Panasonic

SPECFILE Product Number : PT-**TW342** Product Name : LCD Projectors

Specifications

•		
Main unit		
Power supply		AC100–240V 3.5A 50/60 Hz
Power consumption		300W
		6W when Standby mode set to Normal,
		0.5W when Standby mode set to Eco*1
LCD panel	Panel size	15.0 mm (0.59 inches) diagonal (16:10 aspect ratio)
	Display method	Transparent LCD panel (× 3, R/G/B)
	Drive method	Active matrix method
	Pixels	1,024,000 (1,280 × 800) × 3, total of 3,072,000 pixels
	Pixel configuration	Stripe
Lens	i kor comgaration	Fixed zoom, manual focus F1.8 f 6.08mm
Throw ratio		0.46:1
Lamp		230 W UHM lamp
Lamp/Filter*2 Replacemer	nt Cycle	Normal: 5,000hrs / Eco1: 6,000hrs / Eco2: 10,000hrs
Screen size		50-100 inches (1.27-2.54 m) diagonally, 16:10 aspect ratio
Colors		Full color (16,777,216 colors)
Brightness*3		3,300 lumens (LAMP POWER: NORMAL)
Center-to-corner uniform	itv*3	80%
Contrast*3	ity	12,000:1 (all white/all black, Image mode:Dynamic,
Contrast		Lamp control: Normal, Iris: On)
Resolution		$1,280 \times 800$ pixels (Input signals that exceed this resolution will be
ricoolution		converted to $1,280 \times 800$ pixels.)
Optical axis shift		7.25:1 (fixed)
Keystone correction range		Vertical: $\pm 15^{\circ}$, horizontal: $\pm 15^{\circ}$
Installation	Je	Ceiling/floor, front/rear (menu selection)
	Output power	
Built-in speaker	Output power	10 W (monaural) × 1
Terminals	HDMI IN	HDMI 19-pin \times 1, HDCP and Deep Color compatible
		Audio signal: linear PCM
		(sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
	COMPUTER (RGB) 1 IN	D-sub HD 15-pin (female) × 1
	R, G, B	R, G, B: 0.7 Vp-p, 75 ohms;
		HD/VD, SYNC: high impedance, TTL (positive/negative automatic)
	Y, Рв (Св), Рг (Сг)	Y: 1.0 Vp-p (including sync signal), 75 ohms
		Рв (Св), Pr (Сr): 0.7 Vp-p, 75 ohms
	S-VIDEO	Y: 1.0 Vp-p; C: 0.286 Vp-p, 75 ohms
		NOTE: D-Sub -S video conversion cable (ET-ADSV) is required.
	COMPUTER (RGB) 2 IN	D-sub HD 15-pin (female) × 1
	R, G, B	R, G, B: 0.7 Vp-p, 75 ohms;
		HD/VD, SYNC: TTL (positive/negative automatic)
	MONITOR OUT	D-sub HD 15-pin (female) × 1
	R, G, B	R, G, B: 0.7 Vp-p, 75 ohms;
		HD/VD, SYNC: TTL (positive/negative polarity compatible)
	VIDEO IN	Pin jack \times 1, 1.0 Vp-p, 75 ohms
	AUDIO IN 1	M3 (L, R) \times 1, 0.5 Vrms
	AUDIO IN 2	Pin jack \times 2 (L, R x 1), 0.5 Vrms
	AUDIO OUT	M3 (L, R) \times 1 (monitor out: 0–2.0 Vrms, variable)
	SERIAL IN	D-sub 9-pin (female) \times 1, for external control (RS-232C compliant)
	LAN	RJ-45 × 1, for network connection, compliant with PJLink™,
		100Base-TX/10Base-T
	USB	USB A (type A) connector × 1,
		for Memory Viewer/Wireless Module (Out put 5V MAX 500mA)
		USB B (type B) connector × 1, for USB Display

PT-TW342

SPEC FILE

LCD Projectors

Power cord length Cabinet materials Dimensions (W \times H \times D)

Weight^{*5} Operation noise^{*3}

Operating temperature

Operating humidity

Remote control unit

Power supply Operation range^{*6}

Dimensions (W \times H \times D) Weight

Supplied accessories

Optional accessories

Ceiling Mount Bracket Ceiling Mount Bracket Projector Mount Bracket D-SUB - S Video conversion cable Replacement Lamp Unit Replacement Filter Unit Wireless Module 3 m (9 ft 10 in) Molded plastic 335 × 134.1*⁴ × 329 mm (13-3/16 × 5-1/4*⁴ × 12-15/16 inches) Approx. 3.9 kg (8.6 lbs) 37 dB (Lamp power: Normal), 33 dB (Lamp power: Eco1) 28 dB (Lamp power: Eco2) 5°C-40°C (41°F-104°F) [at less than 1,400 m (4,593 ft.) ;[High land]:[off] 5°C-35°C (41°F-95°F) [at 1,400 m to 2,700 m (4,593 ft. to 8,858 ft.);[High land]:[on 1] 5°C-30°C (41°F-86°F) [at 2,700 m to 3,000 m (8,858 ft. to 9,843 ft.);[High land]:[on 2] 20%-80% (no condensation)

3 V DC (R03/LR03/AAA type battery \times 2) Approx. 5 m (16 ft 5 in) when operated from directly in front of the signal receptor 44 \times 105 \times 20.5 mm (1-23/32 \times 4-1/8 \times 13/16 inches) Approx. 63 g (2.22 oz) (including batteries)

Power cord (× 1) (× 2 for A model only) Wireless remote control unit (× 1) Batteries for remote control (R03/LR03/AAA type × 2) Computer signal cable[VGA cable] 1.5 m [4 ft 11 in] (× 1) Software CD-ROM (Instruction Manual, Multi Projector Monitoring and Control Software) (× 1)

ET-PKL100H (for high ceilings) ET-PKL100S (for low ceilings) ET-PKL430B ET-ADSV ET-LAL500 ET-RFL300 ET-WML100

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 Usage environment affects the duration of filter.

*3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

*4 With legs at shortest position.

*5 Average value. May differ depending on models.

*6 Operation range differs depending on environments.

As of December 2015



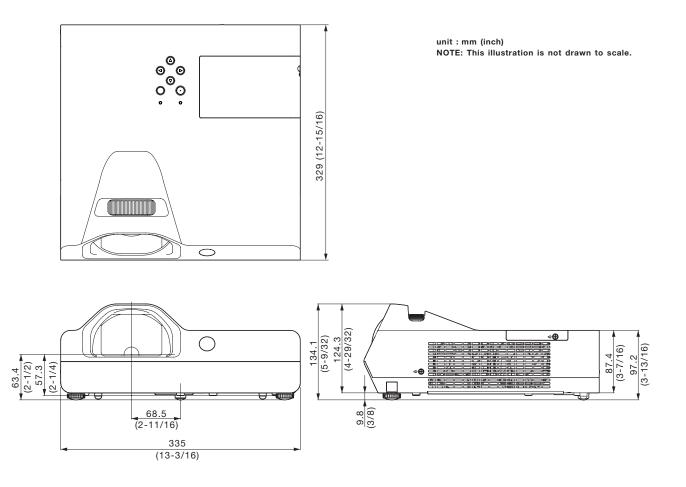


SPEC FILE

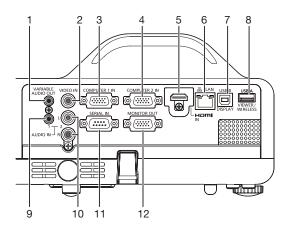
LCD Projectors



Dimensions



Terminals

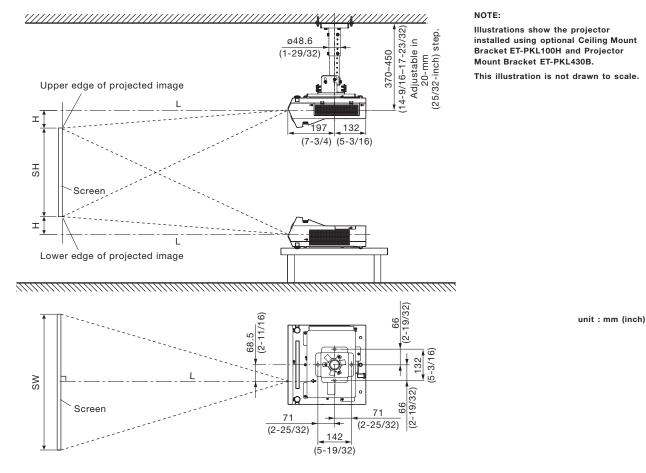


- 1 Audio output
- 2 Video input
- 3 Computer 1 input
- 4 Computer 2 input
- 5 HDMI input
- 6 LAN connector
- 7 USB B connector
- 8 USB A connector
- 9 Audio input 1
- 10 Audio input 2
- 11 Serial input
- 12 Monitor output

PT-**TW3**

unit: meters (feet)

Standard setting-up position



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 Projector Mount Bracket.

Projection distance for 16:10 aspect ratio screen

Projection size [diagonal]	Projection distance [L]	Height from the edge of screen to center of lens [H]		
1.27 m / 50″	0.48 (1.59)	0.11 (0.35)		
1.52 m / 60″	0.59 (1.93)	0.13 (0.42)		
1.78 m / 70″	0.69 (2.27)	0.15 (0.49)		
2.03 m / 80″	0.80 (2.61)	0.17 (0.57)		
2.29 m / 90″	0.90 (2.95)	0.19 (0.64)		
2.54 m / 100"	1.00 (3.29)	0.22 (0.71)		

Projection distance for 16:9 aspect ratio screen

Projection size [diagonal]	Projection distance [L]	Height from the edge of screen to center of lens [H]
1.27 m / 50″	0.50 (1.63)	0.15 (0.48)
1.52 m / 60″	0.60 (1.98)	0.17 (0.57)
1.78 m / 70″	0.71 (2.33)	0.20 (0.67)
2.03 m / 80″	0.82 (2.69)	0.23 (0.76)
2.29 m / 90″	0.92 (3.03)	0.26 (0.86)
2.54 m / 100"	1.03 (3.38)	0.29 (0.95)

Projection distance for 4:3 aspect ratio screen

Projection size [diagonal]	Projection distance [L]	Height from the edge of screen to center of lens [H]		
1.27 m / 50″	0.55 (1.82)	0.11 (0.35)		
1.52 m / 60″	0.67 (2.20)	0.13 (0.42)		
1.78 m / 70″	0.79 (2.59)	0.15 (0.49)		
2.03 m / 80″	0.91 (2.97)	0.17 (0.57)		
2.29 m / 90″	1.02 (3.36)	0.19 (0.64)		
2.54 m / 100″	1.14 (3.74)	0.22 (0.71)		

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 L (m) = (diagonal screen size in inches) \times 0.0104 - 0.0339

Aspect ratio 16:9 L (m) = (diagonal screen size in inches) \times 0.0106 - 0.0339

Aspect ratio 4:3 L (m) = (diagonal screen size in inches) \times 0.0117 - 0.0339

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

Panasonic



unit: meters (feet)

unit: meters (feet)

List of compatible signals

The signals that can be input to this projector are shown in the table below. Horizontal scanning frequencies of 15 kHz to 91 kHz, vertical scanning frequencies of 24 Hz to 85 Hz, and a dot clock of 162 MHz maximum can be input.

NOTE:	The native resolution of this projector is 1,280 × 800 pixels. If the display resolution of the input signal is different from the
	native resolution, image compression or expansion will be used to convert the input signal to a level within the native resolution.

PT-TW34

Display mode	Display resolution	Scanning free H	quency V	Dot clock frequency	Format
	(dots)*1	(kHz)	(Hz)	(MHz)	
NTSC/NTSC4.43/PAL60/PAL-	M 720 × 480i	15.7	59.9	-	S-VIDEO/VIDEO
PAL/PAL-N/SECAM	720 × 576i	15.6	50.0	-	
480i(525i)	720 × 480i	15.7	59.9	13.5	YCBCR/RGB
576i(625i)	720 × 576i	15.6	50.0	13.5	
480i(525i)	720(1440) × 480i*2	15.7	59.9	27.0	HDMI
576i(625i)	720(1440) × 576i*2	15.6	50.0	27.0	-
480p(525p)	720 × 483	31.5	59.9	27.0	HDMI/
576p(625p)	720 × 576	31.3	50.0	27.0	YPBPR(YCBCR)/RGI
720(750)/60p	1280 × 720	45.0	60.0	74.3	
720(750)/50p		37.5	50.0	74.3	-
1080(1125)/60i*3	1920 × 1080i	33.8	60.0	74.3	-
1080(1125)/50i		28.1	50.0	74.3	-
1080(1125)/24p	1920 × 1080	27.0	24.0	74.3	-
1080(1125)/24sF	1920 × 1080i	27.0	48.0	74.3	-
1080(1125)/25p	1920 × 1080	28.1	25.0	74.3	-
1080(1125)/30p		33.8	30.0	74.3	-
1080(1125)/60p		67.5	60.0	148.5	-
1080(1125)/50p		56.3	50.0	148.5	-
VGA	640 × 480	31.5	59.9	25.2	HDMI/RGB
		35.0	66.7	30.2	-
		37.9	72.8	31.5	-
		37.5	75.0	31.5	-
		43.3	85.0	36.0	
SVGA	800 × 600	35.2	56.3	36.0	-
		37.9	60.3	40.0	-
		48.1	72.2	50.0	-
		46.9	75.0	49.5	-
		53.7	85.1	56.3	-
MAC16	832 × 624	49.7	74.6	57.3	
XGA	1024 × 768	48.4	60.0	65.0	
		56.5	70.1	75.0	
		60.0	75.0	78.8	
		68.7	85.0	94.5	
1152 x 864	1152 × 864	67.5	75.0	108.0	
MAC21	1152 × 870	68.7	75.1	100.0	
1280 × 720	1280 × 720	37.1	49.8	60.5	-
		44.8	59.9	74.5	

*1 The "i" appearing after the resolution indicates an interlaced signal.

*2 Only compatible with dot clock frequency of 27 MHz (pixel repetition signal)

PT-**TW342**

Display mode	Display	Scanning fre	Scanning frequency		Format
	resolution	H ((11=)	V	frequency	
	(dots)*1	(kHz)	(Hz)	(MHz)	
1280 × 768	1280 × 768 _	47.8	59.9	79.5	HDMI/RGB
	_	60.3	74.9	102.3	
		68.6	84.8	117.5	
1280 × 800	1280 × 800	41.3	50.0	68.0	
	_	49.7	59.8	83.5	
	_	62.8	74.9	106.5	
		71.6	84.9	122.5	
1280 × 960	1280 × 960	60.0	60.0	108.0	
SXGA	1280 × 1024	64.0	60.0	108.0	
	_	80.0	75.0	135.0	
	_	91.1	85.0	157.5	
1366 × 768	1366 × 768	39.6	49.9	69.0	
	_	47.7	59.8	85.5	
1400 × 1050	1400 × 1050	65.3	60.0	121.8	
	-	82.3	74.9	156.0	
1440 × 900	1440 × 900	55.9	59.9	106.5	
1600 × 900	1600 × 900	55.9	60.0	119.0	
	1600 × 900*2	60.0	60.0	108.0	
UXGA	1600 × 1200	75.0	60.0	162.0	
1680 × 1050	1680 × 1050	65.3	60.0	146.3	
1920 × 1080	1920 × 1080* ²	66.6	59.9	138.5	
WUXGA	1920 × 1200*2	74.0	60.0	154.0	

*1 The "i" appearing after the resolution indicates an interlaced signal.

*2 VESA CVT-RB (Reduced Blanking)-compliant.

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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As of December 2015

