

LCD Projectors

PT-VMZ7ST Series

Note: Product availability may vary by country or region.

Reduce Shadows, Enhance
Flexibility with Eco-Friendly
Short-Throw Projection



White Models

Black Models

■ Main Features

01 | Stress-free Installation Adapts to Various Layouts

Optimized for golf simulators, digital museums, offices, and classrooms, the VMZ7ST Series can project a vibrant 100-inch image from just 1.72 m (5.6 ft), minimizing shadows in compact spaces. Powered focus eliminates adjustment hassle when the projector is out of reach, while 1.2x zoom, V/H lens shift, and an upgraded screen adjustment suite with new GUI enhance layout flexibility. Angle Monitor¹, data cloning² via LAN/USB, and 4K DIGITAL LINK³ simplify setup, making the series a smart choice for engaging experiences in any environment.

02 | Clear Projection in Bright Spaces

The VMZ7ST Series delivers crisp detail and high contrast with up to 7,000 lm⁴ brightness for clear, color-rich projection on screens up to 300 inches. A high 5,000,000:1⁵ Dynamic Contrast ratio adds depth and realism, while a new Vivid Green Mode boosts green intensity—ideal for golf simulation. Daylight View Basic adjusts image quality to ambient light, ensuring visibility in open, well-lit classrooms and meeting spaces, where WUXGA resolution makes text easy to read at a distance.

03 | Eco-Friendly Design

Designed for a sustainable life cycle, the projector body plastic contains about 56 %⁶ recycled resins and is shipped in eco-friendly packaging. The laser light source and ECO Filter require no maintenance for 20,000 hours⁷, minimizing resource consumption. A new Image Detection⁸ function saves energy when the projector is not in active use, while Auto Power On⁹ reduces energy waste by starting projection automatically when a signal is detected. A built-in scheduling feature automates basic operations to your daily routine.

PT-VMZ7ST		
	PT-VMZ7ST	PT-VMZ6ST
Light Output	7,000 lm ⁴ / 7,000 lm (ANSI) ¹⁰	6,200 lm ⁴ / 6,200 lm (ANSI) ¹⁰
Resolution	WUXGA (1920 x 1200 pixels)	



¹ The values displayed in the OSD are based on the results of angle sensor detection and may differ from the actual projection angle. They are for reference only, and accuracy is not guaranteed. ² Supported on identical models only. Excludes passwords, projector name/ID, time, date, time zone, and network settings. ³ 4K/30p input signals are converted to the projector's resolution (1920 x 1200 pixels). YPbPr 4:2:0 format only for 4K/30p signals input via DIGITAL LINK. ⁴ When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and notation method comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. ⁵ Full On/Full Off, when [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1]. Measurement, measuring conditions, and notation method comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. ⁶ By total weight of plastic parts in the projector main unit. Excludes printed circuit boards, labels, cables, connectors, electronic components, optical components, ESD components, EMI component adhesives, and coatings. ⁷ Around this time, the light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [2], temperature 30 °C [86 °F], elevation 700 m [2,297 ft] with 0.15 mg/m³ of particulate matter). The estimated time until light output declines to 50 % varies depending on the environment. Filter cleaning cycle: 20,000 hours (under dust conditions of 0.08 mg/m³), 10,000 hours (under dust conditions of 0.15 mg/m³). The filter cleaning cycle varies depending on the environment. ⁸ Settings cannot be made when [DYNAMIC CONTRAST] is set to anything other than [OFF], [ECO MANAGEMENT] → [AUTO POWER SAVE] is set to [OFF], [ECO MANAGEMENT] → [LIGHT POWER] is set to anything other than [NORMAL], a [TEST PATTERN] is displayed, or there is no signal. Image Detection function is supported when the input signal is transmitted via HDMI™ or COMPUTER IN terminals. ⁹ Settings cannot be made when [STANDBY MODE] is set to [ECO] or when [IN STANDBY MODE] is set to [ON] in the [AUDIO SETTINGS] menu. Auto Power On is supported when the input signal is transmitted via HDMI™ or COMPUTER IN terminals. ¹⁰ When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. ¹¹ Requires AI-WM50 Series Wireless Module (sold separately). Availability varies by country or region.

Other Features

- Works with Art-Net DMX, PJLink™, Crestron Connected® V2, Crestron® XiO Cloud, and Extron XTP®
- Supports Multiple PJ Firmware Batch Update Tool and Projector Network Setup Software
- Compatible with IPv6 network protocol¹
- Supports widescreen 21:9 video content²

- USB port for DC 5 V/2 A power supply, data transfer, and optional AJ-WM50 Series wireless module
- Lens Block detection prevents accidental damage
- Audible remote-control feedback for projector on/off
- Multi Screen Support System
- DICOM Simulation Mode

¹ The AJ-WM50 Series wireless module is not compatible with IPv6. ² Resolution may be reduced when projecting widescreen content at its native aspect ratio.

Learn More

For more information, please scan the QR code to access the VMZ7ST Series product webpage at our global projector website.



Specifications

Model		PT-VMZ7ST	PT-VMZ6ST
Projector type		LCD projectors	
LCD panel	Panel size	0.64 inch (16:10 aspect ratio)	
	Pixels	2,304,000 (1920 x 1200) pixels x 3	
Light source		Laser diodes	
Light output ¹		7,000 lm ² / 7,000 lm (ANSI) ³	6,200 lm ² / 6,200 lm (ANSI) ³
Time until light output declines to 50 % ⁴		20,000 hours (NORMAL/QUIET), 24,000 hours (ECO)	
Resolution		WUXGA (1920 x 1200 pixels)	
Contrast ratio ²		5,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1].)	
Screen size (diagonal)		1.77–7.62 m (70–300 in), 16:10 aspect ratio	
Center-to-corner zone ratio ²		85 %	
Lens		1.2x manual zoom (throw ratio: 0.797–1.01:1), powered focus, F 1.53–1.66, f 11.3–14.2 mm	
Digital Zoom Extender ⁵		Throw Ratio 0.797–1.27:1 ⁶ (Corresponding value. When used together with optical zoom.)	
Lens shift (From the origin point of the lens mounter)	Vertical	+50 %	
	Horizontal	±20 %	
Keystone correction range		Vertical ±25 %, Horizontal ±35 %	
Terminals	HDMI™ 1/2 IN	HDMI™ 19-pin x 2 (Compatible with HDCP, Deep Color, 4K/30p ⁷ signal input), CEC supported ⁸	
	COMPUTER IN	D-sub 15-pin (female) (RGB/YPrPr/YCbCr)	
	AUDIO IN	M3 stereo mini-jack x 1	
	AUDIO OUT	M3 stereo mini-jack x 1	
	SERIAL IN	D-sub 9-pin (female) x 1 for computer control (RS-232C compliant)	
	DIGITAL LINK/LAN	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBaseT™ compliant), 100Base-TX (Compatible with PJLink™ [Class 2], HDCP, Deep Color, 4K/30p ⁷ signal input)	
	LAN	RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PJLink™ [Class 2]	
	USB (VIEWER/WIRELESS/DC OUT)	USB connector (Type A) x 1 for Memory Viewer function, optional AJ-WM50 Series Wireless Module, power supply (DC 5 V, maximum 2 A ⁹)	
Protocol versions		IPv4, IPv6 ¹⁰	
Power supply		Single-phase AC 100–240 V, 50/60 Hz	
Maximum power consumption ¹¹		345 W (3.6 A) (350 VA) (Power consumption is 335 W at 200–240 V)	320 W (3.3 A) (325 VA) (Power consumption is 305 W at 200–240 V)
On-mode power consumption (Operating mode) ¹¹	NORMAL	310 W (100–240 V), 295 W (200–240 V)	280 W (100–240 V), 270 W (200–240 V)
	ECO	235 W (100–240 V), 225 W (200–240 V)	215 W (100–240 V), 205 W (200–240 V)
	QUIET 1	270 W (100–240 V), 260 W (200–240 V)	245 W (100–240 V), 235 W (200–240 V)
	QUIET 2	230 W (100–240 V), 220 W (200–240 V)	210 W (100–240 V), 200 W (200–240 V)
Built-in speaker		10 W monaural	
Filter ¹²		Included (Estimated maintenance time: approx. 20,000 hours)	
Operation noise ²		37 dB (NORMAL/ECO), 32 dB (QUIET 1), 27 dB (QUIET 2)	35 dB (NORMAL/ECO), 30 dB (QUIET 1), 25 dB (QUIET 2)
Dimensions (W x H x D)		414 x 120 x 424 mm (16 5/16" x 4 23/32" x 16 11/16") (not including protruding parts) 414 x 167 x 424 mm (16 5/16" x 6 9/16" x 16 11/16") (with feet at shortest position)	
Weight ¹³		Approx. 8.4 kg (18.52 lbs)	Approx. 8.3 kg (18.30 lbs)
Operating environment		Operating temperature: 0–45 °C (32–113 °F) ^{14,15} , Operating humidity: 20–80 % (no condensation)	
Applicable software		Multi Monitoring & Control Software, Projector Network Setup Software, Presenter Light Software for Windows ^{®16} , Wireless Projector App for iOS/Android ^{™17}	

¹ When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. ² Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is average of all products when shipped. 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. 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. ⁵ Resolution decreases when using Digital Zoom Extender. Grid Correction, 6-Point Screen Correction, V/H Keystone Correction, and curved-screen correction are not available when using this function. ⁶ When Digital Zoom Extender is set to 80%. ⁷ 4K signals are converted to the projector's resolution upon projection. ⁸ Depending on the connected CEC command-compatible device, the link control may not operate normally. ⁹ On standby, power supply is available with Quick Startup set to ON or Power Management set to Ready. ¹⁰ The optional AJ-WM50 Series Wireless Module does not support IPv6. ¹¹ 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). ¹² Filter cleaning cycle varies depending on the environment. The filter can be washed and reused up to two times. Filter cleaning cycle: 20,000 hours (under dust conditions of 0.08 mg/m³), 10,000 hours (under dust conditions of 0.15 mg/m³). ¹³ Average value. May differ depending on the actual unit. ¹⁴ Light output is limited at operating temperatures higher than 30 °C (86 °F), and projectors cannot be operated at altitudes higher than 2,700 m (8,858 ft) above sea level. ¹⁵ When the optional AJ-WM50 Series Wireless Module is attached, the operating temperature range becomes 0–40 °C (32–104 °F). ¹⁶ When using Presenter Light Software, images are projected with 1280 x 800 dots or 1024 x 768 dots onto the screen. Also, your PC display resolution may be forcibly changed, and audio playback disrupted or become noisy while images and sound are being transmitted. ¹⁷ When using the Wireless Projector app, display resolution differs depending on your iOS/Android™ device and the display device. The maximum supported display resolution is WUXGA (1280 x 800).

Optional Accessories

- **Ceiling Mount Bracket**
ET-PKL100H (for high ceilings) / ET-PKL100S (for low ceilings)
Note: ET-PKL100H/PKL100S used in combination with ET-PKV400B (sold separately).
- **Projector Mount Bracket**
ET-PKV400B

- **Replacement Filter Unit**
ET-RFV500
- **Wireless Module**
AJ-WM50 Series
Note: product availability may vary by country or region.
The suffix at the end of the model number is omitted.
Operating temperature: 0–40 °C (32–104 °F).

- **Wireless Presentation System PressIT**
TY-WPS2 (basic set)
Note: visit <https://docs.connect.panasonic.com/prodisplays/products/ty-wps2/> for more information.

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