

# Panasonic CONNECT



**\*1 Light output of PT-MZ20KL. As of November 2022, based on publicly available dimensions, weight, and operation noise values for LCD laser projectors with 20,000 lm brightness and above.**

**Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped.**

## PT-MZ14KL

Introducing the smallest, lightest, and quietest LCD laser projector in its class with up to 20,000 lm\*, compact 23 kg\*2 (50.7 lbs) body, and quiet 42 dB\*3 operation. Optimized optical engine delivers a 25 % increase in brightness over the 16,000 lm\*4 PT-MZ16KL from the same body size, ensuring clear visibility in well-lit spaces.

### Key Features

World's Smallest, Lightest, and Quietest 14,000 lm LCD Projector

Delivering up to 20,000 lm on AC 100–240 V, a World First

Long-Life Energy-Saving Design Minimizes Problems

PT-MZ14KL

<https://eu.connect.panasonic.com/pt/en/products/projectors/pt-mz14kl>

Light Output*1 *2	14,000 lm
Filter	Included (Estimated maintenance time: approx. 20,000 hours *7)
Operation noise*1	35 dB (NORMAL), 30 dB (QUIET)
Power consumption*6   Maximum power consumption	800 W (8.1–3.3 A) (810 VA)
Power consumption*6   On-mode power consumption (Light power) [Normal]	720 W (AC 100–120 V), 690 W (AC 200–240 V)
Power consumption*6   On-mode power consumption (Light power) [Quiet]	460 W (AC 100–120 V), 445 W (AC 200–240 V)
Dimensions (W x H x D)	Approx. 650 x 185 x 440 mm (25 19/32" x 7 9/32" x 17 5/16" ) (excluding feet and protrusions), 650 x 211 x 440 mm (25 19/32" x 8 5/16" x 17 5/16" ) (excluding protrusions, feet at shortest position)
Lens	Optional (no lens included with this model)
Resolution	WUXGA (1920 x 1200 pixels)
Operating Environment	Operating temperature: 0–45 °C (32–113 °F)*9, operating humidity: 10–80 % (no condensation)
Keystone Correction Range	Vertical: ±45 ° (±5 ° with ET-EMU100, ±14 ° with ET-EMW200/ET-EMW300, ±22 ° with ET-EMW400/ET-EMW500), Horizontal: ±40 ° (±0 ° with ET-EMU100, ±8 ° with ET-EMW200/ET-EMW300, ±15 ° with ET-EMW400/ET-EMW500). When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.
Screen Size (Diagonal)	2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, 2.03–12.70 m (80–500 in) with ET-EMT8004, 16:10 aspect ratio
Applicable Software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro, Projector Network Setup Software, Smart Projector Control for iOS/Android™
Contrast Ratio*1	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] set to [3].)
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 [OPERATING MODE] is set to [NORMAL]. This is the value when the Zoom Lens (Model No.: ET-EMS650) is used. The value varies depending on the lens. *3 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, [DYNAMIC CONTRAST] set to [3], under conditions with 30 °C (86 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m <sup>3</sup> of particulate matter. Estimated time until light output decreases to 50 % will vary depending on environment. *4 ET-EMT800 is compatible with PT-MZ17KL/MZ14KL/MZ11KL only. It cannot be used with PT-MZ20KL. *5 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. 4K/60p and 4K/50p signals input via DIGITAL LINK are supported in YBPBR 4:2:0 format only. *6 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). *7 Under conditions of 0.15 mg/m <sup>3</sup> of particulate matter. Estimated maintenance time varies depending on environment. Filter can be washed and reused up to two times. *8 Average value. May differ depending on the actual unit. *9 Note that the projector cannot be used at altitudes 2,700 m (8,858 ft) or higher above sea level. In the following operating environments, light output may be reduced to protect the projector: when the projector is used at altitudes below 1,400 m (4,593 ft) and ambient temperature is 35 °C (95 °F) or higher; when the projector is used at altitudes between 1,400 m (4,593 ft) and 2,700 m (8,858 ft) exclusive and ambient temperature is 30 °C (86 °F) or higher. The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) when the optional AJ-WM50 Series Wireless Module is attached.
Power Supply	AC 100–240 V, 50/60 Hz
Light Source	Laser diode
Terminals   LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PjLink™ [Class 2], Art-Net)
Terminals   DC Out	USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A)
LCD Panel   Panel Size	25.4 mm (1.0 in) diagonal (16:10 aspect ratio)
LCD Panel   Drive Method	Active matrix method
Terminals   SDI In	BNC x 1: 3G/HD-SDI input
Terminals   HDMI In	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input5), CEC supported
Terminals   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], Art-Net, HDCP 2.3, Deep Color, 4K/60p signal input*5 )
Terminals   Remote 2 In	M3 x 1 for wired remote control
Terminals   Serial/Multi Projector Sync In	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
Terminals   Serial/Multi Projector Sync Out	D-sub 9-pin (male) x 1 for link control (RS-232C compliant)
Weight*8	Approx. 22.5 kg (49.6 lbs)
Terminals   REMOTE 1	D-sub 9-pin (female) x 1 for external control (parallel)
Projector type	LCD projector
Lens shift   Vertical (from center of screen)	±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)

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<b>Lens shift   Horizontal (from center of screen)</b>	<b>±20 % (±19 % with ET-EMW200) (powered)</b>
<b>Center-to-corner zone ratio*1</b>	85 %
<b>Time until light output declines to 50 %*3</b>	20,000 hours (NORMAL/QUIET)
<b>Terminals   Remote 2 Out</b>	M3 x 1 for link control (for wired remote control)
<b>LCD Panel   Display System</b>	Transparent LCD panel (x 3, R/G/B)
<b>LCD Panel   Pixels</b>	2,304,000 (1920 x 1200 pixels)
<b>Terminals   USB</b>	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module, for USB memory

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