



**New LCD Laser Projectors Deliver Well-Balanced Color and Brightness with Seamless Integration into Corporate, Education, and Museum Environments**

## **PT-MZ680**

The Series features PT-MZ880 (8,000 lm), PT-MZ780 (7,000 lm), and PT-MZ680 (6,000 lm) WUXGA models with a refined Multi-Laser Drive Engine for the optimal balance of high brightness, vivid colour, and low-maintenance operation. \*1 Measurement, measuring conditions, and method of notation are all compliant with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped.

### **Key Features**

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Laser LCD, 6 000 lumens, WUXGA

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Compact and lightweight body, designed with ultra-low noise operation (26dB)

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Wide Lens shift area and Ultra-Short Throw lens to expand installation capability

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Edge Blending function to realize versatile space creation

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Significant contribution to sustainability thanks to low Power consumption and Washable Eco Filter

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## PT-MZ680

<https://ap.connect.panasonic.com/p/h/en/products/projectors/pt-mz680>

Projector type	LCD projector
Display method	Transparent LCD panel (x 3, R/G/B)
Display Device -> Panel size	19.3 mm (0.76") diagonal (16:10 aspect ratio)
Display Device -> Drive method	Active matrix method
Display Device -> Number of pixels	2,304,000 (1920 x 1200) pixels x 3
Light source	Laser diodes
Light output *1	6,000 lm
Light output (ANSI)	6,000 lm
Time until light output declines to 50 %20,000 hours [NORMAL]	
-> NORMAL *3	
Time until light output declines to 50 %24,000 hours [ECO]	
-> ECO *3	
Time until light output declines to 50 %20,000 hours [QUIET]	
-> QUIET *4	
Resolution	WUXGA ( 1920 x 1200 ドット )
Contrast Ratio (typ.) *1	3,000,000:1 (Full On/Full Off)(When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1] or [2]. HDMI signal input)
Screen size (diagonal)	1.02-10.16 m (40-400 in), 1.52-10.16 m (60-400 in) with the ET-ELW22, 2.54-10.16 m (100-400 in) with the ET-ELU20, 16:10 aspect ratio
Center-to-corner zone ratio *1	85%
Lens	Powered zoom (throw ratio 1.61-2.76:1), powered focus F = 1.7-2.3, f = 26.8-45.5 mm (for supplied lens; optional lenses also available)
Lens shift -> Vertical(from center of screen) *4	±67 % (powered) (for supplied lens; optional lenses also available*4)
Lens shift -> Horizontal(from center of screen) *4	±35 % (powered) (for supplied lens; optional lenses also available*4)
Keystone correction range	Vertical: ±25 °, Horizontal: ±30 ° (for supplied lens; optional lenses also available*4)
Installation	Ceiling/floor, front/rear, free 360-degree installation
Terminals -> HDMI™ IN	HDMI™ x 3 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input*5), CEC supported
Terminals -> COMPUTER IN ( D-SUB 15pin )	D-sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr)
Terminals -> COMPUTER OUT ( D-SUB 15pin )	D-sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr)
Terminals -> AUDIO IN(M3 Stereo Mini Jack)	M3 stereo mini-jack x 1
Terminals -> AUDIO OUT(M3 Stereo Mini Jack)	M3 stereo mini-jack x 1
Terminals -> MULTI PROJECTOR SYNC IN	D-sub 9-pin (female) x 1 for external control/link control (RS-232C compliant)
Terminals -> MULTI PROJECTOR SYNC OUT	D-sub 9-pin (male) x 1 for link control
Terminals -> SERIAL IN	D-sub 9-pin (female) x 1 for external control/link control (RS-232C compliant)
Terminals -> SERIAL/MULTI-PROJECTOR SYNC IN	D-sub 9-pin (female) x 1 for external control/link control (RS-232C compliant)
Terminals -> SERIAL/MULTI-PROJECTOR SYNC OUT	D-sub 9-pin (female) x 1 for external control/link control (RS-232C compliant)
Terminals -> REMOTE 1 IN	M3 stereo mini-jack x 1 for wired remote control
Terminals -> REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)
Terminals -> DIGITAL LINK IN / LAN	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBaseT™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p*5 *6 signal input)
Terminals -> LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink™ [Class 2], Art-Net)
Terminals -> DC OUT	USB Connector (Type A) x 1 (Output 5 V/2 A)
Power supply	AC 100-240 V, 50/60 Hz
Maximum power consumption	360 W (4.2-2.0 A) (395VA)(Power consumption is 345 W at 200-240 V)
On-mode power consumption(Operating mode) -> Normal	[NORMAL] 330 W (100-120 V), 315 W (200-240 V)
On-mode power consumption(Operating mode) -> Eco	[ECO] 240 W (100-120 V), 230 W (200-240 V)
On-mode power consumption(Operating mode) -> Quiet *7	[QUIET] 238 W (100-120 V), 228 W (200-240 V)
Cabinet materials	Molded plastic
Filter	Included
Estimated filter maintenance cycle	Approx. 20,000 hours
Operation noise -> Normal *1	32 dB [NORMAL]

<b>Operation noise -&gt; Eco <sup>*2</sup></b>	32 dB [ECO]
<b>Operation noise -&gt; Quiet <sup>*1</sup></b>	26 dB [QUIET]
<b>Dimensions (W x H x D)</b>	561 x 224*8 x 439 mm (22 3/32" x 8 13/16"*8 x 17 9/32") (with supplied lens)
<b>Dimensions -&gt; Width (including protruding parts)</b>	561 mm (22 3/32")
<b>Dimensions -&gt; Height (including protruding parts)</b>	224 mm (8 13/16")
<b>Dimensions -&gt; Depth (including lens)</b>	439 mm (17 9/32")
<b>Weight <sup>*7</sup></b>	Approx. 17.6 kg (38.8 lbs) (with supplied lens)
<b>Operating environment -&gt; Operating temperature <sup>*8 *9</sup></b>	0–45 °C (32–113 °F)
<b>Operating Environment -&gt; Operating humidity (No condensation)</b>	20–80 % (no condensation)
<b>Applicable software</b>	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Smart Projector Control for iOS/Android™, Geometry Manager Pro
<b>Footnote Description</b>	<ol style="list-style-type: none"> <li>1. When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL].</li> <li>2. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped.</li> <li>3. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped.</li> <li>4. Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [2]). Estimated time until light output declines to 50 % varies depending on environment.</li> <li>5. Lens-shift range and keystone correction range may vary depending on lens.</li> <li>6. 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection.</li> <li>7. YPBPR 4:2:0 format only for 4K/60p signals input via DIGITAL LINK.</li> <li>8. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft).</li> <li>9. With legs at shortest position.</li> <li>10. Average value. May differ depending on the actual unit.</li> <li>11. Note that the projector cannot be used at altitudes 2,700 m (8,858 ft) or higher above sea level. In the following operating environments, light output may be reduced to protect the projector: when the projector is used at altitudes below 700 m (2,297 ft) and ambient temperature is 36 °C (97 °F) or higher; when the projector is used at altitudes between 700 m (2,297 ft) and 1,400 m (4,593 ft) exclusive and ambient temperature is 34 °C (93 °F) or higher; when the projector is used at altitudes between 1,400 m (4,593 ft) and 2,100 m (6,890 ft) exclusive and ambient temperature is 32 °C (90 °F) or higher; and when the projector is used at altitudes between 2,100 m (6,890 ft) and 2,700 m (8,858 ft) exclusive and ambient temperature is 30 °C (86 °F) or higher.</li> <li>12. Some functions available in Geo Pro software are not supported by the PT-MZ880 Series.</li> </ol>