



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.

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*1 and projector auto-focus via smartphone camera
- Information Monitor screen displays operational data
- Flexible backup input-switching function for two inputs*2
- 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

*1 In some countries, projector activation is required to enable NFC function. Visit www.panasonic.net/cns/projector/products/smartprojector/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 | 25.4 mm (1.0 in) diagonal (16:10 aspect ratio) | | |
| Panel size | 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/Y/PbPr/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) | 35 dB (NORMAL) / 30 dB (Quiet) |
| Dimensions (W x H x D) | 650 x 211*4 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 [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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Projector Global Website – panasonic.net/cns/projector
Facebook – www.facebook.com/panasonicprojectoranddisplay
YouTube – www.youtube.com/user/PanasonicProjector

All information included here is valid as of March 2020.

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