W (AC 200–240 V)
consumption(Operating mode) -> Normal ^{*9}	[NORMAL]290 W (AC 100–120 V), 280 W (AC 200–240 V) [ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V)
consumption(Operating mode) -> Normal ^{*9} On-mode power consumption(Operating mode) -> Eco	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V)
consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco *9 On-mode power consumption(Operating mode) ->	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V)
consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco r9 On-mode power consumption(Operating mode) -> Quiet *9	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V) [QUIET]210 W (AC 100–120 V), 200 W (AC 200–240 V)
consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco *9 On-mode power consumption(Operating mode) -> Quiet *9 Built-in speaker	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V) [QUIET]210 W (AC 100–120 V), 200 W (AC 200–240 V)
consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco r9 On-mode power consumption(Operating mode) -> Quiet *9 Built-in speaker Cabinet materials	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V) [QUIET]210 W (AC 100–120 V), 200 W (AC 200–240 V) 10 W monaural Molded plastic
consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco r9 On-mode power consumption(Operating mode) -> Quiet *9 Built-in speaker Cabinet materials	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V) [QUIET]210 W (AC 100–120 V), 200 W (AC 200–240 V) 10 W monaural Molded plastic Included
consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco *9 On-mode power consumption(Operating mode) -> Eco *Quiet *9 Built-in speaker Cabinet materials Filter Estimated filter maintenance cycle	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V) [QUIET]210 W (AC 100–120 V), 200 W (AC 200–240 V) 10 W monaural Molded plastic Included Approx. 20,000 hours
consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco *9 On-mode power consumption(Operating mode) -> Eco *9 Consumption(Operating mode) -> Quiet *9 Built-in speaker Cabinet materials Filter Estimated filter maintenance cycle Operation noise -> Normal *3	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V) [QUIET]210 W (AC 100–120 V), 200 W (AC 200–240 V) 10 W monaural Molded plastic Included Approx. 20,000 hours 34 dB [NORMAL]
consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco *9 On-mode power consumption(Operating mode) -> Eco consumption(Operating mode) -> Quiet *9 Built-in speaker Cabinet materials Filter Estimated filter maintenance cycle Operation noise -> Normal *3 Operation noise -> Eco *3	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V) [QUIET]210 W (AC 100–120 V), 200 W (AC 200–240 V) 10 W monaural Molded plastic Included Approx. 20,000 hours 34 dB [NORMAL] 34 dB [ECO]
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consumption(Operating mode) -> Normal *9 On-mode power consumption(Operating mode) -> Eco *9 On-mode power consumption(Operating mode) -> Quiet *9 Built-in speaker Cabinet materials Filter Estimated filter maintenance cycle Operation noise -> Normal *3 Operation noise -> Eco *3 Operation noise -> Quiet *3 Dimensions (W x H x D) Dimensions (W x H x D) Dimensions -> Width (not including protruding parts) Dimensions -> Width (including	[ECO]215 W (AC 100–120 V), 205 W (AC 200–240 V) [QUIET]210 W (AC 100–120 V), 200 W (AC 200–240 V) 10 W monaural Molded plastic Included Approx. 20,000 hours 34 dB [NORMAL] 34 dB [ECO] 25 dB [QUIET] 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)
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176 mm (6 15/16")
421 mm (16 37/64")
421 mm (16 37/64")
Approx. 9.5 kg (20.9 lbs)
0–45 °C (32–113 °F)
20–80 % (no condensation)
Multi Monitoring & Control Software, Logo Transfer Software, Projector Network Setup Software,Presenter Light Software for Windows®*13, Wireless Projector App for iOS/Android TM *14
PJLink TM [Class 2], Crestron Connected TM , AMX Device Discovery
 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

- ISO/IEC 21118: 2020 international standards. Value is average of all products
- 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.
- ${\tt 5. \, Resolution \, decreases \, when \, using \, Digital \, Zoom \, Extender. \, Some \, screen-correction}$ 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 \times 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 wireless module AJ-WM50 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 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 WXGA (1280 x 800).