Panasonic CONNECT

PT-MZ20K Series

LCD Projectors

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



1 Light output of PT-MZ2OKL. As of November 2022, 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

○ 1 세계에서 가장 가볍고, 작고, 조용한 20,000lm급 LCD 프로젝터

컴팩트한 23kg(50.7lbs) 바디, 조용한 42dB 작동소음의 동급 최강의 경량 20,000루멘 LCD 레이저 프로젝터를 소개합니다.

최적화된 광학 엔진 탑재로 16,000lm 급 PT-MZ16KL와 동일한 본체 크기로 25% 향상된 밝기를 제공하며 조명이 밝은 공간에서도 선명한 투사를 보장합니다.

○2 │에너지 절약 설계로 문제 발생을 최소화

멀티 레이저 광학 엔진 및 백업 입력신호 지원으로 문제 발생 시에도 지속적인 투사가 가능하며, 20,000시간 동안 광원 및 필터의 유지보수 없이 투사가 가능합니다. 또한, 이번 시리즈의 고휘도 프로젝터 MZ20KL 모델은 친환경 프로젝션을 실현하기 위해 동급 기종 중 최저 소비전력을 달성 하였습니다.

() 3 | 세계 최초 AC100-240V로 최대 20,000lm 밝기 구현

PT-MZ20K 시리즈는 업계 최초로 AC 100~240V 전원으로 최대 밝기투사를 지원하는 20,000lm급 프로젝터로 고전압 전원 공급 설계가 불필요합니다.

또한, NFC 기능, ET-EMU100 초단초점 줌 렌즈를 포함한 다양한 옵션 렌즈 라인업 및 지오프로용 업그레이드 키트 호환 등을 지원합니다.















Black Models

PT-MZ20K Series

	PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL	
Light Output	20,000 lm ⁵	16,500 lm⁵	14,000 lm⁵	11,000 lm ⁵	
Resolution	WUXGA (1920 x 1200, 16:10)				

1 Light output of PT-MZ20KL. As of November 2022, based on publicly available dimensions, weight, and operation noise values for LCD laser projectors with 20,000 Im 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 are supported in YP8PR 4:2:0 format only. 3 For PT-MZ20KL. PT-MZ17KL/MZ14KL/MZ11KL. 5 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21.2.5 kg (49.6 lbs). 4 PT-M220KL in NORMAL Mode. Noise levels of other mode 6F in NORMAL Mode are 38 d B for PT-MZ14KL/MZ11KL. 5 Measurement, measuring conditions, and method notation all comply with ISO/IEC 21.2.5 kg (49.6 lbs). 4 PT-M220KL in NORMAL Mode. Noise levels of other mode 6F in NORMAL Mode are 38 d B for PT-MZ14KL/MZ11KL. 5 Measurement, measuring conditions, and method notation all comply with ISO/IEC 21.2.5 kg (49.6 lbs). 4 PT-M220KL in NORMAL Mode. Noise levels of other mode 6F in NORMAL Mode are 38 d B for PT-MZ14KL/MZ11KL. 5 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21.2.5 kg (49.6 lbs). 4 PT-M220KL in NORMAL Mode. Noise levels of other mode of the NORMAL Mode. Noise levels of other mode of the NorMAL Mode. Noise levels of other mode of the NoRMAL Mode. Noise levels of other mode of the NorMAL Mode. Noise levels of the NorM

동급 대비 가장 밝고 조용한 경량 프로젝터

시장내 동급 제품 중 가장 작고 가벼운 20,000루멘 LCD 레이저 프로젝터인 MZ20K 시리즈는 어떠한 장소에서든 유연한 설치가 가능하며 회의에서 에듀테인먼트에 이르기까지 다양한 환경에서 밝고 몰입감 있는 투사를 제공합니다. 세련된 본체 스타일은 공간 환경과 조화를 이룹니다. 또한, 42dB의 조용한 작동소음으로 소음이 제한된 환경에서도 활용이 가능하며, 하이브리드 회의실, 박물관 또는 강의실에서 사용에 적합합니다.

완벽하게 균형 잡힌 밝기와 색상

MZ20K 시리즈는 고효율 광학 엔진 탑재로 밝은 투사환경에서도 몰입형 고대비 이미지 투사를 구현하는 동시에 광원 손실을 최소화하고 풍부한 색상과 높은 밝기의 균형을 유지하는 파나소닉의 기술인 Pure White Generator를 탑재하였습니다. Dynamic Contrast NX에는 이미지의 밝은 영역과 어두운 영역을 보다 정확하게 감지하는 새로운 장면 인식 회로가 탑재되어 있으며, 상세 선명도 프로세서 탑재로 텍스트를 선명하게 표현합니다.

세계 최초, AC 100-240V로 구동 가능한 20,000lm 프로젝터

MZ20KL은 표준 AC 콘센트에서 AC 100-240V로 20,000lm를 투사가 가능한 세계 최초의 프로젝터로 특별한 전원 공급 장치 설계가 없이도 운용이 가능하며, 업데이트된 기능으로 손쉬운 설치 및 운영이 가능합니다.

주요 기능으로는 Geo Pro 업그레이드 키트, Remote Preview LITE, NFC 기능, 정보 모니터, 4K 입력 신호 지원, 곡면 스크린을 위한 블랙 레벨 조정 및 8개의 옵션 렌즈가 있습니다.

친환경적인 설계

MZ20K 시리즈는 지속가능한 투사를 위해 동급 프로젝터 대비 적은 에너지를 소비하여 투사가 가능하며, 광원 및 필터 교체 시간이 20,000시간으로 연장되어 불필요한 낭비를 최소화 하였습니다. 또한, 수냉식 쿨링 시스템 장착 및 안정적인 작동을 위한 방진 구조를 갖추고 있습니다. Multi-Laser Drive Engine 설계로 다이오드 오류 발생 시 밝기 손실을 최소화하고 추가 백업 입력 기능으로 기본 신호가 중단된 경우에도 지속적인 이미지 투사가 가능합니다.

Other Features

- Supports Art-Net DMX, PJLink™, Crestron Connected™ V2, Crestron XiO Cloud™, Extron XTP®,
- 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 Light output of PT-MZ20KL. As of November 2022, based on publicly available dimensions, weight, and operation noise values for LCD laser projectors with 20,000 Im 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 PT-M220KL in NORMAI Mode. Noise levels of other models in NORMAI Mode are 38 dB for PT-M217KL and 35 dB for PT-M217KL VM211KL. 3 k of as of November 2022, based on LCD laser projectors with 20,000 Im brightness and above according to internal research. 4 Light output of PT-M220KL. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 5 Geometry Manager Pro software for Virindows* and prescribated upgrade kits require projector registration. Visit PASS to activate INC function. See MYC function See MYC f

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Model		PT-MZ20KL	PT-MZ17KL	PT-MZ14KL	PT-MZ11KL		
Projector typ		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	1, 2	20,000 lm	16,500 lm	14,000 lm	11,000 lm		
Time until light output declines to 50 %3		20,000 hours (NORMAL/QUIET)					
Resolution		WUXGA (1920 x 1200 pixels)					
Contrast ratio	o ¹	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] set to [3].)					
Screen size (c	diagonal)	2.03–15.24 m (80–600 in), 2.54–10.16 m 2.03–15.24 m (80–600 in), 2.54–10.16 m (100–400 in) with ET-EMU100, 16:10 aspect ratio 2.03–12.70 m (80–500 in) with ET-EMT800*, 16:10 aspect ratio					
Center-to-co	rner zone ratio¹	85 %					
Lens		Optional (no lens included with this model)					
Lens 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	orrection 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-EM ±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 SI	DIIN	BNC x 1: 3G/HD-SDI input					
HD	IDMI 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 SERIAL/MULTI PROJECTOR SYNC OUT REMOOTE 1 IN REMOTE 2 IN REMOTE 2 OUT DIGITAL LINK		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) x 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 input ⁵)					
L	AN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink* [Class 2], Art-Net)					
D	OC OUT	USB connector (Type A) x 1 for power supply (Output: 5 V / 2 A)					
U	ISB	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	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)		
consumption ⁶	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)		
Filter		Included (Estimated maintenance time: approx. 20,000 hours?)					
Operation noise ¹		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 ⁸	Approx. 23.0 kg (50.7 lbs) Approx. 22.5 kg (49.6 lbs)						
Operating en	ng environment Operating temperature: 0–45 °C (32–113 °F)°, operating humidity: 10–80 % (no condensation)						
Applicable so	oftware	Logo Transfer Software, Multi Monitoring	& Control Software, Early Warning Software	, Geometry Manager Pro, Projector Network Se	tup Software, Smart Projector Control for iOS/Androi		

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 [IOPERATING 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. 3 Around this time, light output will have decreased by approximately 50%, IEC6.2087: 2008 Broadcast contents, NORMAL Mode, [DYNAMIC CONTRAST] set to [3], under conditions with 30 °C (66 °F), 700 m (2,297 ft) above sea level, (230 ft) above sea level, (230 ft) above sea level, (230 ft) approximately 50%, IEC6.2087: 2008 Broadcast contents, NORMAL Mode, [DYNAMIC CONTRAST] set to [3], under conditions with 30 °C (66 °F), 700 m (2,297 ft) above sea level, (230 ft) and 0.15 mg/m² of particulate matter. Estimated minimately with PF-M2T/RK/M2T4K/M2T4K/M2T1K/L only. It cannot be used with PF-M220KL. 5 4K signals are converted to the projector's resolution of 15 mg/m² of particulate matter. Estimated maintenance time varies depending on environment. Filter can be washed and reused up to two times. 8 Average value. May differ depending on the actual unit. 9 Note that the projector cannot be used at altitudes 2700 m (8,858 ft) or higher above sea level. In the following operating environments, light output, when the projector is used at altitudes 150 m (4,593 ft) and an admost temperature 35 °C (95 °F) or higher. The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) when the optional AI-VMSO Series Wireless Module is attached.

추가 악세사리

- 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-EM/S00 (1.35-2.10:1) ET-EM/T50 (1.35-2.10:1) ET-EM/S00 (1.35-2.10:1) ET-EM/T50 (2.10-4.14:1) / ET-EM/T50 (2.10-4.14:1) / ET-EM/T80 (4.14-7.40:1) / ET-EM/T800 (4.14-7.40:1) /
- I ET-EMS650, ET-EMT750, and ET-EMT850 will be available from CY2023 Q1. 2 ET-EMS600, ET-EMT700, and ET-EMT800 are compatible with PT-MZ17KL/MZ14KL/MZ11KL only. They cannot be mpatible with r i -... sed 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 FT-PKF301B
- DIGITAL LINK Switcher ET-YFB200G
- 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).
- 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.

Panasonic CONNECT

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