

Meet the World's Smallest, Lightest, and Quietest 20,000 lm Projector¹, Ready to Bring Engaging, High-Visibility Images to Large Spaces

¹ As of February 2022, based on publicly available dimensions, weight, and operation noise values for 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.



Note: product appearance is subject to change.



[Preliminary Specification] PT-MZ20KL	
Light Output	20,000 lm ²
Resolution	WUXGA (1920 x 1200 pixels, 16:10)

Note: Projector ships without a lens.

• A Perfect Balance of High Brightness and Rich Color

As the world's smallest and lightest 20,000 lm projector¹, PT-MZ20KL delivers high performance harmonized for brightly lit spaces, all from a 23.3 kg³ (51.6 lbs) (TBD) body. Refined optical engine balances high brightness and vivid color with Pure White Generator and Dynamic Contrast deepening engagement and enhancing suitability for image rebroadcast.

• Harmonious Integration into Hybrid Spaces

Unobtrusive design blends into hybrid learning and meeting spaces with quiet 36 dB⁴ operation keeping attention on the content. PT-MZ20KL supports 4K signals⁵ and CEC commands via HDMI⁶, Smart Projector Control app⁶ with NFC function⁷ and auto-focus⁸, and preactivated upgrade kits for Geo Pro⁹ to automate edge-blending via camera¹⁰. Eight optional lenses including ET-EMU100 Ultra-Short-Throw Zoom Lens adapt projection to your space.

• Stress-free Reliability and High Efficiency

Multi-Laser Drive Engine, sealed liquid cooling system, and shielded phosphor-wheel cooling system secure reliable operation. ECO Filter¹¹ and light-source don't need maintenance for 20,000 hours¹², reducing TCO. Backup Input¹³ and laser Failover Circuitry add insurance when display must not be interrupted.

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Specifications (Tentative)

Model	PT-MZ20KL	
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)
	Drive method	Active matrix method
	Pixels	2,304,000 (1920 x 1200 pixels)
Light source	Laser diode	
Light output ^{1,2}	20,000 lm	
Time until light output declines to 50 % ³	20,000 hours (NORMAL/QUIET)	
Resolution	WUXGA (1920 x 1200 pixels)	
Contrast ratio ¹	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [3].)	
Screen size (diagonal)	2.03–12.7 m (80–500 in), 2.54–10.16 m (100–400 in) with ET-EMU100 (TBD), 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: ±40° (±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) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55°.	
Installation	Ceiling/floor, front/rear, free 360-degree installation	
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*), 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*)
	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	USB	USB Connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module
	AC 100–240 V, 50/60 Hz	
Power consumption ⁵	Maximum power consumption	1,150 W (11.5–5 A) (1,160 VA) (TBD)
	On-mode power consumption [NORMAL]	1,100 W (TBD)
	On-mode power consumption [QUIET]	800 W (TBD)
Cabinet materials	Molded plastic	
Filter	Included (Estimated maintenance time: approx. 20,000 hours ⁶)	
Operation noise ¹	42 dB (NORMAL), 36 dB (QUIET) (TBD)	
Dimensions (W x H x D)	Approx. 650 x 211 ⁷ x 440 mm ⁸ (25 19/32" x 8 5/16" x 17 5/16") (TBD)	
Weight ⁹	Approx. 23.3 kg (51.6 lbs) (TBD)	
Operating environment	Operating temperature: 0–45 °C (32–113 °F) ¹⁰ , operating humidity: 10–80 % (no condensation)	
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro, 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 [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]. 3 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, Normal Mode, Dynamic Contrast [3], under conditions with 35 °C (95 °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 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. YPbPr 4:2:0 format only for 4K/60p signals input via DIGITAL LINK. 5 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). 6 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. 7 With legs at shortest position. 8 Not including protruding parts. 9 Average value. May differ depending on the actual unit. 10 When using the projector at an altitude lower than 2,700 m (8,858 ft) above sea level, and the operating environment temperature becomes 35 °C (95 °F) or higher, the light output may be reduced to protect the projector. When optional AJ-WM50 Series Wireless Module is attached, operating temperature range becomes 0–40 °C (32–104 °F).

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-EMT850 (4.14–7.40:1)

Note: ET-EMS650 will be available from December 2022. ET-EMT750 and ET-EMT850 will be available from January 2023.

• 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: 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: Product availability may vary by country or region.

• Wireless Module

AJ-WM50 Series

Note: product 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-WVPS1 (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

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Projector Global Website – <https://panasonic.net/cns/projector/>
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 2022.

PT-MZ20KLPRE3 Printed in Japan.