Panasonic CONNECT

# PT-MZ20KL

Introducing the smallest, lightest, and quietest LCD laser projector in its class with up to 20,000 lm* , compact 23 kg*2 (50.7 lbs) body, and quiet 42 dB*3 operation.

**Key Features**

- World’s Smallest, Lightest, and Quietest 20,000 lm LCD Projector
- Long-Life Energy-Saving Design Minimizes Problems
- Delivering up to 20,000 lm on AC 100–240 V, a World First

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# PT-MZ20KL

https://ap.connect.panasonic.com/vn/en/products/projectors-and-displays/pt-mz20kl

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|---|---|
| **Projector type** | LCD projectors |
| **Display method** | Transparent LCD panel (x 3, R/G/B) |
| **Display Device -> Panel size** | 25.4 mm (1.0 in) diagonal (16:10 aspect ratio) |
| **Display Device -> Drive method** | Active matrix method |
| **Display Device -> Number of pixels** | 2,304,000 (1920 x 1200 pixels) |
| **Light source** | Laser diode |
| **Light output** *1 *2 *3 | 20,000 lm |
| **Light output (ANSI)** *1 *2 *4 | 20,000 lm |
| **Time until light output declines to 50 % -> NORMAL** *6 | 20,000 hours [NORMAL] |
| **Time until light output declines to 50 % -> QUIET** *4 | 20,000 hours [QUIET] |
| **Resolution** | WUXGA (1920 x 1200 pixels) |
| **Contrast Ratio (typ.)** *3 | 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) withET-EMU100, 16:10 aspect ratio |
| **Center-to-corner zone ratio** *3 | 85% |
| **Lens** | Optional (no lens included with this model) |
| **Lens shift -> Vertical(from center of screen)** | ±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered) |
| **Lens shift -> Horizontal(from center of screen)** | ±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),<br>Horizontal: ±40 ° (±0 ° with ET-EMU100, ±8 ° with ET-EMW200/ET-EMW300, ±15 ° with ET-EMW400/ET-EMW500).<br>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 |
| **Terminals -> HDMI™ IN** | HDMI™ 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input*4), CEC supported |
| **Terminals -> SERIAL/MULTI-PROJECTOR SYNC IN** | D-sub 9-pin (female) x 1 for external control (RS-232C compliant) |
| **Terminals -> SERIAL/MULTI-PROJECTOR SYNC OUT** | D-sub 9-pin (male) x 1 for link control (RS-232C compliant) |
| **Terminals -> REMOTE 1 IN** | D-sub 9-pin (female) x 1 for external control (parallel) |
| **Terminals -> REMOTE 2 IN** | M3 x 1 for wired remote control |
| **Terminals -> REMOTE 2 OUT** | M3 x 1 for link control (for wired remote control) |
| **Terminals -> DIGITAL LINK IN / LAN** | 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) |
| **Terminals -> LAN** | RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net) |
| **Terminals -> DC OUT** | USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A) |
| **Terminals -> USB TYPE A** | 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 |
| **Maximum power consumption** *9 | 1100 W (11.2–4.6 A) (1120 VA) |
| **On-mode power consumption(Operating mode) -> Normal** *9 *9 *10 | [NORMAL]<br>1050 W (AC 100–120 V),<br>1000 W (AC 200–240 V) |
| **On-mode power consumption(Operating mode) -> Quiet** *11 | [QUIET]<br>630 W (AC 100–120 V),<br>610 W (AC 200–240 V) |
| **Cabinet materials** | Molded plastic |
| **Filter** | Included |
| **Estimated filter maintenance cycle** *12 | approx. 20,000 hours*7 |
| **Operation noise -> Normal** *3 | 42 dB [NORMAL] |
| **Operation noise -> Quiet** *2 | 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, with feet at shortest position) |
| **Dimensions (W x H x D) -> Width (not including protruding parts)** | Approx. 650 mm (25 19/32″) |

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|---|---|
| **Dimensions -> Width (including protruding parts)** | Approx. 650 mm (25 19/32″) |
| **Dimensions -> Height (not including protruding parts)** | Approx. 185 mm (7 9/32″) |
| **Dimensions -> Height (including protruding parts)** | Approx. 211 mm (8 5/16″) |
| **Dimensions -> Depth (not including protruding parts)** | Approx. 440 mm (17 5/16″) |
| **Dimensions -> Depth (including lens)** | Approx. 440 mm (17 5/16″) |
| **Weight** *11 | Approx. 23.0 kg (50.7 lbs) |
| **Operating environment -> Operating temperature** *12 | 0–45 °C (32–113 °F) |
| **Operating Environment -> Operating humidity (No condensation)** | 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™ |
| **Body Colour** | PT-MZ20KLBEJ-BlackPT-MZ20KLBE-BlackPT-MZ20KLBD8-BlackPT-MZ20KLWEJ-WhitePT-MZ20KLWE-White |
| **Gross Dimensions (W x H x D in mm)** | MZ20KLWEJ/MZ20KLBEJ: Approx. 860 x 354 x 588 mm<br>MZ20KLWE/MZ20KLBE: Approx. 848 x 334 x 576 mm |
| **Gross Weight (Kg)** | MZ20KLWEJ/MZ20KLBEJ: 30.6 kg (67.5 lbs)MZ20KLWE/MZ20KLBE: 28.8 kg (63.4 lbs) |
| **NFC** | Yes |
| **EAN** | MZ20KLWEJ: 5025232934140<br>MZ20KLBEJ: 5025232934157<br>MZ20KLWE: 8887549820182<br>MZ20KLBE: 8887549820212 |
| **Terminals -> DVI-D IN** | – |
| **Terminals -> DisplayPort™ IN** | – |
| **Operation noise -> Eco** *3 | – |
| **Active 3D** | No |
| **SDM** | No |

**Footnote Description**

1. 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.
2. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped.
3. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped.
4. 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.
5. ET-EMT800 is compatible with PT-MZ17KL/MZ14KL/MZ11KL only. It cannot be used with PT-MZ20KL.
6. 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. 4K/60p and 4K/50p signals input via DIGITAL LINK are supported in YPBPR 4:2:0 format only.
7. 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).
8. 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.
9. Average value. May differ depending on the actual unit.
10. 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 AJ-WM50 Series Wireless Module is attached.