



## 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

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World's Smallest, Lightest, and Quietest 20,000 lm LCD Projector

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Long-Life Energy-Saving Design Minimizes Problems

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Delivering up to 20,000 lm on AC 100-240 V, a World First

PT-MZ20KL

<https://eu.connect.panasonic.com/pl/en/projectors/pt-mz20-series/pt-mz20kl>

<b>Projector type</b>	LCD projectors
<b>Display method</b>	Transparent LCD panel (x 3, R/G/B)
<b>Display Device -&gt; Panel size</b>	25.4 mm (1.0 in) diagonal (16:10 aspect ratio)
<b>Display Device -&gt; Drive method</b>	Active matrix method
<b>Display Device -&gt; Number of pixels</b>	2,304,000 (1920 x 1200 pixels)
<b>Light source</b>	Laser diode
<b>Light output *1 *2 *3</b>	20,000 lm
<b>Light output (ANSI) *4</b>	20,000 lm
<b>Time until light output declines to 50 % -&gt; NORMAL *6</b>	20,000 hours [NORMAL]
<b>Time until light output declines to 50 % -&gt; QUIET *6</b>	20,000 hours [QUIET]
<b>Resolution</b>	WUXGA (1920 x 1200 pixels)
<b>Contrast Ratio (typ.) *3</b>	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] set to [3].)
<b>Screen size (diagonal)</b>	2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, 16:10 aspect ratio
<b>Center-to-corner zone ratio *3</b>	85%
<b>Lens</b>	Optional (no lens included with this model)
<b>Lens shift -&gt; Vertical (from center of screen)</b>	±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)
<b>Lens shift -&gt; Horizontal (from center of screen)</b>	±20 % (±19 % with ET-EMW200) (powered)
<b>Keystone correction range</b>	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-EMW300, ±15 ° with ET-EMW400/ET-EMW500). When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.
<b>Installation</b>	Ceiling/floor, front/rear, free 360-degree installation
<b>Terminals -&gt; SDI IN</b>	BNC x 1: 3G/HD-SDI input
<b>Terminals -&gt; HDMI™ IN</b>	HDMI™ 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input*4), CEC supported
<b>Terminals -&gt; SERIAL/MULTI-PROJECTOR SYNC IN</b>	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
<b>Terminals -&gt; SERIAL/MULTI-PROJECTOR SYNC OUT</b>	D-sub 9-pin (male) x 1 for link control (RS-232C compliant)
<b>Terminals -&gt; REMOTE 1 IN</b>	D-sub 9-pin (female) x 1 for external control (parallel)
<b>Terminals -&gt; REMOTE 2 IN</b>	M3 x 1 for wired remote control
<b>Terminals -&gt; REMOTE 2 OUT</b>	M3 x 1 for link control (for wired remote control)
<b>Terminals -&gt; DIGITAL LINK IN / LAN</b>	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*5)
<b>Terminals -&gt; LAN</b>	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink™ [Class 2], Art-Net)
<b>Terminals -&gt; DC OUT</b>	USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A)
<b>Terminals -&gt; USB TYPE A</b>	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module, for USB memory
<b>Power supply</b>	AC 100–240 V, 50/60 Hz
<b>Maximum power consumption *9 *10</b>	1100 W (11.2–4.6 A) (1120 VA)
<b>On-mode power consumption (Operating mode) -&gt; Normal *9</b>	[NORMAL] 1050 W (AC 100–120 V), 1000 W (AC 200–240 V)
<b>On-mode power consumption (Operating mode) -&gt; Quiet *9</b>	[QUIET] 630 W (AC 100–120 V), 610 W (AC 200–240 V)
<b>Cabinet materials</b>	Molded plastic
<b>Filter</b>	Included
<b>Estimated filter maintenance cycle</b>	approx. 20,000 hours*7
<b>Operation noise -&gt; Normal *3</b>	42 dB [NORMAL]
<b>Operation noise -&gt; Quiet *3</b>	36 dB [QUIET]
<b>Dimensions (W x H x D)</b>	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)
<b>Dimensions (W x H x D) -&gt; Width (not including protruding parts)</b>	Approx. 650 mm (25 19/32")
<b>Dimensions -&gt; Width (including protruding parts)</b>	Approx. 650 mm (25 19/32")
<b>Dimensions -&gt; Height (not including protruding parts)</b>	Approx. 185 mm (7 9/32")
<b>Dimensions -&gt; Height (including protruding parts)</b>	Approx. 211 mm (8 5/16")
<b>Dimensions -&gt; Depth (not including protruding parts)</b>	Approx. 440 mm (17 5/16")
<b>Dimensions -&gt; Depth (including lens)</b>	Approx. 440 mm (17 5/16")
<b>Weight *11</b>	Approx. 23.0 kg (50.7 lbs)
<b>Operating environment -&gt; Operating temperature *12</b>	0–45 °C (32–113 °F)
<b>Operating Environment -&gt; Operating humidity (No condensation)</b>	10–80 % (no condensation)

<b>Applicable software</b>	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro, Projector Network Setup Software, Smart Projector Control for iOS/Android™
<b>Footnote Description</b>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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/m<sup>3</sup> of particulate matter. Estimated time until light output decreases to 50 % will vary depending on environment.</li> <li>5. ET-EMT800 is compatible with PT-MZ17KL/MZ14KL/MZ11KL only. It cannot be used with PT-MZ20KL.</li> <li>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.</li> <li>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).</li> <li>8. Under conditions of 0.15 mg/m<sup>3</sup> of particulate matter. Estimated maintenance time varies depending on environment. Filter can be washed and reused up to two times.</li> <li>9. Average value. May differ depending on the actual unit.</li> <li>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.</li> </ol>