



The World's Smallest, Lightest, and Quietest 20,000 lm¹ Projector

¹ Light output of PT-MZ20KL. As of March 2023, 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.

■ Main Features

01 | World's Smallest, Lightest, and Quietest 20,000 lm¹ LCD Projector

Introducing the smallest, lightest, and quietest LCD laser projector in its class with up to 20,000 lm¹, compact 23 kg³ (50.7 lbs) body, and quiet 42 dB⁴ operation. Optimized optical engine delivers a 25 % increase in brightness over the 16,000 lm⁵ PT-MZ16KL from the same body size, ensuring clear visibility in well-lit spaces.

02 | Long-Life Energy-Saving Design Minimizes Problems

Multi-Laser Drive Engine and Backup Input⁶ enable continuous projection even in the event of trouble, and no light-source or filter maintenance is required for 20,000 hours⁷. The series efficiently delivers high brightness with MZ20KL achieving the lowest power consumption in its class⁸ for sustainable operation.

03 | Delivering up to 20,000 lm⁵ on AC 100–240 V, a World First⁹

PT-MZ20K Series is the industry's first⁹ 20,000 lm-class projector to deliver full brightness on AC 100–240 V power, eliminating need to install a high-voltage power supply. It supports NFC function¹⁰, optional lenses including ET-EMU100 Ultra-Short-Throw Zoom Lens, and preactivated upgrade kits for Geo Pro¹¹.



White Models



Black Models

Note: Projectors ship without a lens.

PT-MZ20K Series

	PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL
Light Output	20,000 lm ⁵	16,500 lm ⁵	14,000 lm ⁵	11,000 lm ⁵
Resolution	WUXGA (1920 x 1200, 16:10)			

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Light, Bright, Quiet, and Harmonious

As the smallest and lightest 20,000 lm³ LCD laser projector in its class, MZ20K Series installs flexibly almost anywhere and delivers bright, immersive images in a wide range of applications, from conferences to edutainment. Its sophisticated body styling harmonizes with the spatial environment while quiet 42 dB¹ operation limits distractions, ideal for hybrid meeting rooms, museums, or lecture halls.

Perfectly Balanced Brightness and Color

Together with high-efficiency optical engine for immersive high-contrast images in well-lit rooms, MZ20K Series features Pure White Generator, an original technology that minimizes loss of light energy and balances rich color and high brightness. Dynamic Contrast NX includes new scene-recognition circuitry that detects light and dark areas of the image more precisely, while Detail Clarity Processor 4 sharpens text edges for clear visibility.

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Specifications

Model	PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL	
Projector type	LCD projector				
LCD Panel	Size	25.4 mm (1.0 in) diagonal (16:10 aspect ratio)			
	Display system	Transparent LCD panel (x 3, R/G/B)			
	Pixels	2,304,000 (1920 x 1200 pixels)			
Light source	Laser diode				
Light output ^{1,2}	20,000 lm	16,500 lm	14,000 lm	11,000 lm	
Time until light output declines to 50 % ³	20,000 hours (NORMAL/QUIET)				
Resolution	WXGA (1920 x 1200 pixels)				
Contrast ratio ⁴	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] set to [3])				
Screen size (diagonal)	2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, 16:10 aspect ratio	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-EMT800 ⁴ , 16:10 aspect ratio			
Center-to-corner zone ratio ¹	85 %				
Lens	Optional (no lens included with this model)				
Lens shift (from center of screen)	Vertical	±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)			
	Horizontal	±20 % (±19 % with ET-EMW200) (powered)			
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°.				
Terminals	SDI IN	BNC x 1: 3G/HD-SDI input			
	HDMI IN	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input ⁵), CEC supported			
	SERIAL/MULTI PROJECTOR SYNC IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)			
	SERIAL/MULTI PROJECTOR SYNC OUT	D-sub 9-pin (male) x 1 for link control (RS-232C compliant)			
	REMOTE 1 IN	D-sub 9-pin (female) x 1 for external control (parallel)			
	REMOTE 2 IN	M3 x 1 for wired remote control			
	REMOTE 2 OUT	M3 x 1 for link control (for wired remote control)			
	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], Art-Net, HDCP 2.3, Deep Color, 4K/60p signal input ⁶)			
	LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink [™] [Class 2], Art-Net)			
	DC OUT	USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A)			
Power supply	AC 100–240 V, 50/60 Hz				
Power consumption ⁶	Maximum power consumption	1100 W (11.2–4.6 A) (1120 VA)	950 W (9.6–4.0 A) (960 VA)	800 W (8.1–3.3 A) (810 VA)	615 W (6.3–2.7 A) (630 VA)
	On-mode power [NORMAL] consumption	1050 W (AC 100–120 V), 1000 W (AC 200–240 V)	880 W (AC 100–120 V), 850 W (AC 200–240 V)	720 W (AC 100–120 V), 690 W (AC 200–240 V)	540 W (AC 100–120 V), 520 W (AC 200–240 V)
	(Operating mode) [QUIET]	630 W (AC 100–120 V), 610 W (AC 200–240 V)	580 W (AC 100–120 V), 560 W (AC 200–240 V)	460 W (AC 100–120 V), 445 W (AC 200–240 V)	360 W (AC 100–120 V), 340 W (AC 200–240 V)
Filter	Included (Estimated maintenance time: approx. 20,000 hours ⁷)				
Operation noise ¹	42 dB (NORMAL), 36 dB (QUIET)	38 dB (NORMAL), 32 dB (QUIET)	35 dB (NORMAL), 30 dB (QUIET)		
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)				
Weight ⁸	Approx. 23.0 kg (50.7 lbs) / Approx. 22.5 kg (49.6 lbs)				
Operating environment	Operating temperature: 0–45 °C (32–113 °F) ⁹ , operating humidity: 10–80 % (no condensation)				
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 [™]				

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/m³ 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. ⁶ 4K/60p and 4K/50p signals input via DIGITAL LINK are supported in YpPr 4:2:0 format only. ⁷ Under conditions of 0.15 mg/m³ 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 AI-WM50 Series Wireless Module is attached.

Optional Accessories

- **Zoom Lens** ET-EMU100 (0.330–0.353:1) / ET-EMW200 (0.480–0.550:1) / ET-EMW300 (0.550–0.690:1) / ET-EMW400 (0.690–0.950:1) / ET-EMW500 (0.950–1.36:1) / ET-EMS650 (1.35–2.10:1) / ET-EMT750 (2.10–4.14:1) / ET-EMT700 (2.10–4.14:1) / ET-EMT850 (4.14–7.40:1) / ET-EMT800 (4.14–7.40:1)¹
¹ ET-EMS600, ET-EMT700, and ET-EMT800 are compatible with PT-MZ17KL/MZ14KL/MZ11KL only. They cannot be used with PT-MZ20KL.
- **Replacement Filter** ET-RFM100
- **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
- **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.
- **NFC Upgrade Kit** ET-NUK10
Note: Availability may vary by country or region.
- **Wireless Module** AI-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-WP51 (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.



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Facebook – www.facebook.com/panasonicprojectoranddisplay
YouTube – 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 April 2023.

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