

# PT-MZ20KL

**LCD Projectors** 

AVAILABLE FROM DECEMBER 2022

# Meet the World's Smallest, Lightest, and Quietest 20,000 Im Projector<sup>1</sup>, Ready to Bring Engaging, High-Visibility Images to Large Spaces

1 As of February 2022, based on publicly available dimensions, weight, and operation noise values for 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.













	[Preliminary Specification] PT-MZ20KL
Light Output	20,000 lm <sup>2</sup>
Resolution	WUXGA (1920 x 1200 pixels, 16:10)

# • A Perfect Balance of High Brightness and Rich Color

As the world's smallest and lightest 20,000 lm projector¹, PT-MZ20KL delivers high performance harmonized for brightly lit spaces, all from a 23.3 kg³ (51.6 lbs) (TBD) body. Refined optical engine balances high brightness and vivid color with Pure White Generator and Dynamic Contrast deepening engagement and enhancing suitability for image rebroadcast.

# • Harmonious Integration into Hybrid Spaces

Note: Projector ships without a lens.

Unobtrusive design blends into hybrid learning and meeting spaces with quiet 36 dB<sup>4</sup> operation keeping attention on the content. PT-MZ20KL supports 4K signals<sup>5</sup> and CEC commands via HDMI<sup>®</sup>, Smart Projector Control app<sup>6</sup> with NFC function<sup>7</sup> and auto-focus<sup>8</sup>, and preactivated upgrade kits for Geo Pro<sup>9</sup> to automate edge-blending via camera<sup>10</sup>. Eight optional lenses including ET-EMU100 Ultra-Short-Throw Zoom Lens adapt projection to your space.

# • Stress-free Reliability and High Efficiency

Multi-Laser Drive Engine, sealed liquid cooling system, and shielded phosphor-wheel cooling system secure reliable operation. ECO Filter <sup>11</sup> and light-source don't need maintenance for 20,000 hours <sup>12</sup>, reducing TCO. Backup Input <sup>13</sup> and laser Failover Circuitry add insurance when display must not be interrupted.

#### Specifications (Tentative)

LCD projector  25.4 mm (1.0 in) diagonal (16:10 aspect ratio)  Transparent LCD panel (x 3, R/G/B)  Active matrix method  2,0304,000 (1920 x 1200 pixels)  Laser diode  20,000 lm  20,000 hours (NORMAL/QUIET)  WUXGA (1920 x 1200 pixels)  3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [3].)  2,03-12.7 m (80-500 in), 2.54-10.16 m (100-400 in) with ET-EMU100 (TBD), 16:10 aspect ratio  85 %  Doptional (no lens included with this model)  ±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)  ±20 % (±19 % with ET-EMU200) (powered)  Vertical: ±40 ° (±5 ° with ET-EMU100, ±40 * with ET-EMW200/ET-EMW300, ±22 ° with ET-EMW400/ET-EMW500), Horizontal: ±40 ° (±0 ° with ET-EMU100, ±8 ° with ET-EMW200/ET-EMW300) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] an
25.4 mm (1.0 in) diagonal (16:10 aspect ratio)  Transparent LCD panel (x 3, R/G/B)  Active matrix method  2,304,000 (1920 x 1200 pixels)  Laser diode  20,000 lm  20,000 hours (NORMAL/QUIET)  WUXGA (1920 x 1200 pixels)  3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [3].)  20,000 hours (NORMAL/QUIET)  WUXGA (1920 x 1200 pixels)  3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [3].)  20,301-2.7 m (80-500 in), 2.54-10.16 m (100-400 in) with ET-EMU100 (TBD), 16:10 aspect ratio  85 %  Optional (no lens included with this model)  ±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)  Vertical: ±40 ° (±5 % with ET-EMW200) (powered)  Vertical: ±40 ° (±5 % with ET-EMW1010, ±4 ° with ET-EMW200/ET-EMW300), ±22 ° with ET-EMW400/ET-EMW500), Horizontal: ±40 ° (±0 ° with ET-EMU100, ±8 ° with ET-EMW200/ET-EMW300)  When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.  Ceiling/floor, front/rear, free 360-degree installation
Active matrix method 2,304,000 (1920 x 1200 pixels) Laser diode 20,000 Im 20,000 hours (NORMAL/QUIET) WUXGA (1920 x 1200 pixels) 3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [3].) 2,003—12.7 m (80—500 in), 2.54—10.16 m (100—400 in) with ET-EMU100 (TBD), 16:10 aspect ratio 85 % Deptional (no lens included with this model) ±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered) ±20 % (±19 % with ET-EMU200) (powered) Vertical: ±40 ° (±5 ° with ET-EMU100, ±4 ° with ET-EMW200/ET-EMW300, ±22 ° with ET-EMW400/ET-EMW500), Horizontal: ±40 ° (±0 ° with ET-EMU100, ±8 ° with ET-EMW200/ET-EMW300) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.
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20,000 hours (NORMAL/QUIET)  WUXGA (1920 x 1200 pixels) 3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [3].) 2.03-12.7 m (80-500 in), 2.54-10.16 m (100-400 in) with ET-EMU100 (TBD), 16:10 aspect ratio 85 % Optional (no lens included with this model) ±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered) ±20 % (±19 % with ET-EMW200) (powered) Vertical: ±40 ° (±5 ° With ET-EMU100, ±40 ° with ET-EMW200/ET-EMW300, ±22 ° with ET-EMW400/ET-EMW500), Horizontal: ±40 ° (±0 ° with ET-EMU100, ±8 ° with ET-EMW200/ET-EMW300) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.
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3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [3].) 2.03–12.7 m (80–500 in), 2.54–10.16 m (100–400 in) with ET-EMU100 (TBD), 16:10 aspect ratio 85 %  Optional (no lens included with this model) ±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered) ±20 % (±19 % with ET-EMW200) (powered) ±20 % (±19 % with ET-EMW200) (powered) When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.  Ceilling/floor, front/rear, free 360-degree installation
2.03–12.7 m (80–500 in), 2.54–10.16 m (100–400 in) with ET-EMU100 (TBD), 16:10 aspect ratio  85 %  Optional (no lens included with this model)  ±60 % (±50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)  ±20 % (±19 % with ET-EMW200) (powered)  ### (#19 % with ET-EMW2
Dptional (no lens included with this model)  ±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)  ±20 % (±19 % with ET-EMW200) (powered)  vertical: ±40 ° (±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)  Were included the control of t
Optional (no lens included with this model)  ±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)  ±20 % (±19 % with ET-EMW200) (powered)  ±20 % (±19 % with ET-EMW200) (powered)  When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55 °.  Ceiling/floor, front/rear, free 360-degree installation
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RNC x 1: 3G/HD-SDI input
brox 1. our no obrinput
HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input <sup>4</sup> ), CEC supported
D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
D-sub 9-pin (male) x 1 for link control (RS-232C compliant)
D-sub 9-pin (female) × 1 for external control (parallel)
M3 x 1 for wired remote control
M3 x 1 for link control (for wired remote control)
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 input⁴)
RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net)
USB Connector (Type A) x 1 for power supply (Output 5 V/2 A)
USB Connector (Type A) x 1 for service use
AC 100-240 V, 50/60 Hz
1,150 W (11.5–5 A) (1,160 VA) (TBD)
1,100 W (TBD)
800 W (TBD)
Molded plastic
included (Estimated maintenance time: approx. 20,000 hours <sup>a</sup> )
42 dB (NORMAL), 36 dB (QUIET) (TBD)
Approx. 650 x 211° x 440 mm <sup>7</sup> (25 <sup>19</sup> /32″ x 8 5/16″° x 17 <sup>5</sup> /16″°) (TBD)
Approx. 23.3 kg (51.6 lbs) (TBD)
Operating temperature: 0-45 °C (32-113 °F)®, operating humidity: 10-80 % (no condensation)
Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro, Smart Projector Control for iOS/Android™
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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 [PICTURE MODE] is set to [INORMAL], [IJAYLIGHT VIEW] is set to [OFF], and [AUTO POWER SAVE] is set to [OFF]. 3. Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, Normal Mode, Dynamic Contrast [3], under conditions with 35 °C (95 °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. 4.4 K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. YPBP 4:2:0 format only for 4K/E0p signals input via DiGTAL LIMK. 5 Under conditions of 0.15 mg/m³ of particulate matter. Estimated maintenance time versies depending on environment. Tiller can be washed to reused up to two times. 6 With legs at shortest postion. 7 Not including protruding protruding particulate. Matter Estimated maintenance time versies depending on environment temperature becomes 35 °C (95 °F) or higher, the light output may be reduced to protect the projector.

#### 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-EMS60 (0.950–1.361) / ET-EMS60 (0.350–1.201) / ET-EMT50 (2.10–4.14:1) / ET-EMT850 (4.14–7.40:1) / Note: ET-EMS60 will be available from December 2022.

#### • Replacement Filter

ET-RFM100

#### • Ceiling Mount Bracket

ET-PKD120H (for high ceilings) / ET-PKD120S (for low ceilings) / ET-PKD130H (with 6-axis adjustment mechanism)

## Attachment for Ceiling Mount Bracket ET DYESO1B

ET-PKE301B

#### • DIGITAL LINK Switcher

ET-YFB200G Note: ET-YFB200G is not compatible with 4K signals.

#### • Digital Interface Box

ET-YFB100G

### Note: ET-YFB100G is not compatible with 4K signals.

#### • NFC Upgrade Kit

ET-NUK10

Note: Product availability may vary by country or region.

#### • Wireless Presentation System PressIT TY-WPS1 (basic set)

TY-WPS1 (basic set)

Note: visit panasonic.net/cns/prodisplays/pressit for more information.

#### • Early Warning Software

ET-SWA100 Series

\* Part number suffix may differ depending on the license type.

# **Panasonic**

