Panasonic CONNECT

PT-MZ20K Series

LCD Proiectors

PT-MZ20KL/PT-MZ17KL PT-MZ14KL/PT-MZ11KL

Note: Model availability varies by country or region. PT-MZ20KL available from CY2023 Q2.



1 Light output of PT-MZ2OKL. 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.

■ 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.

O3 | 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.















Black Models

Note: Projectors ship without a lens. PT-MZ20KL available from CY2023 Q2

PT-MZ20K Series

	PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL	
Light Output	20,000 lm ⁵	16,500 lm⁵	14,000 lm⁵	11,000 lm ⁵	
Resolution	WUXGA (1920 x 1200, 16:10)				

1 Light output of PT-MZ2OKL. 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 1 Light output of PT-MZ2NKL. As of November 2022, based on publicly available dimensions, weight, and operation noise values for LCD laser projectors with 20,000 (in 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. Thurst Signals are converted to the projector's (sloppy resolution) upon playback. 4K/650p signals are supported via HDMI and DIGITAL LINK terminals. 4K/660p and 4K/50p signals input via DIGITAL LINK are supported in YPBPR 4:2:0 format only. 3 For PT-MZ17KL/MZ14KL/MZ11KL: 22.5 kg (49.6 lbs). 4 PT-MZ20KL in NORMAL Mode. Noise levels of other models in NORMAL Mode are 38 dB for PT-MZ17KL and 35 dB for PT-MZ17KL/MZ11KL: 5 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 6 Primary Input (HDMI 1) and Backup Input (HDMI 2) terminal assignment is fixed. Input signals to primary and backup inputs must be identical. 7 Around this time, light output will have decreased to approximately 50% of its original level (IPICTURE MODE): [DYNAMIC]. [DYNAMIC CONTRAST] set to [3], temperature 30 °C [86 °F], elevation 700 m [2,297 ft] with 0.15 mg/m³ of particulate matter). Replacement of parts other than the light source may be required in a shorter period. Estimated time until light output declines to 50 % varies and above according to internal research. 30 °C [86 °F], elevation 700 m [2,297 ft] with 0.15 mg/m³ of particulate matter). Replacement of parts other than the light source may be required in a shorter period. Estimated time until light output declines to 50 % varies and above according to internal research. 9 As of November 2022, based on LCD laser projectors with 20,000 lm brightness and above according to internal research. 10 Projectors sold in some countries or regions require an ET-NUKTO Upgrade Kit available from PASS to activate NFC function. See NFC Re

Light, Bright, Quiet, and Harmonious

As the smallest and lightest 20,000 lm¹ 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 dB² 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.

World First3: Up to 20,000 lm4 on AC 100-240 V

MZ20KL is the first³ projector to deliver 20,000 lm⁴ on AC 100-240 V from a standard AC outlet, expanding application possibilities without special power-supply construction. The series' evolved features enable resource-friendly installation: highlights include preactivated upgrade kits for Geo Pro⁵, Remote Preview LITE, NFC function⁶, Information Monitor, support for 4K input signals⁷, black-level adjustment for curved screens, and eight8 optional lenses.

Eco-Friendly Energy-Saving Design

MZ20K Series is highly efficient, with MZ20KL consuming less energy than any projector in its class9 for highly sustainable daily operation. Light-source and filter replacement is extended to 20,000 hours¹⁰, reducing waste. The projector is liquid cooled and features a dustproof structure for stable operation. Multi-Laser Drive Engine limits brightness loss should a diode fail, while Backup Input¹¹ function maintains image display if the primary signal is interrupted.

Other Features

- Supports Art-Net DMX, PJLink™. Crestron Connected™ V2, Crestron XiO Cloud™, Extron XTP® and IPv612
- · Direct Power Off function
- · Quick Startup and Quick Off
- DICOM Simulation Mode
- Multi-Screen Support System • Multi-Unit Brightness and Color Control
- · Waveform Monitor function
- Power management system

1 Light output of PT-M2ZOKI. As of November 2022, based on publicly available dimensions, weight, and operation noise values for LCD laser projectors with 20,000 Im 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. 2 PT-M2ZOKI. In NORMAL Mode. Noise levels of other models in NORMAL Mode are 38 dB for PT-M2T1KL and 35 dB for PT-M2T4KL/M2T1KL. 3 As of as of November 2022, based on LCD laser projectors with 20,000 Im brightness and above according to internal research. 4 Light output of PT-M2ZOKI. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 5 Geometry Manager Pro software for Windows* and prescribed according to internal research. 4 Light output of PT-M2ZOKI. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 5 Geometry Manager Pro software for Windows* and prescribed according to internal research. 4 Light output of PT-M2ZOKI. 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 PT-M2ZOKI. 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 PT-M2ZOKI. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 5 Geometry Manager Pro Software Products according to internal research. The Complex of the Software Products and the Products of the Software Software Software Software Products and the Products of the Software Products and the Products of the Software Products and the Products of the Products of the Product

Model		PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL		
Projector type	e	LCD projector	-	<u> </u>			
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	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)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7		
Resolution		WUXGA (1920 x 1200 pixels)					
Contrast ratio	ο¹	3,000,000:1 (Full Or/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] set to [3].)					
Screen size (d	diagonal)	2.03–15.24 m (80–600 in), 2.54–10.16 m 2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, (100–400 in) with ET-EMU100, 16:10 aspect ratio 2.03–12.70 m (80–500 in) with ET-EMT800*, 16:10 aspect ratio					
Center-to-cor	rner zone ratio¹	85 %		<u> </u>			
Lens		Optional (no lens included with this model)					
Lens shift	Vertical	±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)					
(from center of	f screen) Horizontal	±20 % (±19 % with ET-EMW200) (powered)					
Keystone corr	rection 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-EMW3 ±15 ° with ET-EMW400/ET-EMW500). When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.					
erminals SE	DIIN						
HI	DMIIN	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input ⁵), CEC supported					
SE	ERIAL/MULTI PROJECTOR SYNC IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant) IT D-sub 9-pin (male) x 1 for link control (RS-232C compliant)					
SE	ERIAL/MULTI PROJECTOR SYNC OUT						
RE	EMOTE 1 IN	D-sub 9-pin (female) x 1 for external control (parallel)					
RE	EMOTE 2 IN	M3 x 1 for wired remote control					
RE	EMOTE 2 OUT	M3 x 1 for link control (for wired remote control)					
DI	IGITAL LINK	Art-Net, HDCP 2.3, Deep Color, 4K/60p s	INK connection (video/network/serial control) (HDBaseT™ compliant), 100Base-TX (Compatible with PJLink™ [Class 2], iOp signal input ⁵)				
LAN		RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink* [Class 2], Art-Net)					
	COUT	USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A)					
U:	SB	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module, for USB memory					
Power supply	/	AC 100–240 V, 50/60 Hz					
Power	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)		
	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?)					
Operation no	oise 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)		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 en	vironment	Operating temperature: 0-45 °C (32-113 °F)°, operating humidity: 10-80 % (no condensation)					
Applicable so	oftware	Logo Transfer Software, Multi Monitoring &	Control Software, Early Warning Software	, Geometry Manager Pro, Projector Network Se	tup Software, Smart Projector Control for iOS/Andr		

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 Induction of the lens of the l

Optional Accessories

- Zoom Lens
- ET-EMU100 (0.330-0.353:1) / ET-EMW200 (0.480-0.550:1) E1-EMUT00 (0.430-0.35:1) / E1-EMW200 (0.480-0.55:1) / ET-EMW300 (0.550-0.690:1) / ET-EMW400 (0.690-0.950:1) / ET-EMW400 (0.900-0.950:1) / ET-EMS600 (0.950-1.36:1) / ET-EMS650 (1.35-2.10:1) / ET-EMS750 (2.10-4.41:1) / ET-EMS750 (2.10-4.41:1) / ET-EMT750 (2.10-4.74:1) / ET-EMT750 (2.10-4.74:1) / ET-EMT800 (4.14-7.40:1) / ET-EMT800, ET-EMT750, and ET-EMT850 will be available from CY2023 Q1. 2 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
- Note: ET-PKD120H/PKD120S/PKD130H used in combination with ET-PKE301B (sold separately).
- Attachment for Ceiling Mount Bracket
- DIGITAL LINK Switcher ET-YFB200G
- 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 AJ-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-WPS1 (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

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> Note: Following the shift of the Panasonic Group to a holding company system, the Connected Solution's Company of the Panasonic Corporation has char Panasonic Connect Co., Ltd. as of April 1, 2022.