



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*² maintain reliable projection in tough conditions.

03 | Simplified Installation Streamlines Your Workflow

LCD projectors are first with updated Smart Projector Control Ver. 2.0*³ app and Geo Pro software. 4K/60p signal input*⁴ 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 Combination of primary/secondary input terminals is limited. Switching to secondary (or primary) input occurs automatically when the input signal for primary (or secondary) input is disrupted. The Backup Input Setting is enabled only when the input signal to primary and secondary terminals is the same. *3 For information on Smart Projector Control app for iOS and Android™, please see our website at www.panasonic.net/cns/projector/products/smartprojector/ *4 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.

^{*1} In some countries, projector activation is required to enable NFC function. Visit www.panasonic.net/cns/projector/products/smartjcontrol/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. ^{*2} Combination of primary/secondary input terminals is limited. Switching to secondary (or primary) input occurs automatically when the input signal for primary (or secondary) input is disrupted. The Backup Input Setting is enabled only when the input signal to primary and secondary terminals is the same.

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) 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™ 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)
Dimensions (W x H x D)	650 x 211 ^{**} x 440 mm (25 19/32" x 8 5/16" ^{**} x 17 21/64") (Without lens)		
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 [3], under conditions with 35 °C (95 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m³ of particulate matter. Panasonic recommends cleaning or checkup at point of purchase after about 20,000 hours. Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. Estimated maintenance time 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) / ET-EMW300 (0.550–0.690:1) / ET-EMW400 (0.690–0.950:1) / ET-EMW500 (0.950–1.36:1) / ET-EMS600 (1.35–2.10:1) / ET-EMT700 (2.10–4.14:1) / ET-EMT800 (4.14–7.40:1)

• 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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