

LCD Projectors

PT-VMZ51 Series

Note: Product availability varies by country or region.

Compact, Lightest-in-Class
LCD Projectors Deliver
Up to 5,200 lm¹ for Clear,
Vivid Images in Well-Lit
Classrooms and Offices



Note: According to Panasonic Projector & Display Corporation research for the PT-VMZ51/VMZ51S/VMZ5ES/VMW51 only among LCD laser projectors in the 5,000-lumens-class or higher as of July 2025.

■ Main Features

01 | Clear Images That Are Easy to See in Bright Rooms

With up to 5,200 lm¹ of brightness, a high 3,000,000:1/5,000,000:1² Dynamic Contrast ratio, vivid color reproduction, and Daylight View Basic technology, images stay clear and bright in well-lit classrooms and meeting rooms. Detailed images, such as technical graphics and fine text, are crisp, sharp, and easy to see even to those viewing the screen at a distance.

02 | Installation Flexibility Adapts Projection to Any Space

The PT-VMZ51 Series is the lightest LCD projector in its class³, with a compact 6.5 kg⁴ (14.33 lbs) body, 1.6x optical zoom⁵, and V/H Lens-Shift streamlining installation. Flexible 6-Point Screen Adjustment enables projection into room corners, while CEC command-compatible⁶ HDMI[™] and DIGITAL LINK⁷ terminals support 4K signals⁸ for easy integration.

03 | Enjoy Smooth and Effortless Collaboration

Connect smartphone and projector over wireless LAN⁹ via the QR Code displayed on screen and share a wide variety of content without cable mess, or use optional Wireless Presentation System PressIT¹⁰ to share almost any device screen at the press of a button. You can also project content from a USB flash drive.

PT-VMZ51 Series					
	PT-VMZ51	PT-VMZ51S	PT-VMZ5ES	PT-VMZ41	PT-VMW51
Light Output	5,200 lm ¹ / 5,200 lm (ANSI) ¹¹			4,500 lm ¹ / 4,500 lm (ANSI) ¹¹	5,200 lm ¹ / 5,200 lm (ANSI) ¹¹
Resolution	WUXGA (1920 x 1200 pixels)				WXGA (1280 x 800 pixels)



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1 When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped.
2 The PT-VMZ51/VMZ51S/VMW51/VMZ41 has a 3,000,000:1 contrast ratio. The PT-VMZ5ES has a 5,000,000:1 contrast ratio. Full On/Full Off, when [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1]. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped.
3 According to Panasonic Projector & Display Corporation research for the PT-VMZ51/VMZ51S/VMZ5ES/VMW51 only among LCD laser projectors in the 5,000-lumens-class or higher as of July 2025.
4 For PT-VMZ51/VMZ51S/VMZ41/VMW51 only. PT-VMZ5ES weighs 6.1 kg (13.45 lbs).
5 Excluding the PT-VMZ5ES, which has a 1.2x optical zoom.
6 Depending on the connected CEC command-compatible device, the link control may not operate normally.
7 PT-VMZ51S/VMZ5ES/VMZ41 excluded.
8 Supports signals up to 4K/30p. A signal with different resolution is converted to the number of display dots. PT-VMZ51/VMZ51S/VMZ5ES/VMZ41: 1920 x 1200 dots, PT-VMW51: 1280 x 800 dots. Applicable terminals: DIGITAL LINK terminal/HDMI[™] terminal (DIGITAL LINK not included on PT-VMZ51S/VMZ5ES/VMZ41 models).
9 Requires the optional AI-WM50 Series Wireless Module (sold separately). Availability may vary by country or region.
10 Wireless Presentation System PressIT is sold separately. Availability may vary by country or region. For more information, please visit our global website.
11 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.

Pristine Pictures Under Lights

With up to 5,200 lm¹ from the lightest LCD projector in its class², the compact PT-VMZ51 Series cuts through bright ambient light to provide vivid, contrast-rich images without dimming the lights or closing the blinds. A refined optical engine, deep Dynamic Contrast, and Daylight View Basic further maintain image visibility in well-lit rooms.

Flexible and Efficient Installation

Flexible 1.6x optical zoom³ and lens adjustment support projection from different angles, heights, and throw-distances, while 6-Point Screen Correction enables projection into room corners without distortion. Digital Zoom Extender⁴ can allow the use of existing mounts with your new projector, even if throw-distance exceeds its optical zoom range.

1 When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 2 According to Panasonic Projector & Display Corporation research for the PT-VMZ51S/VMZ51S/VMZ5ES/VMW51 only among LCD laser projectors in the 5,000-lumens-class or higher as of July 2025. 3 Excluding the PT-VMZ5ES, which has a 1.2x optical zoom. 4 Installation range may vary for the PT-VMZ51, PT-VMZ51S, PT-VMZ41, and PT-VMW51. The PT-VMZ5ES is equipped with a 1.2x optical zoom lens, with projection distances ranging from 2.92–3.53 m (9.6–11.6 ft) using optical zoom, and up to 4.42 m (14.5 ft) with the Digital Zoom Extender. Resolution decreases when using Digital Zoom Extender. 6-Point Screen Correction, V/H Keystone Correction, and curved-screen correction are not available when using this function, and range of corner adjustment is limited. 5 Depending on the connected CEC command-compatible device, the link control may not operate normally. 6 Supports signals up to 4K/30p. A signal with different resolution is converted to the number of display dots. PT-VMZ51/VMZ51S/VMZ5ES/VMZ41: 1920 x 1200 dots, PT-VMW51: 1280 x 800 dots. Applicable terminals: DIGITAL LINK terminal/HDMI terminal (DIGITAL LINK not included on PT-VMZ51S/VMZ5ES/VMZ41). 7 PT-VMZ51S/VMZ5ES/VMZ41 excluded. 8 PT-VMZ51S/VMZ41 in comparison to PT-VMZ50/VMZ40 in NORMAL Mode according to Panasonic Projector & Display Corporation research. 9 Brightness is reduced when operating the projector in ECO Mode. 10 Around this time, 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). Estimated time until light output declines to 50 % varies depending on environment. Filter cleaning cycle varies depending on environment. 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).

Specifications

Model		PT-VMZ51	PT-VMZ51S	PT-VMZ5ES	PT-VMZ41	PT-VMW51
Projector type		LCD projectors				
LCD panel	Size	16.3 mm (0.64 in) diagonal (16:10 aspect ratio)				
	Pixels	2,304,000 (1920 x 1200) pixels				1,024,000 (1280 x 800) pixels
Light source		Laser diode				
Light output ¹		5,200 lm ² / 5,200 lm (ANSI) ³			4,500 lm ² / 4,500 lm (ANSI) ³	5,200 lm ² / 5,200 lm (ANSI) ³
Time until light output declines to 50 % ⁴		20,000 hours (NORMAL/QUIET)/24,000 hours (ECO)				
Resolution		WXGA (1920 x 1200 pixels)				WXGA (1280 x 800 pixels)
Contrast ratio ²		3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1].)			5,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1].)	3,000,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1].)
Screen size (diagonal)		0.76–7.62 m (30–300 in), 16:10 aspect ratio				
Center-to-corner zone ratio ²		85 %				
Lens		1.6x manual zoom (throw ratio: 1.09–1.77:1), manual focus lens, F 1.60–2.12, f 15.30–24.64 mm			1.2x manual zoom (throw ratio: 1.36–1.64:1), manual focus lens, F 1.61–1.76, f 19.10–23.00 mm	1.6x manual zoom (throw ratio: 1.09–1.77:1), manual focus lens, F 1.60–2.12, f 15.30–24.64 mm
Digital Zoom Extender ⁵		Throw ratio 1.09–2.21:1 ⁶ (Corresponding value. When used together with optical zoom.)			Throw Ratio 1.36–2.05:1 ⁶ (Corresponding value. When used together with optical zoom.)	Throw ratio 1.09–2.21:1 ⁶ (Corresponding value. When used together with optical zoom.)
Lens shift (from center of screen)	Vertical	+44 %			+38 %	+44 %
	Horizontal	±20 %			±15 %	±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 1/2 IN	D-sub 15-pin (female) x 2 (RGB/Y/PbPr/YCbCr)			—	D-sub 15-pin (female) x 2 (RGB/Y/PbPr/YCbCr)
	AUDIO 1/2 IN ⁹	M3 stereo mini-jack x 2			M3 stereo mini-jack x1	M3 stereo mini-jack x 2
	VARIABLE AUDIO OUT	M3 stereo mini-jack x 1				
	SERIAL IN	D-sub 9-pin (female) x 1 for computer control (RS-232C compliant)				
	LAN/DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBase™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], HDCP, Deep Color, 4K/30p ⁷ signal input)			—	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBase™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], HDCP, Deep Color, 4K/30p ⁷ signal input)
	LAN	RJ-45 x 1 for network control, 10Base-T, 100Base-TX, compatible with PLink™ [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) ¹⁰				
Power supply		Single-phase AC 100 V–240 V, 50/60 Hz				
Protocol versions		IPv4, IPv6 ¹¹				
Power consumption ¹²	Maximum power consumption	305 W (3.1–1.3 A) (310 VA) (Power consumption is 295 W at 200–240 V)	300 W (3.1–1.3 A) (305 VA) (Power consumption is 290 W at 200–240 V)	255 W (Power consumption is 245 W at 200–240 V)	300 W (3.1–1.3 A) (305 VA) (Power consumption is 290 W at 200–240 V)	305 W (3.1–1.3 A) (310 VA) (Power consumption is 295 W at 200–240 V)
	On-mode power consumption (Light Power)	[NORMAL]	270 W (100–120 V)	265 W (100–120 V)	230 W (100–120 V)	260 W (100–120 V)
		[ECO]	250 W (200–240 V)	255 W (200–240 V)	220 W (200–240 V)	250 W (200–240 V)
		[QUIET]	195 W (100–120 V)	190 W (100–120 V)	170 W (100–120 V)	180 W (100–120 V)
			185 W (200–240 V)	180 W (200–240 V)	165 W (200–240 V)	175 W (200–240 V)
	190 W (100–120 V)	185 W (100–120 V)	165 W (100–120 V)	185 W (100–120 V)	175 W (100–120 V)	
	180 W (200–240 V)	175 W (200–240 V)	160 W (200–240 V)	175 W (200–240 V)	170 W (200–240 V)	
Built-in speaker		10 W monaural			—	10 W monaural
Filter ¹³		Included (Estimated maintenance time: approx. 20,000 hours)				
Operation noise ²		36 dB (NORMAL/ECO), 26 dB (QUIET)				
Dimensions (W x H x D)		399 mm x 115 mm x 348 mm (15 23/32" x 4 17/32" x 13 11/16") (not including protruding parts) 399 mm x 133 mm x 348 mm (15 23/32" x 5 1/4" x 13 11/16") (with feet at shortest position)				
Weight with supplied lens ¹⁴		Approx. 6.5 kg (14.33 lbs)			Approx. 6.1 kg (13.45 lbs)	Approx. 6.5 kg (14.33 lbs)
Operating environment		Operating temperature: 0–45 °C (32–113 °F) ^{15,16} , Operating humidity: 20–80 % (no condensation)				
Applicable software		Multi Monitoring & Control Software, Logo Transfer Software, Presenter Light Software for Windows ¹⁷ , Wireless Projector App for iOS/Android ¹⁸			Multi Monitoring & Control Software, Projector Network Setup Software for Windows ⁴ , Presenter Light Software for Windows ¹⁷ , Wireless Projector App for iOS/Android ¹⁸	Multi Monitoring & Control Software, Logo Transfer Software, Presenter Light Software for Windows ¹⁷ , Wireless Projector App for iOS/Android ¹⁸

1 When [PICTURE MODE] is set to [DYNAMIC], [LIGHT POWER] is set to [NORMAL], [DAYLIGHT VIEW] is set to [OFF], and [AUTO POWER SAVE] is set to [OFF]. 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. 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], temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of particulate matter). Estimated time until light output declines to 50 % varies depending on environment. 5 Resolution decreases when using this function. 6-Point Screen Correction, V/H Keystone Correction, and curved-screen correction are not available when using this function, and range of corner adjustment is limited. 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 PT-VMZ5ES has one AUDIO input only. 10 On standby, power supply is available with Quick Startup set to ON or Power Management set to Ready. 11 Requires projector firmware Ver. 2.00 or higher. The optional AJ-WM50 Series Wireless Module does not support IPv6. 12 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). 13 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). 14 Average value. May differ depending on the actual unit. 15 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. 16 When the optional AJ-WM50 Series Wireless Module is attached, the operating temperature range becomes 0–40 °C (32–104 °F). 17 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. 18 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 WXGA (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

The People-Friendly Projector

Get a smooth start to classes and meetings: two CEC command-compatible⁸ HDMI[™] inputs enable projector ON/OFF with the source device, and images appear quickly thanks to Quick On/Quick Off laser design. The projectors support 4K input signals⁶ via HDMI[™] and DIGITAL LINK⁷ to simplify system construction and projector integration.

Power Consumption Reduced 20 %⁸

Select PT-VMZ51 Series models use about 20 %⁸ less energy than models in the previous series. Efficiency is further increased, and brightness optimized to ambient light levels, by pressing the ECO⁹ button on the remote. A change to Panasonic projection will reduce waste, save money, and contribute to your CSR environmental policy objectives.

Other Features

- Low maintenance with 20,000-hour¹⁰ filter and light-source replacement
- Free 360° installation
- Built-in 10 W speaker (excluding VMZ5ES) and audio output
- Multi Monitoring & Control Software
- Compatible with PLink[™], Crestron Connected[™], and AMX DD
- Built-in shutter function
- ECO Management System
- Emulation Mode
- Startup Logo Function



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All information included here is valid as of July 2025.