Panasonic CONNECT

PT-MZ20K Series

LCD Proiectors

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

Note: Model availability varies by country or region



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.

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-MZ20K Series

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

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 Im brightness and above. Measurement, measuring conditions, and method of notation all comply 1 Light output of PT-MZ2NKL. As of March 2023, based on publicly available dimensions, weight, and operation noise values for LCO 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. 2 Input signals are converted to the projector's display resolution upon playback. 4K/60p and 4K/50p signals are supported via HDNIK terminals. 4K/60p and 4K/50p signals input via DIGITAL LINK are supported via HDNIK terminals. 4K/60p and 4K/50p signals input via DIGITAL LINK are supported in NORMAL Mode are 38 dB for PT-MZ17KL and 35 dB for PT-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-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-MZ14KL/MZ11KL. 5 dB for PT-MZ14KL/MZ11KL in the support of the Normal Standards. Value is average of all products when shipped. 6 PT-MZ14KL/MZ11KL is supported via HDNIK in the Information of the Normal Standards. Value is average of all products when shipped. 6 PT-MZ14KL/MZ11KL is supported via HDNIK in the Information of Informatio

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 21:9 input signals
- 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-M220KL. As of March 2023, 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-M220KL in NORMAL Mode. Noise levels of other models in NORMAL Mode are 38 dB for PT-M217KL and 35 dB for PT

Specifications

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 aspe	ct 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 %	20,000 hours (NORMAL/QUIET)						
Resolution	WUXGA (1920 x 1200 pixels)						
Contrast ratio1	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 aspe	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, 16:10 aspect ratio 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 Vertical	±60 % (+50 %, -20 % with ET-EMU10	±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)					
(from center of screen) 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-EMW30 ±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 SDIIN	BNC x 1: 3G/HD-SDI input						
HDMIIN	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input ⁹), CEC supported						
SERIAL/MULTI PROJECTOR SYNC I	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	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	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 PJLink" [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p signal input ⁵)						
LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net)						
DC OUT	USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A)						
USB	- // -	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 consumpt		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 On-mode power consumption (Operating mode) [QUIET]	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)			
	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 noise ¹	42 dB (NORMAL), 36 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)						
Operating environment		Operating temperature: 0-45 °C (32-113 °F)°, operating humidity: 10-80 % (no condensation)					
Applicable software	Logo Transfer Software, Multi Monitori	ng & Control Software, Early Warning Software	e, Geometry Manager Pro, Projector Network Se	tup Software, Smart Projector Control for iOS/Andro			

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) ET-EMW300 (0.550-0.690:1) / ET-EMW400 (0.690-0.950:1) / ET-EMW500 (0.950-0.350:1) / ET-EMS600 (1.35-2.10:1) / ET-EMS600 (1.35-2.10:1) / ET-EMT750 (2.10-4.14:1) / ET-EMT800 (2.10-4.14:1) / ET-EMT800 (4.14-7.40:1) / ET-EMT800 (4.14-7.40:1) /
- LE CAMIGNO (F.1-PT.-190.1)*

 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
- 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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