

————— S P E C F I L E —————

Product Number : **PT-VW545N**

Product Name : LCD Projectors

LCD Projectors

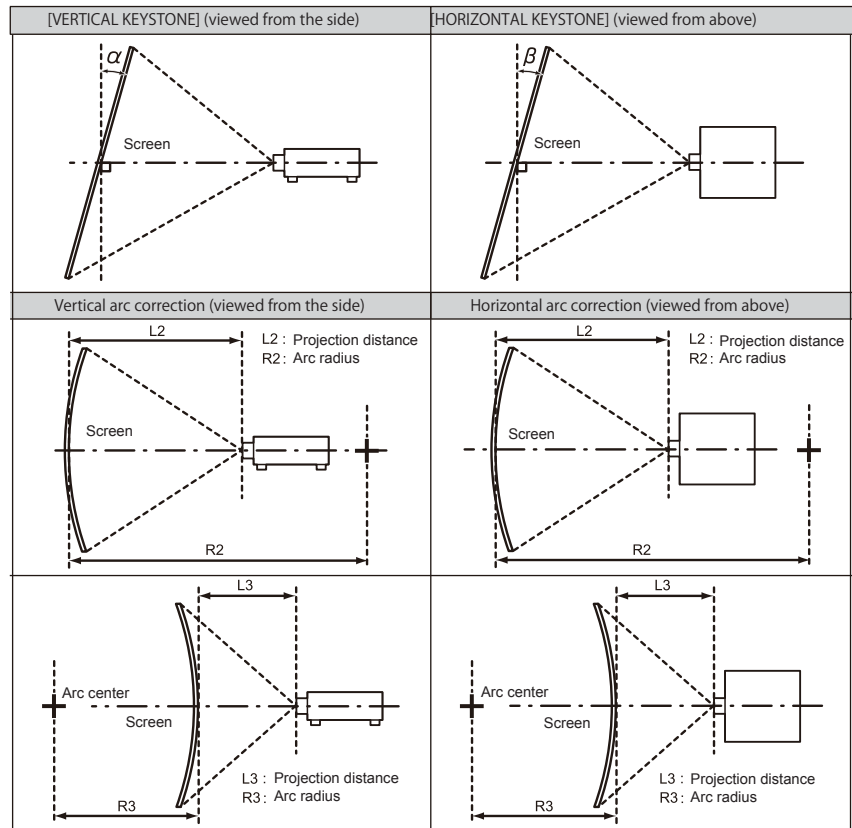
**Specifications**

Main unit			
Power supply			AC 100-240 V, 50/60 Hz
Power consumption*			385 W (North America), 400 W (other countries)
			When [STANDBY MODE] is set to [ECO] : approx. 0.3 W (North America, Taiwan), approx. 0.5 W (Other countries)
			When [STANDBY MODE] is set to [NORMAL] and [IN STANDBY MODE] of [AUDIO SETTING] is set to [OFF]: approx. 12 W
BTU value			1,314 BTU (North America), 1,365 BTU (Other countries)
LCD panel	Panel size		16.3 mm (0.64 inches) diagonal (16:10 aspect ratio)
	Display method		Transparent LCD panel (× 3, R/G/B)
	Drive method		Active matrix method
	Pixels		2,304,000 (1920 × 1200) × 3, total of 6,912,000 pixels
Lens			Manual zoom (1.6×), manual focus, F 1.6–1.9, f 15.31 – 24.64 mm
	Throw ratio		1.08–1.76:1
Lamp			280 W UHM lamp
Projection size			0.76–7.62 m (30–300 inches) diagonally, 16:10 aspect ratio
Colors			Full color (16,777,216 colors)
Light output* <sup>2</sup>			5,500 lumens (Lamp power: Normal, Dynamic mode, Iris off, Daylight View:off, Auto Power Save:off)
Center-to-corner uniformity			85%
Contrast ratio* <sup>2</sup>			16,000:1 (all white/all black, Image mode:Dynamic, Lamp power: Normal, Iris: On)
Resolution			1280 × 800 pixels (Input signals that exceed this resolution will be converted to 1280 × 800 pixels.)
Lamp replacement cycle			Normal: 5,000 hours, Eco1: 6,000 hours, Eco2: 7,000 hours
Filter replacement cycle			7,000 hours (Period varies depending on usage environment. It can be washed and reused up to 2 times.)
Scanning frequency	HDMI/DIGITAL LINK		•Moving image signal resolution: 480i (525i)* <sup>3</sup> , 576i (625i)* <sup>3</sup> , 480p (525p), 576p (625p), 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/25p, 1080 (1125)/24p, 1080 (1125)/24sF, 1080 (1125)/30p, 1080 (1125)/60p, 1080 (1125)/50p Still image signal resolution: 640 x 400 to 1920 x 1200 (non-interlace) •Dot clock frequency: 25 MHz to 162 MHz fH: 15- 91kHz, fV: 24 - 100Hz, dot clock: 162 MHz or less
	RGB		
	YPbPr (YCbCr)		480i (525i): fH 15.73 kHz; fV 59.94 Hz, 576i (625i): fH 15.63 kHz; fV 50 Hz, 480p (525p): fH 31.47 kHz; fV 59.94 Hz, 576p (625p): fH 31.25 kHz; fV 50 Hz, 720 (750)/60p: fH 45.00 kHz; fV 60 Hz, 720 (750)/50p: fH 37.50 kHz; fV 50 Hz, 1080 (1125)/60i: fH 33.75 kHz; fV 60 Hz, 1080 (1125)/50i: fH 28.13 kHz; fV 50 Hz, 1080 (1125)/25p: fH 28.13 kHz; fV 25 Hz, 1080 (1125)/24p: fH 27.00 kHz; fV 24 Hz, 1080 (1125)/24sF: fH 27.00 kHz; fV 48 Hz, 1080 (1125)/30p: fH 33.75 kHz; fV 30 Hz, 1080 (1125)/60p: fH 67.50 kHz; fV 60 Hz, 1080 (1125)/50p: fH 56.25 kHz; fV 50 Hz
	Video		fH: 15.73 kHz / 15.63 kHz fV: 59.94 Hz / 50 Hz [NTSC/NTSC4.43/PAL/PAL60/PAL-N/PAL-M/SECAM]
Installation			CEILING/DESK/AUTO, FRONT/REAR
Speaker			4.0 cm round-type x 1
Maximum usable volume output			10 W (monaural)

LCD Projectors

Keystone correction range

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	Min. value of R2/L2	Min. value of R3/L3
±35	±35	±2	±5	1.4	2.9	0.7	1.6



When Vertical keystone and Horizontal keystone are used simultaneously, correction cannot be made exceeding total of 55°

Optical axis shift

Vertical 0 – +44% from center of screen (manual)

U/D ratio 17:1 (when on top end)

Terminals

COMPUTER 1 IN

high-density D-Sub 15 p (female)

[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/PR (CB/CR): 0.7 Vp-p, 75 ohms

COMPUTER 2 IN / 1 OUT

high-density D-Sub 15 p (female)

[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/PR (CB/CR): 0.7 Vp-p, 75 ohms

VIDEO IN

Pin jack 1.0 Vp-p, 75 ohms

HDMI 1 IN

HDMI 19 pin, HDCP and Deep color compatible

Audio signals : Linear PCM (Sample frequency : 48 kHz/44.1 kHz/32 kHz )

HDMI 2 IN

HDMI 19 pin, HDCP and Deep color compatible

Audio signals : Linear PCM (Sample frequency : 48 kHz/44.1 kHz/32 kHz )

AUDIO IN 1

M3 stereo mini jack, 0.5 V[rms], input imedance 22 k ohms and more

AUDIO IN 2

M3 stereo mini jack, 0.5 V[rms], input imedance 22 k ohms and more

AUDIO IN 3

Pin jack x 2(L-R), 0.5 V[rms], input imedance 22 k ohms and more

VARIABLE AUDIO OUT

M3 stereo mini jack, 0 V[rms] to 2.0 V[rms] variable, output imedance 2.2 k ohms and less

USB A (VIEWER/PAIRING )

USB connector (type A)

USB B (DISPLAY)

USB connector (type B)

SERIAL IN

D-sub 9 pin, RS-232C compliant, for computer control use

DIGITAL LINK / LAN

RJ-45, for network, DIGITAL LINK connection, PLink™ compatible, 100Base-TX

LCD Projectors

Power cord length	3.0 m(9 ft 10 in)(India), 2.0 m(6 ft 7 in)(Other countries)
Cabinet materials	Molded plastic
Dimensions (W × H ×D)	389 × 125 <sup>**4</sup> × 332mm (15-5/16 × 4-29/32 <sup>**4</sup> × 13-1/16inches)
Weight <sup>**5</sup>	Approx. 4.9 kg (10.8 lbs)
Noise level <sup>**2</sup>	37dB (LAMP POWER: NORMAL/ECO1), 29dB (LAMP POWER: ECO2)
Operating environment	Temperature <sup>**6</sup>
	Humidity
Remote control unit	
Power supply	DC 3 V (AAA/R03/LR03 battery × 2)
Operation range	Approx. 7 m (23 ft) when operated from directly in front of the signal receptor
Dimensions (W × H ×D)	48 x 145 x 27 mm (1-7/8" x 5-23/32" x 1/16")
Weight	Approx. 102g (3.60 ozs.) (including batteries)
Wireless LAN <sup>**7</sup>	
Specification standards	for North America: IEEE802.11b/g/n: 2.412 GHz - 2.462 GHz IEEE802.11a/n: 5.180 GHz - 5.825 GHz (except 5.600 GHz - 5.650 GHz ) for other countries: IEEE802.11b/g/n: 2.412 GHz - 2.472 GHz IEEE802.11a/n: 5.745 GHz - 5.805 GHz "
Wireless channel	for North America: IEEE802.11b/g/n: 1 - 11 channel IEEE802.11a/n: 36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/153/157/161/165 channel for other countries: IEEE802.11b/g/n: Passive scanning IEEE802.11a/n: Passive scanning
Communication distance	Approx. 30 m (depending on the operating environment)

Wireless Manager ME 6.4  
and  
**Plug and Share**

To use this software, the computer must satisfy the following requirements.

system requirements (Windows)	OS:	Microsoft Windows 7 Ultimate 32/64 bit, Professional 32/64 bit, Home Premium 32/64 bit Up to SP1 supported Microsoft Windows 8.1 Windows 8.1 32/64 bit, Windows 8.1 Pro 32/64 bit Microsoft Windows 10 Windows 10 Home 32/64 bit, Windows 10 Pro 32/64 bit The Japanese, English and Chinese versions of the above operating systems are supported.
	Web browser <sup>**8</sup> :	For WEB Control function: Internet Explorer 11.0, Microsoft Edge For Browser Remote Control function: Internet Explorer 11.0, Microsoft Edge
	CPU:	Intel Core 2 Duo or higher processor or compatible processor installed Intel Core i5 or higher recommended for projection
	Memory:	1024 MB or more
	Hard disk:	At least 100 MB free space* 8 (Extra free space is required to save the projector information.)
	LAN environment:	For connection with a wired LAN: LAN connector (100BASE-TX) required For connection with a wireless LAN: Wireless LAN adapter (IEEE802.11a/b/g/n standard compliance) required
	Monitor screen:	High Color (16 bits) or up
	Desktop area:	1024 dots × 768 dots or more 2048 dots × 1536 dots or less

LCD Projectors

Wireless Manager ME 6.4

**and  
Plug and Share**

To use this software, the computer must satisfy the following requirements.

system requirements (Mac)	OS* <sup>9</sup> :	Mac OS X v10 .10, Mac OS X v10.11, macOS 10.12 The Japanese, English and Chinese versions of the above operating systems are supported.
	Web browser* <sup>8</sup> :	For WEB Control function: Safari 8.0/9.0/10.0 For Browser Remote Control function: Safari 8.0/9.0/10.0
	CPU:	Intel Core 2 Duo or higher processor or compatible processor installed Intel Core i5 or higher recommended for projection
	Memory:	1024 MB or more
	Hard disk:	At least 100 MB free space * <sup>8</sup> (Extra free space is required to save the projector information.)
	LAN environment:	For connection by wired LAN: LAN terminal (100BASE-TX) is necessary For connection by wireless LAN: Wireless LAN adapter (IEEE802.11 a/b/g/n) is necessary
	Monitor screen:	High Color (16 bits) or up
	Desktop area:	1024 dots × 768 dots or more 2880 dots × 1800 dots or less

Other Applications

Monitoring and Control Software <Bundle>  
Logo Transfer Software <Bundle>  
Wireless PJ (for iOS/Android) <Web download>  
Early Warning Software <Option>

Mirroring operating environment

Terminal : Windows PC and Android compatible with Miracast  
Web browser <for Moderator mode> :  
Windows : Internet Explorer 11.0  
Android : Google Chrome (Android 4.4/5.0/5.1/6.0/7.0)

Supplied accessories

Power code : Europe and Asia model (x 2), Other countries (x 1)  
Batteries for remote control unit (× 2) (R03/LR03/AAA type)  
Lens cap (× 1)  
String for lens cap (× 1)  
Application Guide (× 1)  
Software CD-ROM (× 1)  
(Operating instructions, Wireless Manager ME 6.4, Multi Projector Monitoring and Control Software, Logo Transfer Software)

Optional accessories

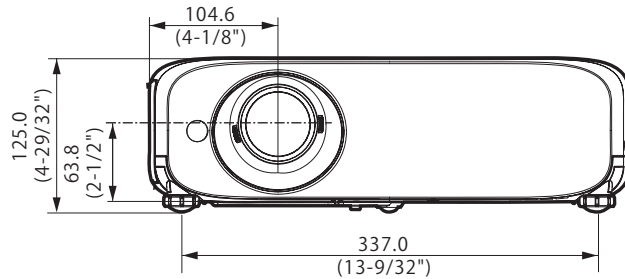
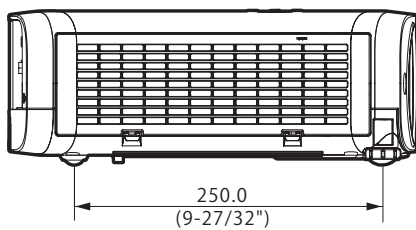
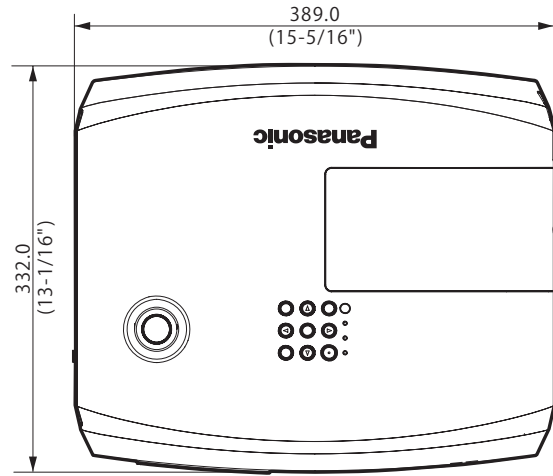
Ceiling Mount Bracket	for High ceilings	ET-PKL100H
Ceiling Mount Bracket	for Low ceilings	ET-PKL100S
Ceiling Mount Bracket	Projector Mount Bracket	ET-PKV400B
Replacement Lamp Unit		ET-LAV400
Replacement Filter Unit		ET-RFV410
Digital Interface Box		ET-YFB100G
DIGITAL LINK switcher		ET-YFB200G
Early Warning Software		ET-SWA100 serie s
Easy Wireless Stick		ET-UW100 (The availability of ET-UW100 varies depending on the country. )

Weights and dimensions shown are approximate. **Specifications** subject to change without notice.

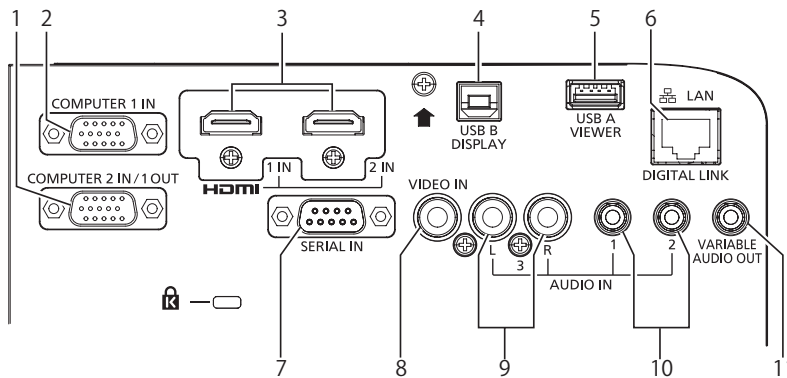
- \*1 When the Standby mode is set to Eco, network functions such as power on over the LAN network will not operate. Also, only certain commands can be received for external control using the serial terminal.
- \*2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
- \*3 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal) for 480i(525i) and 576i(625i)
- \*4 When adjustable feet shortened.
- \*5 Average value. May differ depending on models.
- \*6 If [LAMP POWER] set to [NORMAL], [LAMP MODE] will be switched to [ECO1] automatically when the operating environment temperature is 35° C (95° F) to 40° C (104° F).
- \*7 Frequency range and channel are depend on settings.
- \*8 Wireless Manager ME 6.4 only
- \*9 Operation is not guaranteed on an OS that was not pre-installed or clean-installed.

Dimensions

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

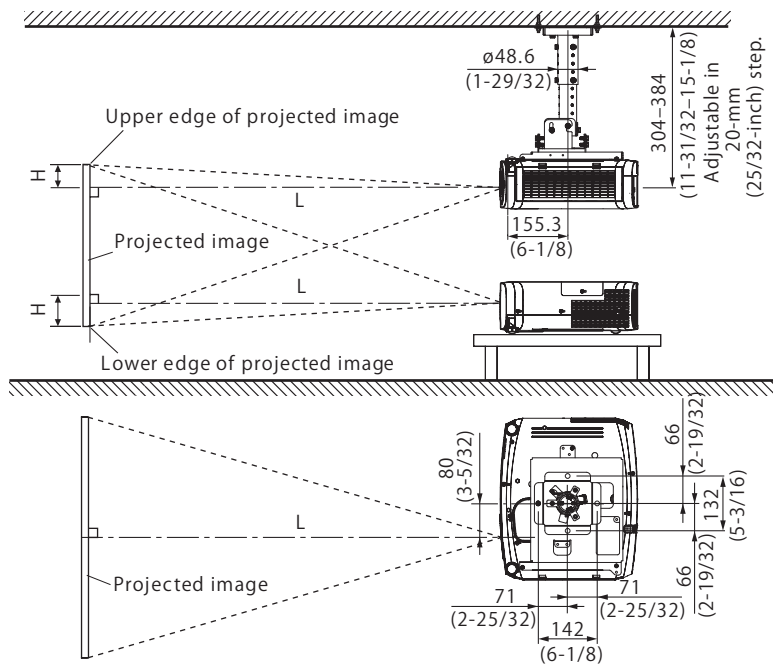


Terminals



- |  |                                  |
|--|----------------------------------|
| 1 Computer 2 input / computer 1 output | 7 Serial input                   |
| 2 Computer 1 input                     | 8 Video input                    |
| 3 HDMI input 1 / HDMI input 2          | 9 Audio input 3                  |
| 4 USB B connector                      | 10 Audio input 1 / Audio input 2 |
| 5 USB A connector                      | 11 Audio output                  |
| 6 DIGITAL LINK / LAN connector         |                                  |

Standard setting-up position



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.

unit : mm (inch)

Caution:

- All construction work should be done by a qualified technician.
- When mounting to the ceiling, use the special mounting bracket. To prevent the projector from dropping, attach the wire that is included with the projector between the mounting bracket and the ceiling.

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"	0.92 (3.02)	1.51 (4.95)	0.030 - 0.270 (0.098 - 0.886)
1.27 m / 50"	1.15 (3.77)	1.88 (6.17)	0.037 - 0.337 (0.121 - 1.106)
1.52 m / 60"	1.38 (4.53)	2.26 (7.41)	0.045 - 0.403 (0.148 - 1.322)
1.78 m / 70"	1.62 (5.31)	2.65 (8.69)	0.052 - 0.472 (0.171 - 1.549)
2.03 m / 80"	1.86 (6.10)	3.03 (9.94)	0.060 - 0.538 (0.197 - 1.765)
2.29 m / 90"	2.10 (6.89)	3.42 (11.22)	0.067 - 0.607 (0.220 - 1.991)
2.54 m / 100"	2.33 (7.64)	3.79 (12.43)	0.075 - 0.673 (0.246 - 2.208)
3.05 m / 120"	2.80 (9.19)	4.56 (14.96)	0.090 - 0.808 (0.295 - 2.651)
3.81 m / 150"	3.51 (11.52)	5.70 (18.70)	0.112 - 1.010 (0.367 - 3.314)
5.08 m / 200"	4.69 (15.39)	7.61 (24.97)	0.150 - 1.346 (0.492 - 4.416)
6.35 m / 250"	5.87 (19.26)	9.52 (31.23)	0.187 - 1.683 (0.614 - 5.522)
7.62 m / 300"	7.05 (23.13)	11.43 (37.50)	0.224 - 2.019 (0.735 - 6.624)

NOTE:

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

LCD Projectors

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"	0.94 (3.08)	1.55 (5.09)	0.003 - 0.250 (0.010 - 0.820)	
1.27 m / 50"	1.18 (3.87)	1.94 (6.36)	0.004 - 0.311 (0.013 - 1.020)	
1.52 m / 60"	1.42 (4.66)	2.32 (7.61)	0.005 - 0.372 (0.016 - 1.220)	
1.78 m / 70"	1.67 (5.48)	2.72 (8.92)	0.005 - 0.436 (0.016 - 1.430)	
2.03 m / 80"	1.91 (6.27)	3.11 (10.20)	0.006 - 0.497 (0.020 - 1.631)	
2.29 m / 90"	2.16 (7.09)	3.51 (11.52)	0.007 - 0.561 (0.023 - 1.841)	
2.54 m / 100"	2.39 (7.84)	3.90 (12.80)	0.008 - 0.622 (0.026 - 2.041)	
3.05 m / 120"	2.88 (9.45)	4.69 (15.39)	0.009 - 0.747 (0.030 - 2.451)	
3.81 m / 150"	3.61 (11.84)	5.86 (19.23)	0.012 - 0.933 (0.039 - 3.061)	
5.08 m / 200"	4.82 (15.81)	7.83 (25.69)	0.015 - 1.245 (0.049 - 4.085)	
6.35 m / 250"	6.03 (19.78)	9.79 (32.12)	0.019 - 1.556 (0.062 - 5.105)	
7.62 m / 300"	7.24 (23.75)	11.75 (38.55)	0.023 - 1.867 (0.075 - 6.125)	

NOTE:

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

Projection distance for 4:3 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"	0.77 (2.53)	1.27 (4.17)	0.025 - 0.228 (0.082 - 0.748)	
1.02 m / 40"	1.04 (3.41)	1.71 (5.61)	0.034 - 0.306 (0.112 - 1.004)	
1.27 m / 50"	1.31 (4.30)	2.14 (7.02)	0.042 - 0.381 (0.138 - 1.250)	
1.52 m / 60"	1.57 (5.15)	2.56 (8.40)	0.051 - 0.456 (0.167 - 1.496)	
1.78 m / 70"	1.84 (6.04)	3.00 (9.84)	0.059 - 0.534 (0.194 - 1.752)	
2.03 m / 80"	2.10 (6.89)	3.43 (11.25)	0.068 - 0.609 (0.223 - 1.998)	
2.29 m / 90"	2.38 (7.81)	3.87 (12.70)	0.076 - 0.687 (0.249 - 2.254)	
2.54 m / 100"	2.64 (8.66)	4.30 (14.11)	0.085 - 0.762 (0.279 - 2.500)	
3.05 m / 120"	3.18 (10.43)	5.17 (16.96)	0.102 - 0.915 (0.335 - 3.002)	
3.81 m / 150"	3.98 (13.06)	6.46 (21.19)	0.127 - 1.143 (0.417 - 3.750)	
5.08 m / 200"	5.31 (17.42)	8.62 (28.28)	0.169 - 1.524 (0.554 - 5.000)	
6.35 m / 250"	6.65 (21.82)	10.78 (35.37)	0.212 - 1.905 (0.696 - 6.250)	
7.62 m / 300"	7.98 (26.18)	12.95 (42.49)	0.254 - 2.286 (0.833 - 7.500)	

NOTE:

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.

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) × 0.0236 - 0.0295

maximum L (m) = (diagonal screen size in inches) × 0.0382 - 0.0272

Aspect ratio 16:9

minimum L (m) = (diagonal screen size in inches) × 0.0242 - 0.0295

maximum L (m) = (diagonal screen size in inches) × 0.0393 - 0.0272

Aspect ratio 4:3

minimum L (m) = (diagonal screen size in inches) × 0.0267 - 0.0295

maximum L (m) = (diagonal screen size in inches) × 0.0432 - 0.0272

NOTE:

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

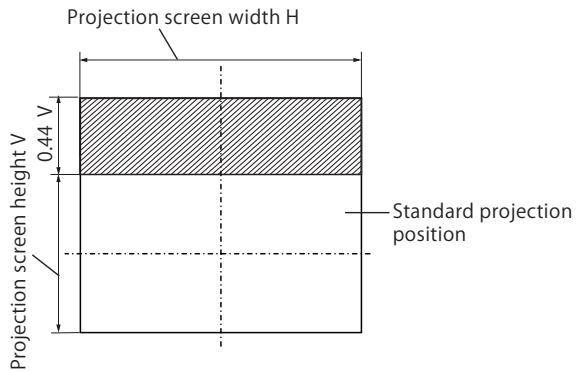


LCD Projectors

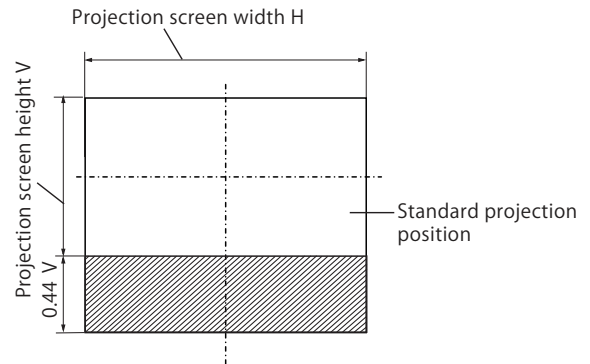
Shift range

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

• Floor mount



• Ceiling mount

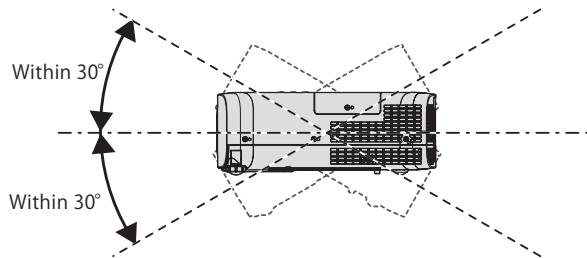


Installable angle

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

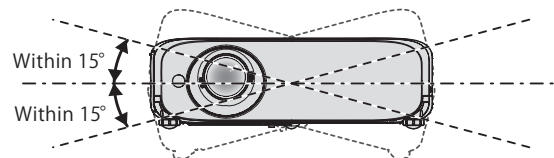
• Vertical direction

The projector may be installed at a vertical angle of 30°.



• Horizontal direction

The projector may be installed at a horizontal angle of 15°.



LCD Projectors

List of compatible signals

The following table specifies the video signals compatible with the projector.

This projector supports the signal with I 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)

• The compatible signals of the DIGITAL LINK input are the same as the compatible signals of the HDMI input .

• Input corresponding to each item in the plug and play column is as follows.

--COMPUTER: COMPUTER1 / COMPUTER2 input

--HDMI/DL: HDMI1 / HDMI2 input, DIGITAL LINK input

Compatible signal	Resolution (Dots)	Scanning freq.		Dot clock freq. (MHz)	Format	Plug and Play*1	
		H (KHz)	V (Hz)			COMPUTER	HDMI/DL
NTSC/NTSC4.43/PAL-M/PAL60	720 x 480i	15.7	59.9	—	V/S	—	—
PAL/PAL-N/SECAM	720 x 576i	15.6	50.0	—	V/S	—	—
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(1440)x 480i*2	15.7	59.9	27.0	H	—	—
576/50i	720(1440)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	1280 x 720	45.0	60.0	74.3	R/Y/H	—	✓
720/50p	1280 x 720	37.5	50.0	74.3	R/Y/H	—	✓
1080/60i	1920 x 1080i	33.8	60.0	74.3	R/Y/H	—	✓
1080/50i	1920 x 1080i	28.1	50.0	74.3	R/Y/H	—	✓
1080/24p	1920 x 1080	27.0	24.0	74.3	R/Y/H	—	✓
1080/24sF	1920 x 1080i	27.0	48.0	74.3	R/Y/H	—	—
1080/25p	1920 x 1080	28.1	25.0	74.3	R/Y/H	—	—
1080/30p	1920 x 1080	33.8	30.0	74.3	R/Y/H	—	—
1080/60p	1920 x 1080	67.5	60.0	148.5	R/Y/H	—	✓
1080/50p	1920 x 1080	56.3	50.0	148.5	R/Y/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	1024 x 768	39.6	50.0	51.9	R/H	—	—
1024 x 768/60	1024 x 768	48.4	60.0	65.0	R/H	✓	✓
1024 x 768/70	1024 x 768	56.5	70.1	75.0	R/H	✓	✓
1024 x 768/75	1024 x 768	60.0	75.0	78.8	R/H	✓	✓
1024 x 768/82	1024 x 768	65.5	81.6	86.0	R/H	—	—
1024 x 768/85	1024 x 768	68.7	85.0	94.5	R/H	—	—
1024 x 768/100	1024 x 768	81.4	100.0	113.3	R/H	—	—
1152 x 864/60	1152 x 864	53.7	60.0	81.6	R/H	—	—
1152 x 864/75	1152 x 864	67.5	75.0	108.0	R/H	—	—
1152 x 864/85	1152 x 864	77.1	85.0	119.7	R/H	—	—
1152 x 870/75	1152 x 870	68.7	75.1	100.0	R/H	✓	✓
1280 x 720/50	1280 x 720	37.1	49.8	60.5	R/H	—	—
1280 x 720/60	1280 x 720	44.8	59.9	74.5	R/H	—	—

Compatible signal	Re solution (Dots)	Sc anning freq.		Dot clock freq. (MHz)	Format	Plug and Play*1	
		H (KHz)	V (Hz)			COMPUTER	HDMI/DL
1280 x 768/60 *3	1280 x 768	47.7	60.0	80.1	R/H	—	—
1280 x 768/60	1280 x 768	47.8	59.9	79.5	R/H	—	—
1280 x 768/75	1280 x 768	60.3	74.9	102.3	R/H	—	—
1280 x 768/85	1280 x 768	68.6	84.8	117.5	R/H	—	—
1280 x 800/50	1280 x 800	41.3	50.0	68.0	R/H	—	—
1280 x 800/60	1280 x 800	49.7	59.8	83.5	R/H	✓	✓
1280 x 800/75	1280 x 800	62.8	74.9	106.5	R/H	—	—
1280 x 800/85	1280 x 800	71.6	84.9	122.5	R/H	—	—
1280 x 960/60	1280 x 960	60.0	60.0	108.0	R/H	—	—
1280 x 1024/60	1280 x 1024	64.0	60.0	108.0	R/H	—	—
1280 x 1024/75	1280 x 1024	80.0	75.0	135.0	R/H	✓	✓
1280 x 1024/85	1280 x 1024	91.1	85.0	157.5	R/H	—	—
1366 x 768/50	1366 x 768	39.6	49.9	69.0	R/H	—	—
1366 x 768/60 *3	1366 x 768	47.7	60.0	84.7	R/H	—	—
1366 x 768/60	1366 x 768	47.7	59.8	85.5	R/H	—	—
1400 x 1050/60 *3	1400 x 1050	65.2	60.0	122.6	R/H	—	—
1400 x 1050/60	1400 x 1050	65.3	60.0	121.8	R/H	—	—
1400 x 1050/75	1400 x 1050	82.2	75.0	155.9	R/H	—	—
1440 x 900/50 *3	1440 x 900	46.3	50.0	87.4	R/H	—	—
1440 x 900/60 *3	1440 x 900	55.9	60.0	106.5	R/H	—	—
1440 x 900/60	1440 x 900	55.9	59.9	106.5	R/H	—	—
1600 x 900/50 *3	1600 x 900	46.3	50.0	97.0	R/H	—	—
1600 x 900/60 *3	1600 x 900	55.9	60.0	119.0	R/H	—	—
1600 x 1200/60	1600 x 1200	75.0	60.0	162.0	R/H	✓	✓
1680 x 1050/50	1680 x 1050	54.1	50.0	119.5	R/H	—	—
1680 x 1050/60 *3	1680 x 1050	65.2	60.0	147.1	R/H	—	—
1680 x 1050/60	1680 x 1050	65.3	60.0	146.3	R/H	—	—
1920 x 1080/50	1920 x 1080	55.6	49.9	141.5	R/H	—	—
1920 x 1080/60 *4	1920 x 1080	66.6	59.9	138.5	R/H	—	—
1920 x 1080/60 *5	1920 x 1080	67.2	60.0	173.0	C	—	—
1920 x 1200/50	1920 x 1200	61.8	49.9	158.3	R/H	—	—
1920 x 1200/60 *4	1920 x 1200	74.0	60.0	154.0	R/H	—	—
1920 x 1200/60 *5	1920 x 1200	74.6	59.9	193.3	C	—	—

\*1 Signal with l 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 l 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 l in the plug and play column

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

\*3 If pertinent analog signal is input, it can be displayed when the setting suitable for the signal is made on [PICTURE] menu → [RGB SYSTEM].

It is no need to setting when input the digital signal.

\*4 VESA CVT-RB (Reduced Blanking)-compliant

\*5 Samples the pixels in the image processing circuit and displays the image.

NOTE:

• A signal with a different resolution is converted to the number of display dots. The number of display dots is as follows.

1920 x 1200

• The "i" at the end of the resolution indicates an interlaced signal.

• When interlaced signals are connected, flickering may occur on the projected image.

• DIGITAL LINK input compatible signal is the same as HDMI input compatible signal.

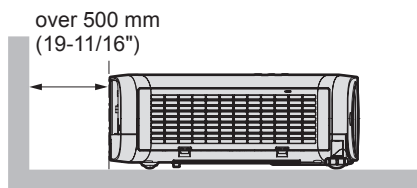
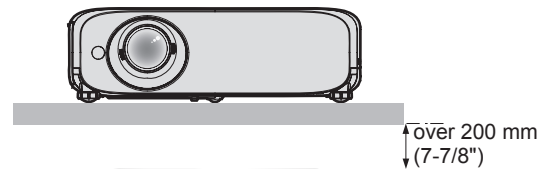
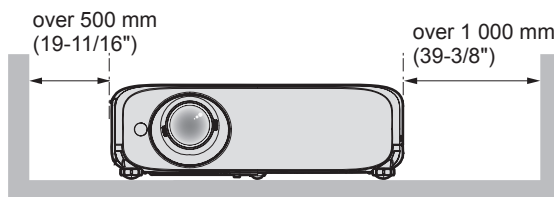
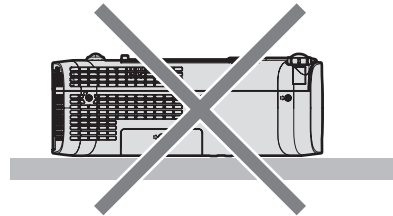
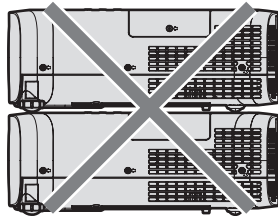
• Even the above signals exist, some image signals recorded in special method may not be displayed.

## LCD Projectors

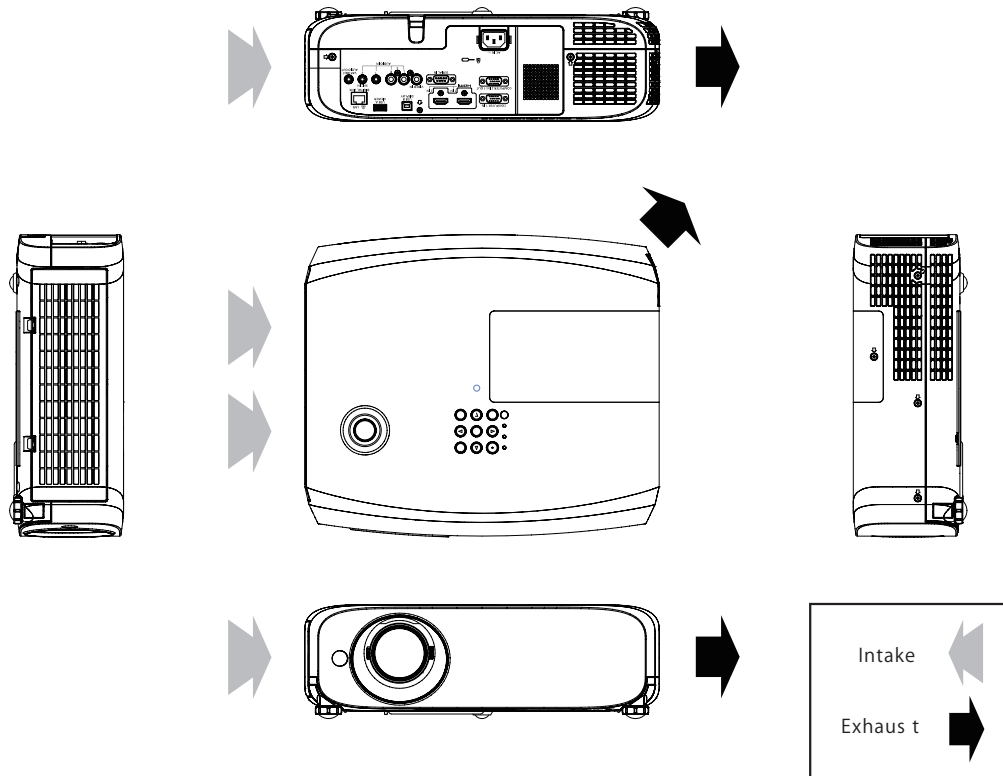
## Notes on projector placement and operation

The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.

1. Never place objects on top of the projector while it is operating.
2. Make sure there is the unobstructed space as shown below or more around the projector's exhaust openings. In addition to this space, also ensure that there is a sufficient work space for removing and installing the lamp, filter and other parts.
3. Make sure that nothing blocks the projector's air intake and exhaust openings. Also, install the projector so that cool or hot air from other air conditioning equipment does not flow directly toward the projector's air intake or exhaust openings.
4. Do not install the projector in an enclosed space. If it is necessary to install it in an enclosed space, add a separate ventilation system. If ventilation is insufficient, hot air will accumulate at the intake opening. This may cause the projector's protective circuit to interrupt projector operation.



Direction of air intake and exhaust



Operating the projector continuously

1. If the projector is to be operated continuously 12 hours or more, lamp replacement cycle duration becomes shorter.
2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods (one hour or less).

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations.

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