Panasonic CONNECT

P R E L I M I N A R Y
AS OF OCTOBER 2022

PT-MZ20K Series
LCD Projectors

AVAILABLE FROM CY2023 1Q

*Note: Release date varies depending on country or region. **PT-MZ20KL available from CY2023 2Q.***

Meet the World's Smallest, Lightest, and Quietest 20,000 lm Projector[1], Ready to Bring Engaging, High-Visibility Images to Large Spaces

1 Light output of PT-MZ20KL. As of June 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.

White Models
Note: Product appearance is subject to change.

Black Models

[Preliminary Specification] PT-MZ20K Series

	PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL
Light Output	20,000 lm^3	16,500 lm^3 (TBD)	14,000 lm^3 (TBD)	11,000 lm^3 (TBD)
Resolution	WUXGA (1920 x 1200 pixels, 16:10)			

Note: Projectors ship without a lens.

• A Perfect Balance of High Brightness and Rich Color

Weighing just 23.3 kg[4] (51.6 lbs) (TBD), PT-MZ20K Series is the smallest and lightest projector in its class with up to 20,000 lm[1] brightness. Its refined optical engine balances high brightness and vivid color for clear visibility in well-lit rooms. In addition to Pure White Generator, Panasonic's Next Generation Dynamic Contrast technology deepens blacks in dark scenes and brightens content on dark backgrounds.

• Harmonious Integration into Hybrid Spaces

PT-MZ20K Series fits seamlessly into your AV system, delivering full brightness on standard AC 100–240 V power. It supports 4K signals[2], CEC command-compatible[5] HDMI® to link control with Wireless Presentation System PressIT[6] and other devices, Smart Projector Control app[7] with NFC[8] function, optional lenses including ET-EMU100 Ultra-Short-Throw Zoom Lens, and preactivated upgrade kits for Geo Pro[9]. Unobtrusive design harmonizes with your space, while quiet 36 dB[10] operation minimizes distractions.

• Stress-free Reliability and High Efficiency

Multi-Laser Drive Engine and Backup Input[11] support continuous projection even in the event of trouble. No light source and filter maintenance is required for 20,000 hours[12]. In addition, the projector is designed to have high brightness and low power consumption, so it can be used for a long time while considering the environment.

1 Light output of PT-MZ20KL. As of June 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 Input signals are converted to the projector's display resolution upon playback. 4K/60p signals are supported via HDMI and DIGITAL LINK terminals. YP8PR 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK. 3 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 4 Value is tentative. Weight of actual product may differ at time of release. 5 Depending on the connected CEC command-compatible device, the link control may not operate normally. 6 Wireless Presentation System PressIT is sold separately. Availability may vary by country or region. For more information, please visit https://panasonic.net/cns/prodisplays/pressit/. Only available in select regions. Please check with your local distributor for details. 7 Check device compatibility at the App Store or the Google Play store. 8 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. 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 For PT-MZ20KL. Noise levels for other models are PT-MZ17KL: 39 dB (NORMAL)/33 dB (QUIET); PT-MZ14KL/MZ11KL: 36 dB (NORMAL)/ 31 dB (QUIET). All values are tentative. Brightness is reduced when operating the projector in QUIET Mode. 11 Input signals to primary and backup inputs must be identical. 12 Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], Dynamic Contrast set to [3], 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.

Specifications (Tentative)

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)			
	Drive method	Active matrix method			
	Pixels	2,304,000 (1920 x 1200 pixels)			
Light source		Laser diode			
Light output [1,2]		20,000 lm	16,500 lm (TBD)	14,000 lm (TBD)	11,000 lm (TBD)
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 set to [3].)			
Screen size (diagonal)		2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, 2.03–12.7 m (80–500 in) with ET-EMT800 [4], 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: ±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 °.			
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 [5]), 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 [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 consumption [6]	Maximum power consumption	1,150 W (11.5–5 A) (1,160 VA) (TBD)	950 W (9.5 A–5 A) (960 VA) (TBD)	720 W (7.2 A–3 A) (730 VA) (TBD)	580 W (5.8 A–2.5 A) (590 VA) (TBD)
	On-mode power consumption (Operating mode) [NORMAL]	1,100 W (TBD)	900 W (TBD)	670 W (TBD)	530 W (TBD)
	[QUIET]	800 W (TBD)	630 W (TBD)	470 W (TBD)	370 W (TBD)
Cabinet materials		Molded plastic			
Filter		Included (Estimated maintenance time: approx. 20,000 hours [7])			
Operation noise [1]		42 dB (NORMAL), 36 dB (QUIET) (TBD)	39 dB (NORMAL), 33 dB (QUIET) (TBD)	36 dB (NORMAL), 31 dB (QUIET) (TBD)	
Dimensions (W x H x D)		Approx. 650 x 211 [8] x 440 mm [9] (25 $^{19}/_{32}$˝ x 8 $^{5}/_{16}$˝ [8] x 17 $^{5}/_{16}$˝ [9]) (TBD)			
Weight [10]		Approx. 23.3 kg (51.6 lbs) (TBD)			
Operating environment		Operating temperature: 0–45 ℃ (32–113 °F) [11], operating humidity: 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™			

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 set to [3], under conditions with 30 ℃ (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. 4 ET-EMT800 is compatible with PT-MZ17KL/MZ14KL/MZ11KL only. It cannot be used with PT-MZ20KL. 5 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. YP$_B$P$_R$ 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK. 6 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 ℃ (77 °F) operating temperature at an altitude of 700 m (2,297 ft). 7 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. 8 With legs at shortest position. 9 Not including protruding parts. 10 Average value. May differ depending on the actual unit. 11 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 ℃ (95 °F) or higher, the light output may be reduced to protect the projector. When optional AJ-WM50 Series Wireless Module is attached, operating temperature range becomes 0–40 ℃ (32–104 °F).

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)[1] / ET-EMS600 (1.35–2.10:1)[2] / ET-EMT750 (2.10–4.14:1)[1] / ET-EMT700 (2.10–4.14:1)[2] / ET-EMT850 (4.14–7.40:1)[1] / ET-EMT800 (4.14–7.40:1)[2]
  1 ET-EMS650, ET-EMT750, and ET-EMT850 will be available from CY2023 1Q.
  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**
  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 Module**
  AJ-WM50 Series
  Note: product availability may vary by country or region. The suffix at the end of the model number is omitted. Operating Temperature: 0–40 ℃ (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.

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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 October 2022.