

# Procure



**Powered By Choice,  
Driven By You.**

# PT-MZ20K Series

LCD Projectors

PT-MZ20KL / PT-MZ17KL  
PT-MZ14KL / PT-MZ11KL

Note: Model availability varies by country or region.



The World's Smallest, Lightest, and Quietest 20,000 lm<sup>1</sup> Projector

<sup>1</sup> Light output of PT-MZ20KL. As of March 2023, based on publicly available dimensions, weight, and operation noise values for LCD 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.

## ■ Main Features

### 01 | World's Smallest, Lightest, and Quietest 20,000 lm<sup>1</sup> LCD Projector

Introducing the smallest, lightest, and quietest LCD laser projector in its class with up to 20,000 lm<sup>1</sup>, compact 23 kg<sup>3</sup> (50.7 lbs) body, and quiet 42 dB<sup>4</sup> operation. Optimized optical engine delivers a 25 % increase in brightness over the 16,000 lm<sup>5</sup> PT-MZ16KL from the same body size, ensuring clear visibility in well-lit spaces.

### 02 | Long-Life Energy-Saving Design Minimizes Problems

Multi-Laser Drive Engine and Backup Input<sup>6</sup> enable continuous projection even in the event of trouble, and no light-source or filter maintenance is required for 20,000 hours<sup>7</sup>. The series efficiently delivers high brightness with MZ20KL achieving the lowest power consumption in its class<sup>8</sup> for sustainable operation.

### 03 | Delivering up to 20,000 lm<sup>5</sup> on AC 100–240 V, a World First<sup>9</sup>

PT-MZ20K Series is the industry's first<sup>9</sup> 20,000 lm-class projector to deliver full brightness on AC 100–240 V power, eliminating need to install a high-voltage power supply. It supports NFC function<sup>10</sup>, optional lenses including ET-EMU100 Ultra-Short-Throw Zoom Lens, and preactivated upgrade kits for Geo Pro<sup>11</sup>.



White Models



Black Models

Note: Projectors ship without a lens.

#### PT-MZ20K Series

	PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL
Light Output	20,000 lm <sup>5</sup>	16,500 lm <sup>5</sup>	14,000 lm <sup>5</sup>	11,000 lm <sup>5</sup>
Resolution	WUXGA (1920 x 1200, 16:10)			



## Light, Bright, Quiet, and Harmonious

As the smallest and lightest 20,000 lm<sup>1</sup> LCD laser projector in its class, MZ20K Series installs flexibly almost anywhere and delivers bright, immersive images in a wide range of applications, from conferences to edutainment. Its sophisticated body styling harmonizes with the spatial environment while quiet 42 dB<sup>2</sup> operation limits distractions, ideal for hybrid meeting rooms, museums, or lecture halls.

## Perfectly Balanced Brightness and Color

Together with high-efficiency optical engine for immersive high-contrast images in well-lit rooms, MZ20K Series features Pure White Generator, an original technology that minimizes loss of light energy and balances rich color and high brightness. Dynamic Contrast NX includes new scene-recognition circuitry that detects light and dark areas of the image more precisely, while Detail Clarity Processor 4 sharpens text edges for clear visibility.

<sup>1</sup> Light output of PT-MZ20KL. As of March 2023, based on publicly available dimensions, weight, and operation noise values for LCD 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. <sup>2</sup> PT-MZ20KL in NORMAL Mode. Noise levels of other models in NORMAL Mode are 38 dB for PT-MZ17KL and 35 dB for PT-MZ14KL/MZ11KL. <sup>3</sup> As of March 2023, based on LCD laser projectors with 20,000 lm brightness and above according to internal research. <sup>4</sup> Light output of PT-MZ20KL. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. <sup>5</sup> Geometry Manager Pro software for Windows<sup>®</sup> and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software. <sup>6</sup> 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. <sup>7</sup> Input signals are converted to the projector's display resolution upon playback. 4K/60p signals are supported via HDMI and DIGITAL LINK terminals. 4K/60p and 4K/50p signals input via DIGITAL LINK are supported in YPbPr 4:2:0 format only. <sup>8</sup> PT-MZ17KL/MZ14KL/MZ11KL are also compatible with previously released ET-EMS600/EM1700/EM1800 lenses. <sup>9</sup> As of March 2023, based on publicly available power consumption values for LCD laser projectors with 20,000 lm brightness and above according to internal research. <sup>10</sup> 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/m<sup>3</sup> 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. <sup>11</sup> Primary input (HDMI 1) and Backup input (HDMI 2) terminal assignment is fixed. Input signals to primary and backup inputs must be identical. <sup>12</sup> Wired LAN only.

## Specifications

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)							
	Pixels	2,304,000 (1920 x 1200 pixels)							
Light source	Laser diode								
Light output <sup>1,2</sup>	20,000 lm		16,500 lm		14,000 lm		11,000 lm		
Time until light output declines to 50 % <sup>3</sup>	20,000 hours (NORMAL/QUIET)								
Resolution	WUXGA (1920 x 1200 pixels)								
Contrast ratio <sup>4</sup>	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, 16:10 aspect ratio		2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, 2.03–12.70 m (80–500 in) with ET-EMT800 <sup>5</sup> , 16:10 aspect ratio						
Center-to-corner zone ratio <sup>1</sup>	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°.								
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 <sup>6</sup> ), 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) x 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 <sup>™</sup> compliant), 100Base-TX (Compatible with PLink <sup>™</sup> [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p signal input <sup>7</sup> )							
	LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink <sup>™</sup> [Class 2], Art-Net)							
	DC OUT	USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A)							
Power supply	USB	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module, for USB memory							
		AC 100–240 V, 50/60 Hz							
Power consumption <sup>8</sup>	Maximum power consumption	1100 W (11.2–4.6 A) (1120 VA)		950 W (9.6–4.0 A) (960 VA)		800 W (8.1–3.3 A) (810 VA)		615 W (6.3–2.7 A) (630 VA)	
	On-mode power [NORMAL] consumption (Operating mode) [QUIET]	1050 W (AC 100–120 V), 1000 W (AC 200–240 V)		880 W (AC 100–120 V), 850 W (AC 200–240 V)		720 W (AC 100–120 V), 690 W (AC 200–240 V)		540 W (AC 100–120 V), 520 W (AC 200–240 V)	
		630 W (AC 100–120 V), 610 W (AC 200–240 V)		580 W (AC 100–120 V), 560 W (AC 200–240 V)		460 W (AC 100–120 V), 445 W (AC 200–240 V)		360 W (AC 100–120 V), 340 W (AC 200–240 V)	
			Included (Estimated maintenance time: approx. 20,000 hours <sup>9</sup> )						
Filter									
Operation noise <sup>1</sup>	42 dB (NORMAL), 36 dB (QUIET)		38 dB (NORMAL), 32 dB (QUIET)		35 dB (NORMAL), 30 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, feet at shortest position)								
Weight <sup>8</sup>	Approx. 23.0 kg (50.7 lbs) / Approx. 22.5 kg (49.6 lbs)								
Operating environment	Operating temperature: 0–45 °C (32–113 °F) <sup>9</sup> , 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 <sup>12</sup>								

<sup>1</sup> Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. <sup>2</sup> 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. <sup>3</sup> 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. <sup>4</sup> ET-EMT800 is compatible with PT-MZ17KL/MZ14KL/MZ11KL only. It cannot be used with PT-MZ20KL. <sup>5</sup> 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. <sup>6</sup> 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). <sup>7</sup> 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. <sup>8</sup> Average value. May differ depending on the actual unit. <sup>9</sup> 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.

## 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-EMS600 (1.35–2.10:1)<sup>1</sup> / ET-EMT750 (2.10–4.14:1) / ET-EMT700 (2.10–4.14:1)<sup>1</sup> / ET-EMT850 (4.14–7.40:1) / ET-EMT800 (4.14–7.40:1)<sup>1</sup>

<sup>1</sup> 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: Availability may vary by country or region.

### • Wireless Module AJ-WM50 Series

Note: Availability may vary by country or region. The suffix at the end of the model number is omitted. Operating temperature: 0–40 °C (32–104 °F).

## ■ Other Features

- Supports 21:9 input signals
- Supports Art-Net DMX, PLink<sup>™</sup>, Crestron Connected<sup>™</sup> V2, Crestron XiO Cloud<sup>™</sup>, Extron XTP<sup>®</sup>, and IPv6<sup>12</sup>
- Direct Power Off function
- Quick Startup and Quick Off
- DiCOM Simulation Mode
- Multi-Screen Support System
- Multi-Unit Brightness and Color Control
- Waveform Monitor function
- Power management system