Panasonic
BUSINESS

PT-MZ16K Series

LCD Projectors

PT-**MZ16KL**
PT-**MZ13KL**
PT-**MZ10KL**

NOVEMBER / 2019

SOLID SHINE LCD Boosts Brightness While Reducing Your Workload for an Effortless Learning Experience

■ Main Features

01 Clear, Long-Lasting Viewing for Efficiency and Comfort

Harnessing a Multi-Laser Drive Engine, 1-inch LCDs, and Pure White Generator, viewers can enjoy vivid images at up to 16,000 lm*[1].

02 High Reliability for Fewer Callouts

Our first LCD projectors featuring liquid-cooled lasers, discrete sealed phosphor-wheel cooling, and backup-input switching maintain reliable projection in tough conditions.

03 Simplified Installation Streamlines Your Workflow

LCD projectors are first with updated Smart Projector Control Ver. 2.0*[2] app and Geo Pro software. 4K/60p signal input*[3] and new lenses seamlessly integrate projectors into any space and A/V infrastructure.

White Models
** Lens sold separately.*

Black Models

PT-MZ16K Series

	PT-MZ16KL	PT-MZ13KL	PT-MZ10KL
Light Output	16,000 lm	13,000 lm	10,000 lm
Resolution	WUXGA		

**1 Brightness is for PT-MZ16KL. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. *2 For information on Smart Projector Control app for iOS and Android™, please see our website at www.panasonic.net/cns/projector/products/smartpjcontrol/ *3 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals comprise DIGITAL LINK/HDMI®.*

Pure White Generator for High Brightness and Color

Pure White Generator arrests brightness loss with a patented multi-reflection engine that more efficiently gathers blue laser light. This helps to enhance color accuracy for natural, true-to-life color expression.

Liquid-Cooled Multi-Laser Drive Engine with Failover

Multi-Laser Drive Engine is backed by new liquid-cooling and laser failover circuitry. If a laser diode fails, only the affected series is bypassed and not the entire module. Projection continues with imperceptible brightness loss. Enjoy superior reliability and peace of mind.

Reliable Phosphor-Wheel Design

The PT-MZ16K Series has dedicated Panasonic-original sealed cooling for the heat-resistant phosphor wheel. The assembly is extensively shielded to protect against dust intrusion for long-life brightness.

Supports Geo Pro Software

Introducing the first LCD projectors to support Geometry Manager Pro. The software expands on the projector's built-in adjustments with Free Grid geometry functions. Optional upgrade kits add creative masking (ET-UK20) and Auto Screen Adjustment for multiple curved or planar screens via a compatible camera (ET-CUK10).

Other Features

- Smart Projector Control Ver. 2.0 features NFC function* and projector auto-focus via smartphone camera
- Information Monitor screen displays operational data
- Flexible backup input-switching function for any two inputs
- Optional lenses eliminate throw-ratio gaps
- Lenses feature sensor-based AFO smart auto-focus
- Separate DIGITAL LINK and LAN terminals
- 3,000,000:1 Dynamic Contrast
- Daylight View 3 and Detail Clarity Processor 4

** In some countries, projector activation is required to enable NFC function. Visit www.panasonic.net/cns/projector/products/smartpjcontrol/regional.html for a list of countries where an optional ET-NUK10 Upgrade Kit can be obtained to enable NFC function. If NFC function is disabled, the app's NFC screen is displayed, but reading/writing data is not possible. Requires iPhone 7 or later and iOS 11 or later. Writing capability is not supported on iOS devices.*

Specifications

Model		PT-MZ16KL	PT-MZ13KL	PT-MZ10KL
Projector type		LCD projectors		
LCD panel	Panel size	25.4 mm (1.0 in) diagonal (16:10 aspect ratio)		
	Pixels	2,304,000 (1920 x 1200) pixels x 3		
Light source		Laser diodes		
Light output*1		16,000 lm	13,000 lm	10,000 lm
Time until light output declines to 50 %*2		20,000 hours (NORMAL)		
Resolution		1920 x 1200 pixels		
Contrast ratio*1		3,000,000:1 (Full On/Full Off) * With [Dynamic Contrast] set to [3]		
Screen size [diagonal]		2.03–12.7 m (80–500 in), 16:10 aspect ratio		
Center-to-corner zone ratio*1		85 %		
Lens		Optional powered zoom lenses		
Lens shift	Vertical (from center of screen)	±60 % (±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)		
	Horizontal (from center of screen)	±20 % (±19 % with ET-EMW200) (powered)		
Keystone correction range		Vertical: ±40° (±14° with ET-EMW200/ET-EMW300, ±22° with ET-EMW400/ET-EMW500), Horizontal: ±15° (±8° with ET-EMW200/ET-EMW300)		
Keystone correction range with optional ET-UK20 Upgrade Kit		Vertical: ±40° (±14° with ET-EMW200/ET-EMW300, ±22° with ET-EMW400/ET-EMW500), Horizontal: ±40° (±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 1 (Compatible with HDCP 2.2, Deep Color, 4K/60p signal input*3)		
	DVI-D IN	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)		
	RGB IN	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)		
	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 2.2, Deep Color, 4K/60p signal input*3)		
	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 (Output 5 V/2 A)		
Power supply		AC 100–240 V, 50/60 Hz		
Power consumption		1,050 W	800 W	640 W
Filter		Included (Estimated maintenance time: approx. 20,000 hours)		
Operation noise*1		38 dB (NORMAL) / 32 dB (Quiet)	35 dB (NORMAL) / 30 dB (Quiet)	35 dB (NORMAL) / 30 dB (Quiet)
Dimensions (W x H x D)		650 x 185*4 x 440 mm (25 19/32" x 7 9/32"*4 x 17 21/64") (Without lens) (Not including protruding parts)		
Weight*5		Approx. 22.3 kg (49.2 lbs)		
Operating environment		Operating temperature: 0–45 °C (32–113 °F)*6; Operating humidity: 10–80 % (no condensation)		
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control for iOS/Android™		

**1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. *2 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [2], 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 declines to 50 % varies depending on environment. *3 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI®. *4 With legs at shortest position. *5 Average value. May differ depending on the actual unit. *6 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-EMW200 (0.480–0.550:1) (Available from April 2020) / ET-EMW300 (0.550–0.690:1) (Available from January 2020) / ET-EMW400 (0.690–0.950:1) / ET-EMW500 (0.950–1.36:1) (Available from January 2020) / ET-EMS600 (1.35–2.10:1) / ET-EMT700 (2.10–4.14:1) (Available from December 2019) / ET-EMT800 (4.14–7.40:1) (Available from January 2020)
- **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
- **Replacement Filter**
  ET-RFM100
- **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.*
- **Geometry Manager Pro Software Upgrade Kit**
  ET-UK20
- **Auto Screen Adjustment Upgrade Kit**
  ET-CUK10/ET-CUK10P
- **Early Warning Software**
  ET-SWA100 Series
  Note: Part number suffix may differ depending on the license type.
  ** Multi Monitoring & Control Software Ver. 2.0 or later is required. Please download from the following website: https://panasonic.net/cns/projector/download/application/*
- **NFC Upgrade Kit**
  ET-NUK10
  Note: Product availability may vary by country or region.

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

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