Panasonic
BUSINESS

PRELIMINARY
AS OF MARCH 2022

PT-**MZ20KL**
LCD Projectors

AVAILABLE FROM DECEMBER 2022

Meet the World's Smallest, Lightest, and Quietest 20,000 lm Projector[1], 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.

Note: product appearance is subject to change.

SOLID SHINE LASER **ACCEPTS 4K SIGNAL** **DIGITAL LINK SINGLE CABLE SOLUTION** **360°** **Geo. Pro**

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

Note: Projector ships without a lens.

• *A Perfect Balance of High Brightness and Rich Color*

As the world's smallest and lightest 20,000 lm projector[1], PT-MZ20KL delivers high performance harmonized for brightly lit spaces, all from a 23.3 kg[3] (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*

Unobtrusive design blends into hybrid learning and meeting spaces with quiet 36 dB[4] operation keeping attention on the content. PT-MZ20KL supports 4K signals[5] and CEC commands via HDMI®, Smart Projector Control app[6] with NFC function[7] and auto-focus[8], and preactivated upgrade kits for Geo Pro[9] to automate edge-blending via camera[10]. 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[11] and light-source don't need maintenance for 20,000 hours[12], reducing TCO. Backup Input[13] and laser Failover Circuitry add insurance when display must not be interrupted.

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. 2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 3 Tentative value as of February 2022. Weight of actual product may differ at time of release. 4 Specified values are tentative. In QUIET Mode. Operating noise is 42 dB in NORMAL Mode. Brightness is reduced when operating the projector in QUIET Mode. 5 Input signals are converted to the projector's display resolution upon playback. 4K/60p signals are supported via HDMI and DIGITAL LINK terminals. YPbPr 4:2:0 format only for 4K/60p signals input via DIGITAL LINK. 6 Check device compatibility at the App Store or the Google Play store. 7 Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate NFC function. See NFC Regional Compatibility List for details. 8 Some mobile devices do not support projector auto-focus function. 9 Geometry Manager Pro software for Windows® and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software. 10 Compatible cameras comprise Nikon D5200/D5300/D5500/D5600/D7500. 11 Filter cleaning cycle varies depending on environment. Filter can be washed and reused up to two times. 12 Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [2], temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of particulate matter). Replacement of parts other than the light source may be required in a shorter period. Estimated time until light output declines to 50 % varies depending on environment. Filter cleaning cycle varies depending on environment. Filter can be washed and reused up to two times. 13 Input signals to primary and backup inputs must be identical.

Specifications (Tentative)

Model		PT-MZ20KL
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)
	Drive method	Active matrix method
	Pixels	2,304,000 (1920 x 1200 pixels)
Light source		Laser diode
Light output[1, 2]		20,000 lm
Time until light output declines to 50 %[3]		20,000 hours (NORMAL/QUIET)
Resolution		WUXGA (1920 x 1200 pixels)
Contrast ratio[1]		3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [3].)
Screen size (diagonal)		2.03–12.7 m (80–500 in), 2.54–10.16 m (100–400 in) with ET-EMU100 (TBD), 16:10 aspect ratio
Center-to-corner zone ratio[1]		85 %
Lens		Optional (no lens included with this model)
Lens shift (from center of screen)	Vertical	±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)
	Horizontal	±20 % (±19 % with ET-EMW200) (powered)
Keystone correction range		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) 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
	HDMI IN	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input[4]), CEC supported
	SERIAL/MULTI PROJECTOR SYNC IN	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 (RS-232C compliant)
	REMOTE 1 IN	D-sub 9-pin (female) × 1 for external control (parallel)
	REMOTE 2 IN	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[4])
	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 service use
Power supply		AC 100–240 V, 50/60 Hz
Power consumption	Maximum power consumption	1,150 W (11.5–5 A) (1,160 VA) (TBD)
	On-mode power consumption (Light power) [NORMAL]	1,100 W (TBD)
	On-mode power consumption (Light power) [QUIET]	800 W (TBD)
Cabinet materials		Molded plastic
Filter		Included (Estimated maintenance time: approx. 20,000 hours[5])
Operation noise[1]		42 dB (NORMAL), 36 dB (QUIET) (TBD)
Dimensions (W x H x D)		Approx. 650 x 211[6] x 440 mm[7] (25 19/32″ x 8 5/16″[6] x 17 5/16″[7]) (TBD)
Weight[8]		Approx. 23.3 kg (51.6 lbs) (TBD)
Operating environment		Operating temperature: 0–45 °C (32–113 °F)[9], operating humidity: 10–80 % (no condensation)
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro, Smart Projector Control for iOS/Android™

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 [DYNAMIC], [LIGHT POWER] is set to [NORMAL], [DAYLIGHT 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 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. YPBPR 4:2:0 format only for 4K/60p signals input via DIGITAL LINK. 5 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. 6 With legs at shortest position. 7 Not including protruding parts. 8 Average value. May differ depending on the actual unit. 9 When using the projector at an altitude lower than 2,700 m (8,858 ft) above sea level, and the operating 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-EMW500 (0.950–1.36:1) / ET-EMS650 (1.35–2.10:1) /
  ET-EMT750 (2.10–4.14:1) / ET-EMT850 (4.14–7.40:1)
  Note: ET-EMS650 will be available from December 2022.
  ET-EMT750 and ET-EMT850 will be available from January 2023.

- **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-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)
  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.*

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For more information about Panasonic projectors, please visit:
Projector Global Website – https://panasonic.net/cns/projector/
Facebook – www.facebook.com/panasonicprojectoranddisplay
YouTube – www.youtube.com/user/PanasonicProjector

Note: Following the shift of the Panasonic Group to a holding company system, the Connected Solutions Company of the Panasonic Corporation has changed to Panasonic Connect Co., Ltd. as of April 1, 2022.

All information included here is valid as of March 2022.

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