Panasonic



LCD Projectors

PT-MZ20K Series

Note: Product availability varies by country or region.

The World's Smallest, Lightest, and Quietest 20,000 lm¹ Projector



Note: Light output of PT-MZ20KL. As of July 2025, based on publicly available dimensions, weight, and operation noise values for LCD laser projectors with 20,000 lm brightness and above.

■ Main Features

Note: Projectors ship without a lens.

Black Models

01 | World's Smallest, Lightest, and Quietest 20,000 lm¹ LCD Projector

Introducing the smallest, lightest, and quietest LCD laser projector in its class with up to 20,000 lm¹, compact 23 kg² (50.7 lbs) body, and quiet 42 dB³ operation. Optimized optical engine delivers significantly higher brightness over the previous series from the same body size, ensuring clear visibility in well-lit spaces.

White Models

02 | Long-Life Energy-Saving Design Enhances Reliability

Multi-Laser Drive Engine and Backup Input⁴ enable continuous projection even in the event of trouble, and no light-source or filter maintenance is required for 20,000 hours⁵. The series efficiently delivers high brightness with MZ20KL achieving the lowest power consumption in its class⁶ for sustainable operation.

O3 | Delivering up to 20,000 lm¹ on AC 100–240 V, a World First⁷

PT-MZ20K Series is the industry's first⁷ 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 function⁸, optional lenses including ET-EMU100 Ultra-Short-Throw Zoom Lens, and preactivated upgrade kits for Geo Pro⁹.

PT-MZ20K Series							
	PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL			
Light Output	20,000 lm ¹ / 20,000 lm (ANSI) ¹⁰	16,500 lm ¹ / 16,500 lm (ANSI) ¹⁰	14,000 lm ¹ / 14,000 lm (ANSI) ¹⁰	11,000 lm ¹ / 11,000 lm (ANSI) ¹⁰			
Resolution	WUXGA (1920 x 1200 pixels)						











1 With ET-EMS650 Zoom Lens. The value varies depending on the lens. When [OPERATING MODE] is set to [NORMAL]. 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. 2 For the PT-M220KL. PT-M217KL and 35 dB for PT-M217KL and 35 dB for PT-M217KL and 35 dB for PT-M217KL. A Primary and backup terminal assignment is fixed. Input signals must be identical. 5 Around this time, light output will have decreased to approximately 50 % of its original level ([PICIURE MODE]: IDVNAMIC (DNTAMIC) and 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 replacement at this time is under conditions of 0.15 mg/m² of particulate matter. Steplacement 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 replacement at this time is under conditions of 0.15 mg/m² of particulate matter. Estimated maintenance time varies depending on environment. Filter can be washed and reused up to two times. 6 As of July 2025, based on publicly available power consumption values for LCD laser projectors with 20,000 lm brightness and above according to internal research. A So folly 2025, based on LCD laser projectors with 20,000 lm brightness and above according to internal research. A so folly 2025, based on LCD laser projectors with 20,000 lm brightness and above according to internal research. A so folly 2025, based on LCD laser projectors with 20,000 lm brightness and above according to internal research. A so folly 2025, based on projectors with 20,000 lm brightness and above according to internal research. A so folly 2025, based on LCD laser projectors with 20,000 lm brightness and above according to internal research. A so folly 2025, based on projectors with 20,000 lm brightness

Light, Bright, Quiet, and Harmonious

As the smallest and lightest 20,000 lm¹ LCD laser projector in its class², 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 operation limits distractions, ideal for hybrid meeting rooms, museums, or lecture halls.

Well 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.

Up to 20,000 lm1 on AC 100-240 V

MZ20KL is the first³ projector to deliver 20,000 lm¹ on AC 100-240 V from a standard AC outlet, expanding application possibilities without special power-supply construction. The series' evolved features enable resource-friendly installation: highlights include preactivated upgrade kits for Geo Pro⁴, Remote Preview LITE, NFC function⁵, Information Monitor, support for 4K input signals⁶, black-level adjustment for curved screens, and a wide selection of optional lenses.

Eco-Friendly Energy-Saving Design

MZ20K Series is highly efficient, with MZ20KL consuming less energy than any projector in its class7 for highly sustainable daily operation. Light-source and filter replacement is extended to 20,000 hours8, reducing waste. The projector is liquid cooled and features a dustresistant structure for stable operation. Multi-Laser Drive Engine limits brightness loss should a diode fail, while Backup Input⁹ function maintains image display if the primary signal is interrupted.

■ Other Features

- Supports 21:9 input signals
- Supports Art-Net DMX, PJLink™, Crestron Connected™ V2, Crestron XiO Cloud™, Extron XTP®, and IPv610
- 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

1 With ET-EMS650 Zoom Lens. The value varies depending on the lens. When [OPERATING MODE] is set to [NORMAL]. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of I With E1-EMS-D3 Coom Lens. Ine value varies depending on the lens. When (DPEIXALING MODE) Is set to (INCIRNAL). Measurement, measuring conditions, and method of notation all comply with ISCAPEL 21118: 2020 international standards. Value I all products when shipped. 2 Light output of pFT-MAZOKE. As of July 2025, based on publicly available dimensions, weight, and operation nots values for LCD laser projectors with 20,000 lm brightness and above a caroding to internal research. 4 Geometry Manager Pro software for Windows* and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software. 5 Projectors sold in some countries or regions require an E1-NUK10 Upgrade kit available from PASS to activate NFC function. See NFC Regional Compatibility List for details. 6 Input signals are converted to the projector's display resolution (1920 x 1200 pixels) upon playback. YPEPR 4.22 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK. 7 As of July 2025, based on publicly available power consumption values for LCD laser projectors with 20,000 lm brightness and above according to internal research. 8 Around this time, light output will have decreased to approximately 50 % of its original level (IPICTURE MODE): IDYNAMIC, IDYNAMIC, IDYNAMIC, IDYNAMIC CONTRAST) set to [3], temperature 30 °C [86 °F], elevation 700 m [2,29 7f] with 0.15 mg/m² of particulate matter). Replacement of parts other than the light source may be required in a shorter period. 515 mg/m² of particulate matter). Replacement of parts other than the light source may be required in a shorter period. 515 mg/m² of particulate matter. Estimated maintenance time varies depending on environment. Filter can be washed and reused up to two times. 9 Primary and backup terminal assignment is fixed. Input signals must be identical. 10 The optional AI-WM50 Series Wireless Module does not support IP46.

Model		PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL		
Projector typ	e	LCD projector	·	·	•		
LCD Panel Size		25.4 mm (1.0 in) diagonal (16:10 aspect ratio)					
D	Display system	Transparent LCD panel (x 3, R/G/B)					
Pixels		2,304,000 (1920 x 1200 pixels)					
ight source		Laser diode					
ight output ¹	1	20,000 lm ² / 20,000 lm (ANSI) ³	16,500 lm ² / 16,500 lm (ANSI) ³	14,000 lm ² / 14,000 lm (ANSI) ³	11,000 lm ² / 11,000 lm (ANSI) ³		
Time until light output declines to 50 %4		20,000 hours (NORMAL/QUIET)					
Resolution		WUXGA (1920 x 1200 pixels)					
Contrast ratio ²		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 ⁵ , 16:10 aspect ratio					
Center-to-co	rner zone ratio ²	85 %					
.ens		Optional (no lens included with this model)					
ens shift	Vertical	±60 % (+50 %, -20 % with ET-EMU100, ±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)					
from center of	f screen) Horizontal	±20 % (±19 % with ET-EMW200) (powered)					
Keystone cor	rection 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					
erminals SI	DIIN	BNC x 1: 3G/HD-SDI input					
H	DMI™ 1/2 IN	HDMI* 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input®), CEC supported					
SERIAL/MULTI PROJECTOR SYNC IN		D-sub 9-pin (female) x 1 for external control (RS-232C compliant)					
SE	ERIAL/MULTI PROJECTOR SYNC OUT	D-sub 9-pin (male) x 1 for link control (RS-232C compliant)					
RI	EMOTE 1 IN	D-sub 9-pin (female) × 1 for external control (parallel)					
RI	EMOTE 2 IN	M3 x 1 for wired remote control					
RI	EMOTE 2 OUT	M3 x 1 for link control (for wired remote control)					
D	IGITAL 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 ⁶)					
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		Single-phase AC 100-240 V, 50/60 Hz					
ower	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)		
co	consumption	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)		
	(Operating mode) [QUIET]	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)		
ilter		Included (Estimated maintenance time:	approx. 20,000 hours ⁸)		·		
Operation noise ²		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					
Neight ⁹							
Operating en	environment Operating temperature: 0-45 °C (32-113 °F) °O, operating humidity: 10-80 % (no condensation)						
Applicable so	oftware	Logo Transfer Software, Multi Monitorir	ng & Control Software, Geometry Manager	Pro, Projector Network Setup Software, S	smart Projector Control for iOS/Android™		

When [OPERATING MODE] is set to [NORMAL]. This is the value when the Zoom lens (Model No. EF EMS650) is used. The value varies depending on the lens. 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. 3 Measurement, measuring condition, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. 4 Around this time, light output will have decreased by approximately 50%. IECE-0287: 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/m² of particulate matter. Estimated time until light output decreases to 50 % will vary depending on environment. 5 FE-EMT800 is compatible with FF-MATY/EMZ14KL/MZ11KL only. It cannot be used with PF-MAZDIC. 6 4K signate are converted to the projectors resolution (1920 or 1920 publes) upon projection. 4Ke/50 and 4Kr/50 signate input via DiCIPAL IUNK are supported in YP8P8 4:20 format only. 7 Measurement, measuring conditions, and method of notation all comply with SO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,97 ft). 8 Under conditions of 0.15 mg/m² of particulate matter. Estimated maintenance time varies depending on environment. Filter can be washed and reused up to two times. 9 Average value. May differ depending on the actual unit. 10 Note that the projector is 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 is used at altitudes below 1,400 m (4,593 ft) and 40 °C (104 °F) when the optional AF-WM50 Series Wireless Module is attached.

between 1,400 m (4,593 ft) and 40 °C (104 °F) when the optional AF-WM50 Series Wireless Module is attached.

Optional Accessories

- 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) / ET-EMT750 (2.10–4.14:1) / ET-EMT700 (2.10-4.14:1)1 / ET-EMT850 (4.14-7.40:1)/
- TE-EMT800 (4.14–7.40:1)¹

 1 EF-EMS600, EF-EMT700, and EF-EMT800 are compatible with PT-MZ17KL/MZ14KL/MZ11KL only. They cannot be used with PT-MZ20KL.
- Replacement Filter

- 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 FT-PKF301B
- ET-FMP50 Series Media Processors ET-FMP50 / ET-FMP20

Note: For more information, please visit: https://docs.connect.panasonic.com/projector/products/fmp50/.

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).

• Wireless Presentation System PressIT

TY-WPS2 (basic set)

Note: Visit https://docs.co. for more information. nect.panasonic.com/prodisplays/products/ty-wps2/

• NFC Upgrade Kit

FT-NUK10

Note: Availability may vary by country or region.

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