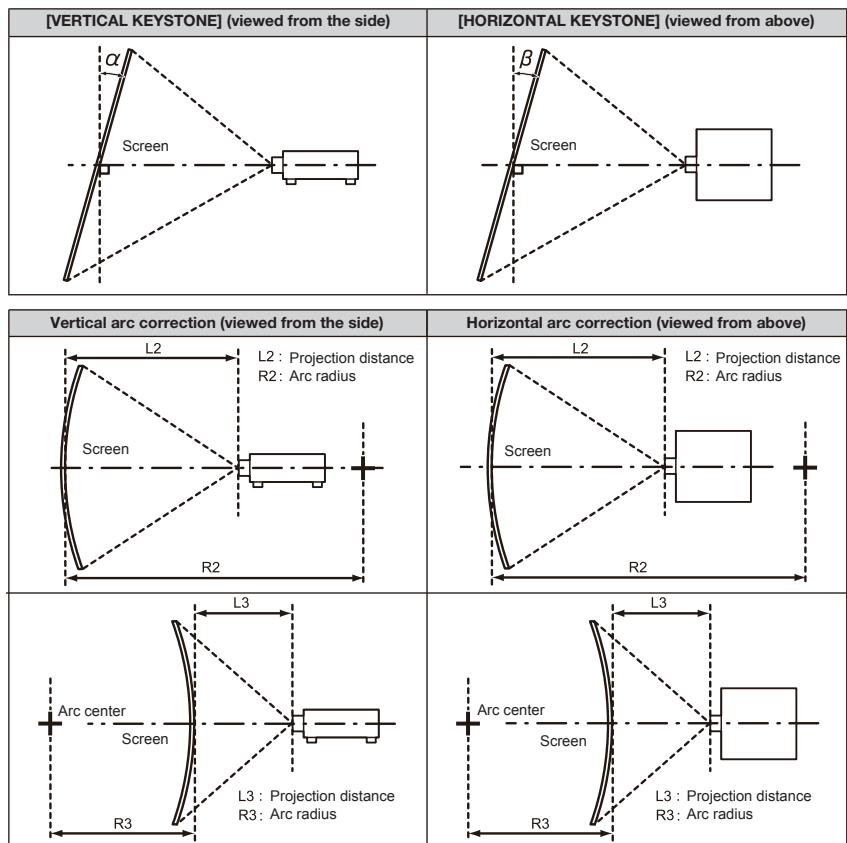


**Specifications**

**Main unit**

Power supply		AC 100V - 240V, (3.9A-1.7A) 50Hz/60Hz
Power consumption		370 W NORMAL: 370W ECO: 300W SHUTTER: 71W STANDBY MODE [ECO]: 0.4W*1 STANDBY MODE [NORMAL]: 18W [STANDBY MODE] is set to [NORMAL]: [AUDIO SETTING] → [IN STANDBY MODE] is set to [On]: 45W
BTU value		Max 1263BTU
LCD panel	Panel size	16.3 mm (0.64 in) diagonal (16:10 aspect ratio)
	Projection system	Transparent LCD panel (× 3, R/G/B)system
	Pixels	2,304,000 (1920 × 1200)
Light source		Laser Diode
Light output		5000 lm (When [LIGHT POWER] is set to [NORMAL])*2 ([INPUT SIGNAL] is set to [PC], [PICTURE MODE] is set to [Dynamic], [DAYLIGHT VIEW] is set to [Off], [LIGHT POWER] is set to [NORMAL], [Eco mode] is set to [Off]) 3300 lm (When [LIGHT POWER] is set to [ECO][QUIET])*3
Time until light output declines to 50 %*4		20,000 hours
Filter Replacement Cycle*5		20,000 hours (Under the dust conditions of 0.08mg/m <sup>3</sup> ) 10,000 hours (Under the dust conditions of 0.15mg/m <sup>3</sup> ) Filter can wash twice
Resolution		1920 × 1200 pixels
Contrast*2		3,000,000:1 (All White/All Black) (When [PICTURE MODE] is set to [Dynamic], [Dynamic Contrast] is set to [1])
Screen size		0.76–7.62 m (30–300 inches) (16:10 aspect ratio)
Center-to-corner uniformity*2		85%
Lens		1.6x Manual zoom (Throw ratio:1.09-1.77:1) / Manual focus lens, F=1.6–2.12, f=15.30–24.64 mm
Compatible signal	VIDEO	fH: 15.73 kHz / 15.63 kHz fV: 59.94 Hz / 50 Hz
	RGB	Resolution: 640 × 400 to 1920 × 1200 Dot clock frequency: 162 MHz or less PIAS (Panasonic Intelligent Auto Scanning) system
	YPbPr (YCbCr)	Resolution: 480i/576i to 1920 × 1080 Dot clock frequency: 148.5 MHz or less The HD/SYNC and VD terminals do not support 3 value SYNC.
	HDMI	Moving image signal resolution: 480i*6/576i*6 to 4096 × 2160 Still image signal resolution: 640 × 400 to 1920 × 1200 (non-interlace) Dot clock frequency: 25 MHz to 297 MHz
	DIGITAL LINK	Moving image signal resolution: 480i*6/576i*6 to 4096 × 2160 Still image signal resolution: 640 × 400 to 1920 × 1200 (non-interlace) Dot clock frequency: 25 MHz to 297 MHz

Keystone correction range



Projection lens Model No.	Only [KEYSTONE] used		[KEYSTONE] and [CURVED] used together		Only [CURVED] used	
	Vertical keystone correction angle $\alpha$ (°)	Horizontal keystone correction angle $\beta$ (°)	Vertical keystone correction angle $\alpha$ (°)	Horizontal keystone correction angle $\beta$ (°)	Min. value of R2/L2	Min. value of R3/L3
PT-VMZ50	$\pm 25$	$\pm 35$	$\pm 25$	$\pm 35$	1.4	2.9

- When [SCREEN ADJUSTMENT] is used, the focus may not be able to match the whole screen as correction increases.
- The curved screen should be in the shape of a circular arc part of a perfect circle.

Optical axis shift	Vertical: +44%, 0% (manual) Horizontal: +20%, -20% (manual)																		
Installation	Ceiling/floor, front/rear																		
Terminals	<table border="1"> <tbody> <tr> <td>COMPUTER 1 IN</td> <td>high-density D-Sub 15 p (female) × 1 [RGB signal] R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic [YPbPr signal] Y: 1.0 Vp-p (including sync signal), Pb/P<sub>R</sub> (Cb/C<sub>R</sub>): 0.7 Vp-p, 75 ohms</td> </tr> <tr> <td>COMPUTER 2 IN / 1 OUT</td> <td>high-density D-Sub 15 p (female) × 1 [RGB signal] R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic [YPbPr signal] Y: 1.0 Vp-p (including sync signal), Pb/P<sub>R</sub> (Cb/C<sub>R</sub>): 0.7 Vp-p, 75 ohms</td> </tr> <tr> <td>VIDEO IN</td> <td>Pin jack × 1 1.0 Vp-p, 75 ohms</td> </tr> <tr> <td>HDMI 1 IN HDMI 2 IN</td> <td>HDMI 19 pin × 2, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 48 kHz/44.1 kHz/32 kHz) 4K/30p signal input</td> </tr> <tr> <td>AUDIO IN 1 AUDIO IN 2</td> <td>M3 stereo mini jack × 2, 0.5 V[rms], input impedance 22 k ohms and more</td> </tr> <tr> <td>AUDIO IN 3</td> <td>Pin jack × 2(L-R), 0.5 V[rms], input impedance 22 k ohms and more</td> </tr> <tr> <td>VARIABLE AUDIO OUT</td> <td>M3 stereo mini jack, 0 V[rms] to 2.0 V[rms] variable, output impedance 2.2 k ohms and less</td> </tr> <tr> <td>USB [VIEWER/WIRELESS/DC OUT]</td> <td>USB connector(type A) × 1 for Memory Viewer/Wireless Module (Output 5V MAX 2A On standby, power supply is available with Quick Startup set to ON or Power Management set to Ready.)</td> </tr> <tr> <td>SERIAL IN</td> <td>D-sub 9 pin × 1, RS-232C compliant, for computer control use</td> </tr> </tbody> </table>	COMPUTER 1 IN	high-density D-Sub 15 p (female) × 1 [RGB signal] R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic [YPbPr signal] Y: 1.0 Vp-p (including sync signal), Pb/P <sub>R</sub> (Cb/C <sub>R</sub> ): 0.7 Vp-p, 75 ohms	COMPUTER 2 IN / 1 OUT	high-density D-Sub 15 p (female) × 1 [RGB signal] R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic [YPbPr signal] Y: 1.0 Vp-p (including sync signal), Pb/P <sub>R</sub> (Cb/C <sub>R</sub> ): 0.7 Vp-p, 75 ohms	VIDEO IN	Pin jack × 1 1.0 Vp-p, 75 ohms	HDMI 1 IN HDMI 2 IN	HDMI 19 pin × 2, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 48 kHz/44.1 kHz/32 kHz) 4K/30p signal input	AUDIO IN 1 AUDIO IN 2	M3 stereo mini jack × 2, 0.5 V[rms], input impedance 22 k ohms and more	AUDIO IN 3	Pin jack × 2(L-R), 0.5 V[rms], input impedance 22 k ohms and more	VARIABLE AUDIO OUT	M3 stereo mini jack, 0 V[rms] to 2.0 V[rms] variable, output impedance 2.2 k ohms and less	USB [VIEWER/WIRELESS/DC OUT]	USB connector(type A) × 1 for Memory Viewer/Wireless Module (Output 5V MAX 2A On standby, power supply is available with Quick Startup set to ON or Power Management set to Ready.)	SERIAL IN	D-sub 9 pin × 1, RS-232C compliant, for computer control use
COMPUTER 1 IN	high-density D-Sub 15 p (female) × 1 [RGB signal] R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic [YPbPr signal] Y: 1.0 Vp-p (including sync signal), Pb/P <sub>R</sub> (Cb/C <sub>R</sub> ): 0.7 Vp-p, 75 ohms																		
COMPUTER 2 IN / 1 OUT	high-density D-Sub 15 p (female) × 1 [RGB signal] R: 0.7 Vp-p, 75 ohms, G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B: 0.7 Vp-p, 75 ohms HD, VD/SYNC: TTL, high impedance, positive/negative automatic [YPbPr signal] Y: 1.0 Vp-p (including sync signal), Pb/P <sub>R</sub> (Cb/C <sub>R</sub> ): 0.7 Vp-p, 75 ohms																		
VIDEO IN	Pin jack × 1 1.0 Vp-p, 75 ohms																		
HDMI 1 IN HDMI 2 IN	HDMI 19 pin × 2, HDCP and Deep color compatible Audio signals : Linear PCM (Sample frequency : 48 kHz/44.1 kHz/32 kHz) 4K/30p signal input																		
AUDIO IN 1 AUDIO IN 2	M3 stereo mini jack × 2, 0.5 V[rms], input impedance 22 k ohms and more																		
AUDIO IN 3	Pin jack × 2(L-R), 0.5 V[rms], input impedance 22 k ohms and more																		
VARIABLE AUDIO OUT	M3 stereo mini jack, 0 V[rms] to 2.0 V[rms] variable, output impedance 2.2 k ohms and less																		
USB [VIEWER/WIRELESS/DC OUT]	USB connector(type A) × 1 for Memory Viewer/Wireless Module (Output 5V MAX 2A On standby, power supply is available with Quick Startup set to ON or Power Management set to Ready.)																		
SERIAL IN	D-sub 9 pin × 1, RS-232C compliant, for computer control use																		

Terminals	DIGITAL LINK/LAN	RJ-45 × 1 for network and DIGITAL LINK (video/network/serial control) (HDBaseT™ compliant), PJLink™ (class 2) compatible, 100Base-TX, HDCP compatible, Deep Color compatible 4K/30p signal input
	LAN	RJ-45 × 1 for network connection, PJLink™ (class 2) compatible, 10Base-T/100Base-TX
Power cord length		2.0 m (6 ft 7 in)
Cabinet materials		Molded plastic
Dimensions (W × H × D)		399 x 133*7 x 348mm (15-22/32 x 5-1/4*7 x 13-11/16in)
Weight		Approx. 7.2 kg (15.9 lbs.)
Operation noise		37 dB[When [LIGHT POWER] is set to [NORMAL]] / 27 dB[When [LIGHT POWER] is set to [QUIET]]
Laser Classification	Laser Class	USA and Canada: Class 3R (IEC 60825-1:2007) Other countries or regions: Class 1 (IEC/EN 60825-1:2014)
	Risk Group	Risk Group 2 (IEC 62471-5:2015)
Operating temperature		0–45 °C (32–113 °F)*8
Operating humidity		20%–80% (no condensation)

**Remote control unit**

Power supply	3 V DC (AAA/R03/LR03 battery × 2)
Operation range	Approx. 30 m (98 ft 5 in) when operated from directly in front of the signal receptor
Dimensions (W × H × D)	48 × 145 × 27 mm (1-7/8 × 5-23/32 × 1-1/16 in)
Weight*9	Approx. 102 g (3.6 ozs.) including batteries

**Other Applications**

- Multi Monitoring and Control Software (for Windows)
- Logo Transfer Software (for Windows)
- Presenter Light Software (for Windows)
- Wireless Projector (for iOS / Android)

**Supplied accessories**

- Power cord with secure lock (× 1) (× 2 for Europe / ASIA models)
- Wireless remote control unit (× 1)
- Batteries for remote control (AAA/R03 or AAA/LR03 battery × 2)
- Lens cap (× 1)
- String (× 1) (for lens cap)

**Optional accessories**

- Digital interface box ET-YFB100G
- Digital LINK Switcher ET-YFB200G
- Ceiling mount bracket ET-PKL100H (for high ceilings)  
ET-PKL100S (for low ceilings)
- Attachment for ceiling mount bracket ET-PKV400B
- Early Warning Software ET-SWA100\*10
- Replacement Filter Unit ET-RFV500
- Wireless module AJ-WM50\*11

\*1 When the standby mode is set to ECO, network functions such as power on over the LAN network will not operate, and the serial output terminal cannot be used. Also, only certain commands can be received for external control using the serial terminal.

\*2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118:2012 international standards.

\*3 Indicated average light-output value of all shipper products.

\*4 Around this time, light output will have decreased by approximately 50%. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [2], under conditions with 30 °C (86 °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.

\*5 Usage environment affects the duration of filter.

\*6 Pixel-Repetition signal (dot clock frequency 27.0 MHz) only

\*7 With legs at shortest position.

\*8 The projector cannot be used at an altitude of 2 700 m (8 858') or higher above sea level.  
In the following operating environment, the light output may decrease to protect the projector.

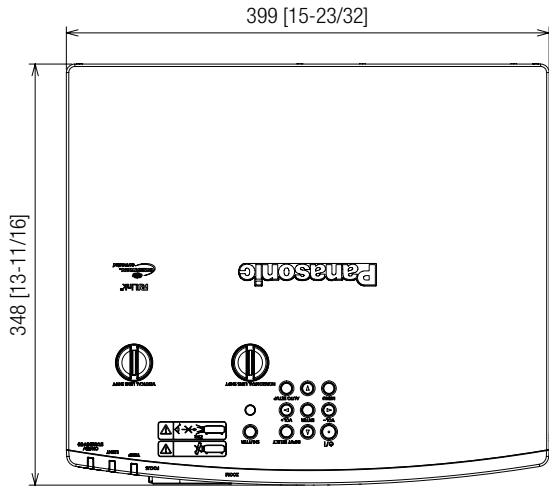
- When the projector is operated at an altitude below 700 m (2 297') and the ambient temperature exceeds 36°C (97°F)
- When the projector is operated at an altitude between 700 m (2 297') and 1 400 m (4 593') exclusive and the ambient temperature exceeds 34°C (93°F)
- When the projector is operated at an altitude between 1 400 m (4 593') and 2 100 m (6 890') exclusive and the ambient temperature exceeds 32°C (90°F)
- When the projector is operated at an altitude between 2 100 m (6 890') and 2 700 m (8 858') exclusive and the ambient temperature exceeds 30°C (86°F)

\*9 Average value. Weight varies for each product.

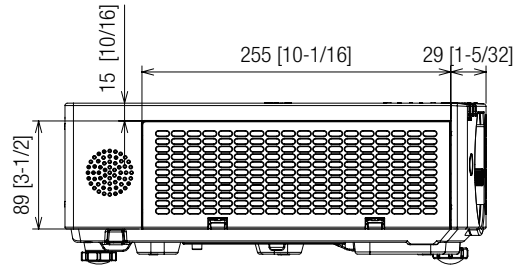
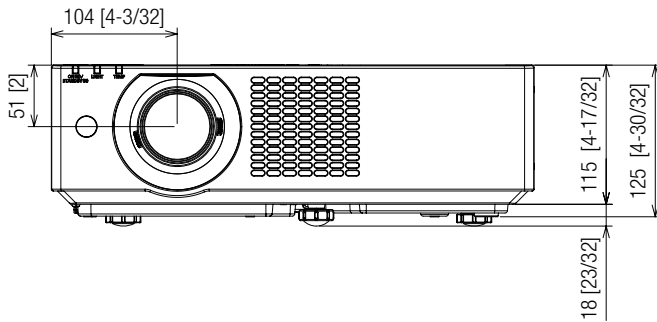
\*10 Part number suffix may differ depending on the license type.

\*11 In this document, the suffixes at the end of the model numbers are omitted.

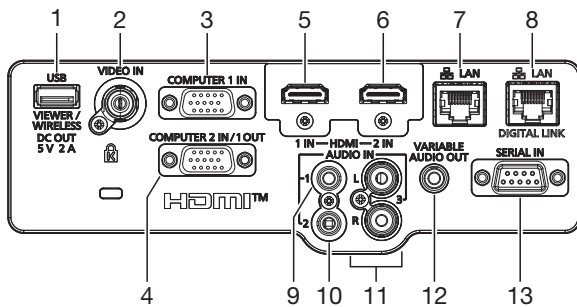
Dimensions



unit : mm (inch)  
NOTE: This illustration is not drawn to scale.

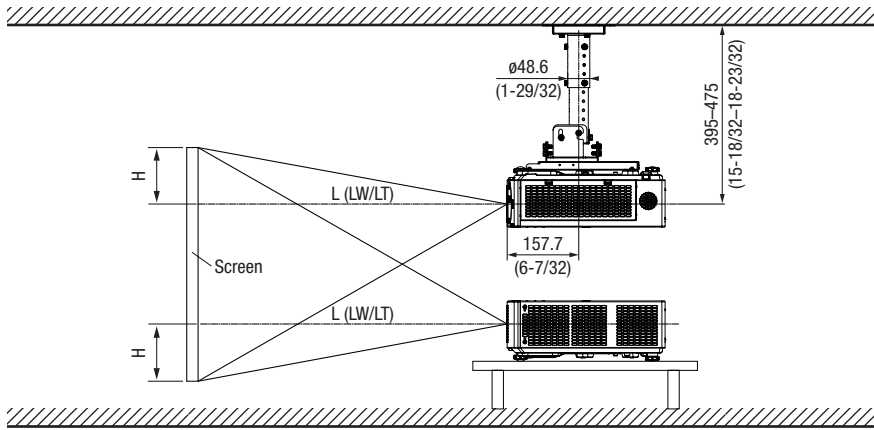


Terminals

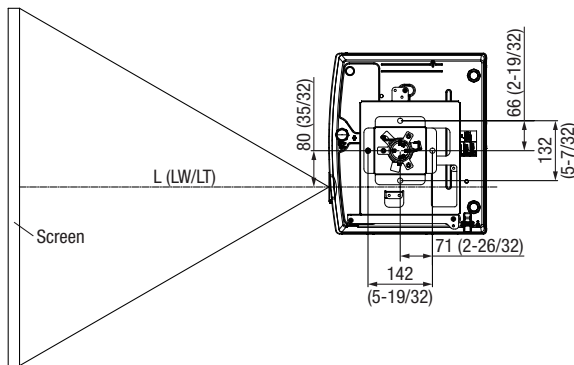


- 1 USB [VIEWER/WIRELESS/DC OUT] TERMINAL
- 2 VIDEO INPUT TERMINAL
- 3 COMPUTER 1 INPUT TERMINAL
- 4 COMPUTER 2 INPUT TERMINAL / OUTPUT TERMINAL
- 5 HDMI 1 INPUT TERMINAL
- 6 HDMI 2 INPUT TERMINAL
- 7 LAN TERMINAL
- 8 DIGITAL LINK/LAN TERMINAL
- 9 AUDIO IN 1 TERMINAL
- 10 AUDIO IN 2 TERMINAL
- 11 AUDIO IN 3 TERMINAL
- 12 VARIABLE AUDIO OUT TERMINAL
- 13 SERIAL INPUT TERMINAL

Standard setting-up position



unit : mm (inch)



NOTE:

Illustrations show the projector installed using optional ceiling mount bracket ET-PKL100H and projector mount bracket ET-PKV400B. This illustration is not drawn to scale.

Caution:

- All construction work should be done by a qualified technician.
- When mounting to the ceiling, use the special mounting bracket. Furthermore, in order to prevent it from falling down from the ceiling, use the supplied wire on the mounting bracket.

**Projection distance for 16:10 aspect ratio screen**

unit: meters (feet)

Projection size [diagonal]	Projection distance [L]		Height from the edge of screen to center of lens [H]	
	Min [wide]	Max [telephoto]		
0.76 m / 30"	0.68 (2.23)	1.12 (3.67)	0.022 – 0.201	(0.072 – 0.659)
1.02 m / 40"	0.93 (3.05)	1.51 (4.95)	0.030 – 0.270	(0.098 – 0.886)
1.27 m / 50"	1.16 (3.81)	1.89 (6.20)	0.037 – 0.337	(0.121 – 1.106)
1.52 m / 60"	1.39 (4.56)	2.26 (7.41)	0.045 – 0.403	(0.148 – 1.322)
1.78 m / 70"	1.64 (5.38)	2.66 (8.73)	0.052 – 0.472	(0.171 – 1.549)
2.03 m / 80"	1.87 (6.14)	3.03 (9.94)	0.060 – 0.538	(0.197 – 1.765)
2.29 m / 90"	2.12 (6.96)	3.43 (11.25)	0.067 – 0.607	(0.220 – 1.991)
2.54 m / 100"	2.35 (7.71)	3.80 (12.47)	0.075 – 0.673	(0.246 – 2.208)
3.05 m / 120"	2.83 (9.28)	4.57 (14.99)	0.090 – 0.808	(0.295 – 2.651)
3.81 m / 150"	3.54 (11.61)	5.72 (18.77)	0.112 – 1.010	(0.367 – 3.314)
5.08 m / 200"	4.73 (15.52)	7.64 (25.07)	0.150 – 1.346	(0.492 – 4.416)
6.35 m / 250"	5.92 (19.42)	9.56 (31.36)	0.187 – 1.683	(0.614 – 5.522)
7.62 m / 300"	7.11 (23.33)	11.48 (37.66)	0.224 – 2.019	(0.735 – 6.624)

**Projection distance for 16:9 aspect ratio screen**

unit: meters (feet)

Projection size [diagonal]	Projection distance [L]		Height from the edge of screen to center of lens [H]	
	Min [wide]	Max [telephoto]		
0.76 m / 30"	0.70 (2.30)	1.15 (3.77)	0.002 – 0.186	(0.007 – 0.610)
1.02 m / 40"	0.95 (3.12)	1.55 (5.09)	0.003 – 0.250	(0.010 – 0.820)
1.27 m / 50"	1.19 (3.90)	1.94 (6.36)	0.004 – 0.311	(0.013 – 1.020)
1.52 m / 60"	1.43 (4.69)	2.33 (7.64)	0.005 – 0.372	(0.016 – 1.220)
1.78 m / 70"	1.69 (5.54)	2.73 (8.96)	0.005 – 0.436	(0.016 – 1.430)
2.03 m / 80"	1.93 (6.33)	3.12 (10.24)	0.006 – 0.497	(0.020 – 1.631)
2.29 m / 90"	2.18 (7.15)	3.52 (11.55)	0.007 – 0.561	(0.023 – 1.841)
2.54 m / 100"	2.42 (7.94)	3.91 (12.83)	0.008 – 0.622	(0.026 – 2.041)
3.05 m / 120"	2.91 (9.55)	4.70 (15.42)	0.009 – 0.747	(0.030 – 2.451)
3.81 m / 150"	3.64 (11.94)	5.88 (19.29)	0.012 – 0.933	(0.039 – 3.061)
5.08 m / 200"	4.86 (15.94)	7.85 (25.75)	0.015 – 1.245	(0.049 – 4.085)
6.35 m / 250"	6.09 (19.98)	9.83 (32.25)	0.019 – 1.556	(0.062 – 5.105)
7.62 m / 300"	7.31 (23.98)	11.80 (38.71)	0.023 – 1.867	(0.075 – 6.125)

**Calculation of the projection distance**

For a screen size different from the above, use the equation below to calculate the projection distance.

Aspect ratio 16:10

minimum L (m) = (diagonal screen size in inches) × 0.0238 – 0.0294

maximum L (m) = (diagonal screen size in inches) × 0.0384 – 0.0319

Aspect ratio 16:9

minimum L (m) = (diagonal screen size in inches) × 0.0245 – 0.0294

maximum L (m) = (diagonal screen size in inches) × 0.0394 – 0.0319

Aspect ratio 4:3

minimum L (m) = (diagonal screen size in inches) × 0.0269 – 0.0294

maximum L (m) = (diagonal screen size in inches) × 0.0434 – 0.0319

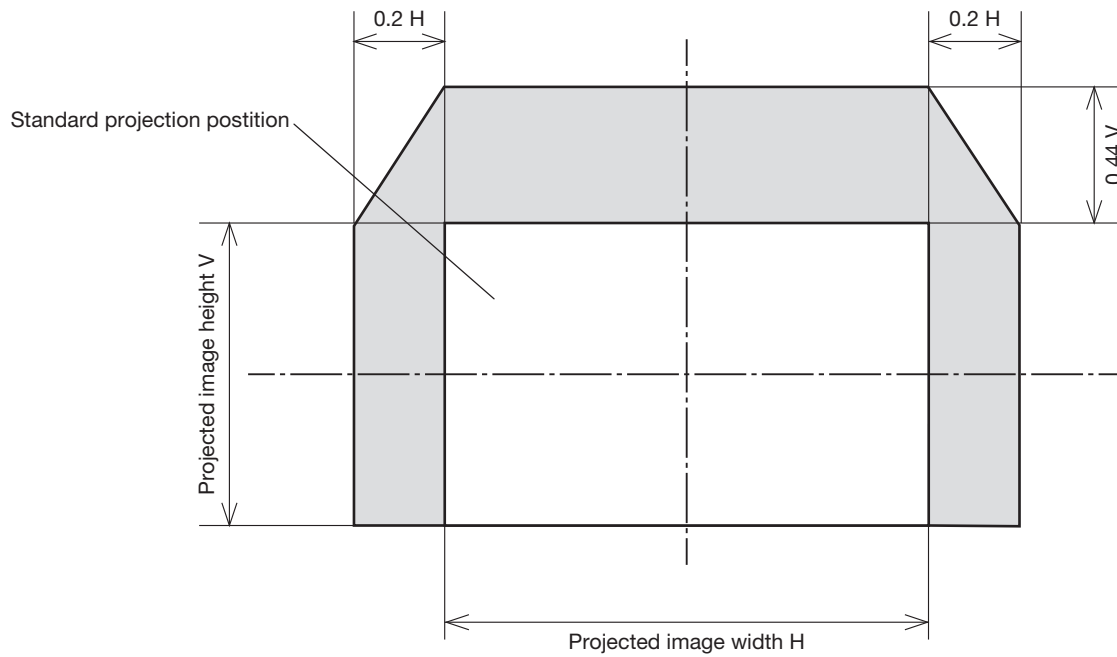
**NOTE:**

Distances calculated with the above equations will include a slight error.

- The value for L (distance to screen) varies slightly within ±5% depending on the zoom lens characteristics.
- When using keystone correction is used, the image is corrected in the direction that reduces its projected size.

**Shift range**

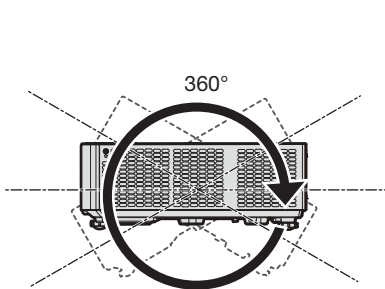
Optical axis shift function allows to shift the position of a projected image as shown below.



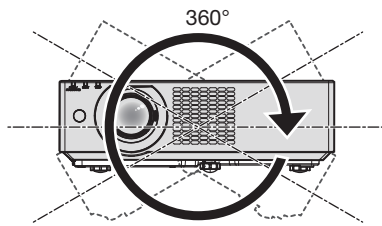
**Installable angle**

Install the projector at an angle within the range shown below.

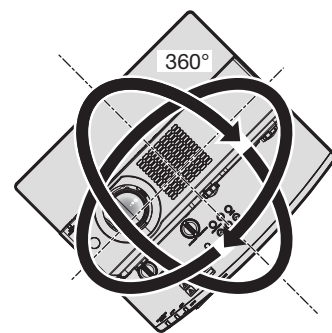
**FULL 360-degree projection**



**360° vertically**



**360° horizontally**



**360° tilted  
(combination of vertical and horizontal)**

**List of compatible signals**

The following table specifies the video signals compatible with the projector. This projector supports the signal with ✓ in the compatible signal column.

- Symbols that indicate formats are as follows.
  - V : VIDEO
  - R : RGB
  - Y : YC<sub>B</sub>CR/YP<sub>B</sub>PR
  - H : HDMI/DIGITAL LINK
- Input corresponding to each item in the plug and play column is as follows.
  - COMPUTER: COMPUTER1 / COMPUTER2 input
  - HDMI: HDMI1 / HDMI2 input
  - DIGITAL LINK: DIGITAL LINK input

Signal name	Resolution(Dots)	Scanning freq.		Dot clock freq. (MHz)	Format	Plug and play correspondence*1	
		Horizontal (kHz)	Vertical (Hz)			COMPUTER	HDMI/DIGITAL LINK
NTSC/NTSC4.43/ PAL-M/PAL60	720 x 480i	15.7	59.9	—	V	—	—
PAL/PAL-N/SECAM	720 x 576i	15.6	50.0	—	V	—	—
480 /60i	720 x 480i	15.7	59.9	13.5	R/Y	—	—
576 /50i	720 x 576i	15.6	50.0	13.5	R/Y	—	—
480 /60i	720(1 440) x 480i*2	15.7	59.9	27.0	H	—	—
576 /50i	720(1 440) x 576i*2	15.6	50.0	27.0	H	—	—
480 /60p	720 x 480	31.5	59.9	27.0	R/Y/H	—	✓
576 /50p	720 x 576	31.3	50.0	27.0	R/Y/H	—	✓
720 /60p	1 280 x 720	45.0	60.0*3	74.3	R/Y/H	—	✓
720 /50p	1 280 x 720	37.5	50.0	74.3	R/Y/H	—	✓
1080 /60i	1 920 x 1 080i	33.8	60.0*3	74.3	R/Y/H	—	✓
1080 /50i	1 920 x 1 080i	28.1	50.0	74.3	R/Y/H	—	✓
1080 /24p	1 920 x 1 080	27.0	24.0*3	74.3	R/Y/H	—	✓
1080 /24sF	1 920 x 1 080i	27.0	48.0*3	74.3	R/Y/H	—	—
1080 /25p	1 920 x 1 080	28.1	25.0	74.3	R/Y/H	—	—
1080 /30p	1 920 x 1 080	33.8	30.0*3	74.3	R/Y/H	—	—
1080 /60p	1 920 x 1 080	67.5	60.0*3	148.5	R/Y/H	—	✓
1080 /50p	1 920 x 1 080	56.3	50.0	148.5	R/Y/H	—	✓
3840 x 2160/24p	3840 x 2160	54.0	24.0*3	297.0	H	—	✓
3840 x 2160/25p	3840 x 2160	56.3	25.0	297.0	H	—	✓
3840 x 2160/30p	3840 x 2160	67.5	30.0*3	297.0	H	—	✓
4096 x 2160/24p	4096 x 2160	54.0	24.0*3	297.0	H	—	✓
4096 x 2160/25p	4096 x 2160	56.3	25.0	297.0	H	—	✓
4096 x 2160/30p	4096 x 2160	67.5	30.0*3	297.0	H	—	✓
640 x 400/70	640 x 400	31.5	70.1	25.2	R/H	—	—
640 x 400/85	640 x 400	37.9	85.1	31.5	R/H	—	—
640 x 480/60	640 x 480	31.5	59.9	25.2	R/H	✓	✓
640 x 480/67	640 x 480	35.0	66.7	30.2	R/H	—	—
640 x 480/73	640 x 480	37.9	72.8	31.5	R/H	✓	✓
640 x 480/75	640 x 480	37.5	75.0	31.5	R/H	✓	✓
640 x 480/85	640 x 480	43.3	85.0	36.0	R/H	—	—
800 x 600/56	800 x 600	35.2	56.3	36.0	R/H	✓	✓
800 x 600/60	800 x 600	37.9	60.3	40.0	R/H	✓	✓
800 x 600/72	800 x 600	48.1	72.2	50.0	R/H	✓	✓
800 x 600/75	800 x 600	46.9	75.0	49.5	R/H	✓	✓
800 x 600/85	800 x 600	53.7	85.1	56.3	R/H	—	—
832 x 624/75	832 x 624	49.7	74.6	57.3	R/H	✓	✓
1024 x 768/50*4	1 024 x 768	39.6	50.0	51.9	R/H	—	—
1024 x 768/60	1 024 x 768	48.4	60.0	65.0	R/H	✓	✓
1024 x 768/70	1 024 x 768	56.5	70.1	75.0	R/H	✓	✓
1024 x 768/75	1 024 x 768	60.0	75.0	78.8	R/H	✓	✓
1024 x 768/82	1 024 x 768	65.5	81.6	86.0	R/H	—	—
1024 x 768/85	1 024 x 768	68.7	85.0	94.5	R/H	—	—



Signal name	Resolution(Dots)	Scanning freq.		Dot clock freq. (MHz)	Format	Plug and play correspondence*1	
		Horizontal (kHz)	Vertical (Hz)			COMPUTER	HDMI/DIGITAL LINK
1024 x 768/100	1 024 x 768	81.4	100.0	113.3	R/H	—	—
1152 x 864/60	1 152 x 864	53.7	60.0	81.6	R/H	—	—
1152 x 864/75	1 152 x 864	67.5	75.0	108.0	R/H	—	—
1152 x 864/85	1 152 x 864	77.1	85.0	119.7	R/H	—	—
1152 x 870/75	1 152 x 870	68.7	75.1	100.0	R/H	✓	✓
1280 x 720/50	1 280 x 720	37.1	49.8	60.5	R/H	—	—
1280 x 720/60	1 280 x 720	44.8	59.9	74.5	R/H	—	—
1280 x 768/60*4	1 280 x 768	47.7	60.0	80.1	R/H	—	—
1280 x 768/60	1 280 x 768	47.8	59.9	79.5	R/H	—	—
1280 x 768/75	1 280 x 768	60.3	74.9	102.3	R/H	—	—
1280 x 768/85	1 280 x 768	68.6	84.8	117.5	R/H	—	—
1280 x 800/50	1 280 x 800	41.3	50.0	68.0	R/H	—	—
1280 x 800/60	1 280 x 800	49.7	59.8	83.5	R/H	—	—
1280 x 800/75	1 280 x 800	62.8	74.9	106.5	R/H	—	—
1280 x 800/85	1 280 x 800	71.6	84.9	122.5	R/H	—	—
1280 x 960/60	1 280 x 960	60.0	60.0	108.0	R/H	—	—
1280 x 1024/60*4	1 280 x 1 024	64.0	60.0	108.0	R/H	—	—
1280 x 1024/75	1 280 x 1 024	80.0	75.0	135.0	R/H	✓	✓
1280 x 1024/85	1 280 x 1 024	91.1	85.0	157.5	R/H	—	—
1366 x 768/50	1 366 x 768	39.6	49.9	69.0	R/H	—	—
1366 x 768/60	1 366 x 768	47.7	59.8	85.5	R/H	—	—
1366 x 768/60*4	1 366 x 768	47.7	60.0	84.7	R/H	—	—
1400 x 1050/60	1 400 x 1 050	65.3	60.0	121.8	R/H	—	—
1400 x 1050/60*4	1 400 x 1 050	65.2	60.0	122.6	R/H	—	—
1400 x 1050/75	1 400 x 1 050	82.2	75.0	155.9	R/H	—	—
1440 x 900/50*4	1 440 x 900	46.3	50.0	87.4	R/H	—	—
1440 x 900/60*4	1 440 x 900	55.9	60.0	106.5	R/H	—	—
1440 x 900/60	1 440 x 900	55.9	59.9	106.5	R/H	—	—
1600 x 900/50*4	1 600 x 900	46.3	50.0	97.0	R/H	—	—
1600 x 900/60*4	1 600 x 900	55.9	60.0	119.0	R/H	—	—
1600 x 1200/60	1 600 x 1 200	75.0	60.0	162.0	R/H	✓	✓
1680 x 1050/50	1 680 x 1 050	54.1	50.0	119.5	R/H	—	—
1680 x 1050/60	1 680 x 1 050	65.3	60.0	146.3	R/H	—	—
1680 x 1050/60*4	1 680 x 1 050	65.2	60.0	147.1	R/H	—	—
1920 x 1080/50	1 920 x 1 080	55.6	49.9	141.5	R/H	—	—
1920 x 1080/60*5	1 920 x 1 080	66.6	59.9	138.5	R/H	—	—
1920 x 1200/50	1 920 x 1 200	61.8	49.9	158.3	R/H	—	—
1920 x 1200/60*5	1 920 x 1 200	74.0	60.0	154.0	R/H	✓	✓

\*1 Signal with ✓ in the plug and play column is a signal described in the EDID (extended display identification data) of the projector. The signal that does not have ✓ in the plug and play column can also be input if it is described in the format column. The resolution may not be selected in the computer even if the projector is compatible with the signal that does not have ✓ in the plug and play column.

\*2 Pixel-Repetition signal (dot clock frequency 27.0 MHz) only

\*3 It also supports signals with vertical scanning frequency of 1 / 1.001 times.

\*4 When inputting appropriate analog signal, it can be displayed by making the setting suitable for the signal from the [PICTURE] menu → [RGB-SYSTEM]. For digital signal, the [RGB-SYSTEM] setting is unnecessary.

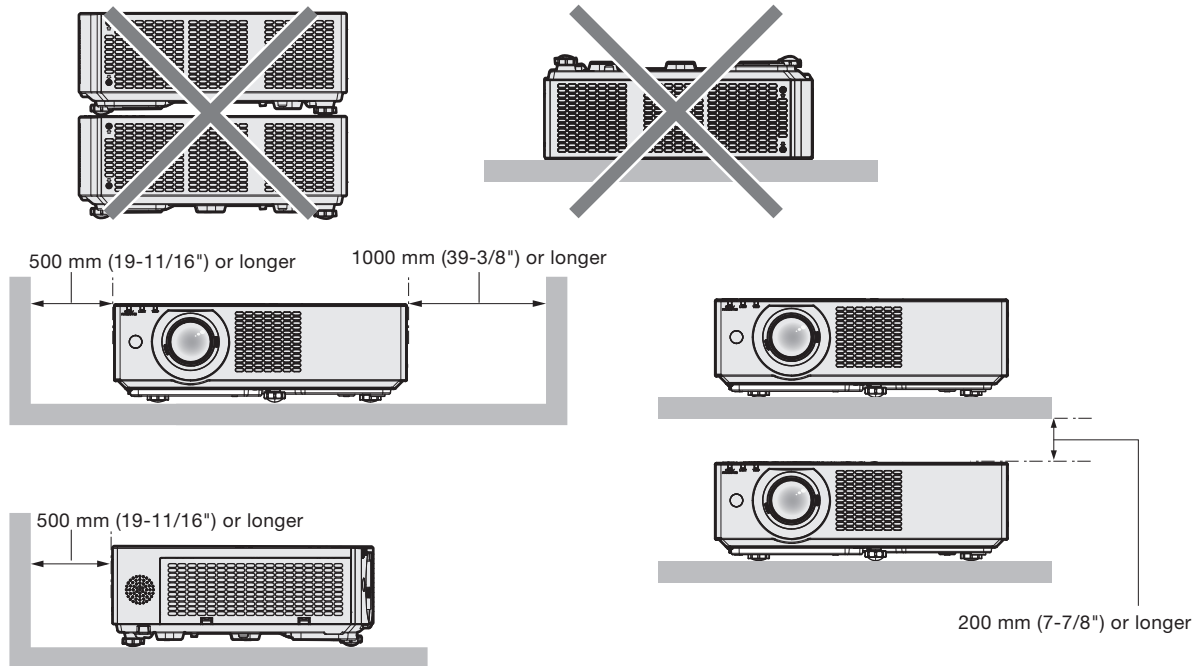
\*5 VESA CVT-RB (Reduced Blanking)-compliant

#### Note

- A signal with a different resolution is converted to the number of display dots. PT-VMZ50: 1 920 x 1 200
- The “i” at the end of the resolution indicates an interlaced signal.
- When interlaced signals are connected, flickering may occur on the projected image.
- The maximum transmission distance when connected with the long-reach communication method is 150 m (492'2"). In this case, the signal that the projector can receive is only up to 1080/60p (1 920 x 1 080 dots, dot clock frequency 148.5 MHz).
- Even the above signals exist, some image signals recorded in special method may not be displayed.

**Notes on projector placement and operation**

- Prevent hot and cool air from the air conditioning system to blow directly to the ventilation ports (intake and exhaust) of the projector.
- Do not stack projectors on top of each other.
- Do not block the ventilation ports (intake and exhaust) of the projector.



- Do not install the projector in a confined space. When installing the projector in a confined space, provide air conditioning or ventilation separately. Exhaust heat may accumulate when the ventilation is not enough, triggering the protection circuit of the projector.