



**Laser light source, 3LCD, 13 000 lumens, WUXGA projector**

## PT-MZ13KL

Designed to reduce the AV managers workload in businesses and universities.

### Key Features

Laser 3LCD, 13 000 lumens, WUXGA


Silent (35dB in normal mode) and light construction (22kg) is ideal for lecture theatres and seminar rooms


20 000 hours maintenance-free operation due to the dustproof construction and long-lasting eco filter

Triple drive engine ensures non-stop operation with a failover function. A secondary backup signal input and the monitoring function reduce the impact of potential technical faults.

Flexible installation with a choice of seven optional zoom lenses. Easy setup with Geo Pro software and DIGITAL LINK function



 Product Image : PT-MZ13K

 Product Image : PT-MZ13K



PT-MZ13KL

<https://ap.connect.panasonic.com/th/en/products/projectors/pt-mz13kl>

Feature	Specification
<b>Projector type</b>	LCD projectors
<b>Light Source</b>	Laser diodes
<b>Light output*1</b>	13,000 lm
<b>Time until light output declines to 50 %*2</b>	20,000 hours (NORMAL)
<b>Resolution</b>	1920 x 1200 pixels
<b>Contrast Ratio*1</b>	3,000,000:1 (Full On/Full Off) * With [Dynamic Contrast] set to [3]
<b>Screen size [diagonal]</b>	2.03-12.7 m (80-500 in), 16:10 aspect ratio
<b>Center-to-corner zone ratio*1</b>	85 %
<b>Lens</b>	Optional powered zoom lenses
<b>Lens shift   Vertical (from center of screen)</b>	±60 % (±40 % with ET-EMW200, ±50 % with ET-EMW300) (powered)
<b>Lens shift   Horizontal (from center of screen)</b>	±20 % (±19 % with ET-EMW200) (powered)
<b>Keystone Correction Range</b>	Vertical: ±40° (±14° with ET-EMW200/ET-EMW300, ±22° with ET-EMW400/ET-EMW500), Horizontal: ±15° (±8° with ET-EMW200/ET-EMW300)
<b>Keystone correction range with optional ET-UK20 Upgrade Kit</b>	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°.
<b>Installation</b>	Ceiling/floor, front/rear, free 360-degree installation
<b>Terminals   SDI In</b>	BNC x 1: 3G/HD-SDI input
<b>Terminals   HDMI In</b>	HDMI 19-pin x 1 (Compatible with HDCP 2.2, Deep Color, 4K/60p signal input*3)
<b>Terminals   DVI-D In</b>	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)
<b>Terminal   RGB In</b>	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)
<b>Terminals   Serial/Multi Projector Sync In</b>	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
<b>Terminals   Serial/Multi Projector Sync Out</b>	D-sub 9-pin (male) x 1 for link control (RS-232C compliant)
<b>Terminals   REMOTE 1 IN</b>	D-sub 9-pin (female) x 1 for external control (parallel)
<b>Terminals   Remote 2 In</b>	M3 x 1 for wired remote control
<b>Terminals   Remote 2 Out</b>	M3 x 1 for link control (for wired remote control)
<b>Terminals   LAN</b>	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net)
<b>Terminals   DIGITAL LINK</b>	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBase™ compliant), 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net, HDCP 2.2, Deep Color, 4K/60p signal input*3)
<b>Terminals   DC Out</b>	USB Connector (Type A) x 1 (Output 5 V/2 A)
<b>Power Supply</b>	AC 100-240 V, 50/60 Hz
<b>Power Consumption</b>	800 W
<b>Cabinet Materials</b>	Molded plastic
<b>Filter</b>	Included (Estimated maintenance time: approx. 20,000 hours)
<b>Operation noise*1</b>	35 dB (NORMAL) / 30 dB (Quiet)
<b>Dimensions (W x H x D)</b>	650 x 211*4 x 440 mm (25 19/32" x 8 5/16" *4 x 17 21/64" ) (Without lens)
<b>Weight*5</b>	Approx. 22.3 kg (49.2 lbs)
<b>Operating Environment</b>	Operating temperature: 0-45 °C (32-113 °F)*6; Operating humidity: 10-80 % (no condensation)
<b>Applicable Software</b>	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™
<b>Note</b>	*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/m <sup>3</sup> 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.
<b>Light output</b>	13,000 lm
<b>LCD Panel   Panel Size</b>	25.4 mm (1.0 in) diagonal (16:10 aspect ratio)
<b>LCD Panel   Number of pixels</b>	2,304,000 (Pixels 1920 x 1200) pixels x 3