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 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 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. 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. Manager PT-M2ZOKI. Manager PT-M2ZOKI. Manager PT-M2ZOKI. Manager PT-M2ZOKI. Manager PT-M2ZOKI. Manager PT-M2ZOKI. Mana

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 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 % | 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 | | | | | | |
| 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*), 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) 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 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