

Panasonic PT-L797PXE

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BriteOptic™ Dual Lamp System XGA Projector



Even Brighter Ideas For Brighter Presentations

Featuring Panasonic's unique BriteOptic™ dual lamp system, the PT-L797 series combines unsurpassed brightness—up to 2,700 ANSI lumens (PT-L797PXE) – with outstanding reliability. Each of these high-quality projectors also provides remarkably crisp and clear image, plus a host of the convenient, user-friendly functions that make Panasonic a bright choice for all your presentations.

At the heart of each compact model of the PT-L797 series is Panasonic's own BriteOptic™ dual lamp system. This proprietary technology delivers the power of two high-intensity UHM™ lamps through a high-precision prism, and it adds an improved light integrator system. By maximizing light efficiency, this system assures superior brightness in all room lighting conditions.

Ultrahigh Brightness

Models of the PT-L797 series gives you the high levels of brightness your important presentations demand. The PT-L797PXE delivers an ultrahigh 2,700 ANSI lumens and the PT-L797VXE offers 2,000. Enjoy images that are bright, crisp and clear in any setting, from rooms to auditoriums to church halls.

High Resolution & Intelligent Image Resizing

The PT-L797 series offers true XGA resolution, allowing display of detailed computer graphics and text. When displaying images of other types, the signals are expanded or compressed through a digital processing system. This assures smooth outlines and outstanding picture definition with all types of images.

DTV-Ready Connection Flexibility

The PT-L797 series is designed for maximum flexibility and compatibility. All models accept input of both YPBPR component signals and conventional RCA composite connectors, so they accommodate 480i, 480p, 720p, 1080i, and all major digital TV formats.

10-bit Digital Gamma Correction

These series incorporate gamma correction circuitry that optimises the non-linear imaging characteristics of the LCD panels. Far superior to conventional analogue gamma processing, this

circuitry delivers naturally vibrant colours with smooth shading and image gradation.

3D Comb Filter

A three-dimensional adaptive comb filter gives the PT-L797 series exceptionally precise Y/C (luminance/chrominance) signal separation. The result is a crisper, clearer image.

Digital Zoom and Picture-in-Picture

You can easily zoom in on a particular part of an image for a clear, close-upview – a big advantage with finely detailed graphics and spreadsheets with small characters. The Picture-in-Picture function lets you display video or S-Video pictures in a sub-window within an image projected from a computer.

One-Touch Auto Setup

This function automatically identifies the signal mode of the input source and adjusts the image accordingly. You get optimal viewing quality, with no additional software, equipment or manual adjustment necessary.

Lens Shift

Shift the projected image vertically even after the projector is set in position. The PT-L797 series has a great adjustment range, and the image remains free of distortion.

Increased Reliability

BriteOptic™ allows you to choose single-lamp modes to give the PT-L797 series longer lamp life of 4,000 hours. With BriteOptic™, optimal brightness is always available with the peace of mind that comes with the reliability of virtual-zero downtime having an extra lamp built in.

BriteOptic™ Dual Lamp System with T-Shaped Optical Configuration

- 1. High-Intensity 160 W UHM™ Lamps:** Features a short arc and minimal deterioration over time.
- 2. Panasonic Original High-Precision Prism**
- 3. Aspherical Collimator Lens**
- 4. Improved Light Integrator:** Ensures uniform brightness across the entire screen.
- 5. Polarization Converter**
- 6. LCD Panels with Micro Lens Array (MLA):** Improves the effective aperture.
- 7. T-Shaped Optical Configuration:** Eliminates the need for additional extra parts, such as a refractor, and increases the efficiency of light utilisation

Projection setting example

L : Projection distance. (Projection size is adjustable.)

H : Height from upper/lower edge of projected image to centre of lens. (Position of a projected image can be easily adjusted by using lens shift function.)

Projection size (W x H)		L		H	
40 inches	(813 x 610 mm)	1.4 – 1.9 m	(4'8½ – 6'4½)	0 – 0.30 m	(0 – 12½)
60 inches	(1,219 x 914 mm)	2.1 – 2.9 m	(6'11½ – 9'8½)	0 – 0.45 m	(0 – 1'6½)
100 inches	(2,032 x 1,524 mm)	3.6 – 4.8 m	(11'1½ – 15'9½)	0 – 0.76 m	(0 – 2'6½)
150 inches	(3,048 x 2,286 mm)	5.5 – 7.3 m	(18'1½ – 23'11½)	0 – 1.14 m	(0 – 3'9½)
200 inches	(4,064 x 3,048 mm)	7.3 – 9.7 m	(24'2½ – 31'10½)	0 – 1.52 m	(0 – 5')
300 inches	(6,096 x 4,572 mm)	11.0 – 14.6 m	(36'1½ – 47'11½)	0 – 2.28 m	(0 – 7'6½)

* inches: diagonally

Features

- Ultra bright 2700 ANSI lumens
- BriteOptic dual lamp system
- True XGA (1024 x 768), Max SXGA (1280 x 1024) resolution
- Intelligent image resizing for VGA/SVGA/SXGA/Mac displays

- 10-bit digital gamma correction and 3D comb filter
- Supports component and composite video input for maximum flexibility
- Stackable for double brightness (up to 5400 ANSI lumens)

Other Valuable Features

- Centre-to-corner uniformity ratio (CCR) of over 85%
- Backlit wireless remote with mouse control
- Lightweight and durable magnesium-alloy cabinet
- Power zoom/ focus lens capable of projecting a 40½ to 300½ diagonal image
- Ceiling/desk, front/rear projection capable
- RS-232C computer interface and contact closure remote terminal
- S-Video compatibility
- Motorized retractable lens for lens protection
- Selectable 7-language on-screen menu (English, German, French, Spanish, Italian, Chinese, Japanese)
- Indicators for lamp errors, thermal warnings, and suggested replacement
- Universal AC power supply (auto-voltage: 100 –120 V/220 –240 V)
- Built-in stereo amplifier and speakers (2W +2W) for true multimedia applications

Compatible graphic modes

VGA400	fH	fV	MXGA	fH	fV
640 x 400	24.8	56.4	1152 x 864	64.0	71.2
	31.5	70.1		67.5	75.0
				76.7	85.0
VGA480	fH	fV			
640 x 480	31.5	59.9	1120 x 750	50.1	60.1
	35.0	66.7	<i>1120 x 750i</i>	<i>32.8</i>	<i>80.0</i>
	37.9	72.8			
	37.5	75.0	SXGA	fH	fV
	43.3	85.0	1280 x 1024	52.4	50.0
SVGA	fH	fV		64.0	60.0
800 x 600	32.1	51.1		72.3	66.3
	35.2	56.3		78.2	72.0
	37.9	60.3		80.0	75.0
	48.1	72.2	<i>1280 x 1024i</i>	<i>46.4</i>	<i>86.9</i>
	46.9	75.0		<i>47.6</i>	<i>89.1</i>
	53.7	85.1	Mac 16"	fH	fV
XGA	fH	fV	832 x 624	49.7	74.6
1024 x 768	48.4	60.0	Mac 21"	fH	fV
	56.5	70.1	1152 x 870	68.7	75.0
	60.0	75.0	480P	fH	fV
	65.5	81.6	720 x 483	31.5	59.9
	68.7	85.0	720P	fH	fV
	80.0	100.0	1280 x 720	45.0	60.0
<i>1024 x 768i</i>	<i>35.5</i>	<i>87.0</i>	HDTV	fH	fV
			<i>960 x 1035i</i>	<i>33.8</i>	<i>60.0</i>

fH : Horizontal frequency (kHz)

fV : Vertical frequency (Hz)

blue: The PT-L797 series only

italic: interlaced signals

NOTE:

The display resolution of the PT-L797 series is 1024 x 768 dots. If the display resolution indicated in the above data does not match this resolution, the input signal will be converted to 1024 x 768 dots.

Specifications

LCD panel:	1.3" (diagonal) with MLA
Display method:	Transparent LCD panels (x 3)
Drive method:	Active matrix
Pixels:	786,432 (1,024x768) x 3

Resolution RGB:	1,024 x 768 pixels	
Resolution Video:	760 TV lines	
Pixel configuration:	Stripe	
Screen aspect ratio:	4:3	
Colours:	Full colour (16,777,216 colours)	
Colour system:	PAL/PAL-M/PAL-N/SECAM/NTSC/M-NTSC	
Lens:	Retractable power zoom / focus lens (1:1 - 1:1.3) F 1.7 - 2.3, f 57.7 - 74.5 mm	
Optical axis shift:	10/10 - 0/10	
Screen size:	1.02 - 76.2 m (40-300 inches) diagonally	
Throw distance:	1.4 - 14.6 m (4'8" - 47'11")	
Scanning frequency:	S-Video/Video:	Horizontal: 15.75/15.63 kHz Vertical: 50/60 Hz
	RGB:	Horizontal: 23 - 94 kHz Vertical: 50-120 Hz
Installation:	Ceiling/desk, front/rear (menu selection)	
Lamp:	DC type 160 W UHM™ lamps (x 2)	
Brightness:	2700 ANSI lumens	
CCR:	85%	
Contrast:	more than 200:1 (all white / all black)	
Terminals:	RGB/YPbPr in:	D-sub HD 15-pin (x2) (RGB1 x 1, RGB2/YPbPr x 1)
	S-Video in:	Mini DIN 4-pin (x1)
	Video in:	RCA jack (x1)
	Audio in:	For video: RCA jack (L,R), For RGB: stereo mini jack (x2)
	RGB out:	D-sub HD 15-pin (x1)
	Audio out:	Stereo mini jack (x1)
	Serial:	D-sub 9-pin (x1) (RS-232C)
	Remote:	D-sub 9-pin (x1)
	Mouse:	Round 13-pin
Built-in speaker:	Size:	4 x 2.85 cm (x2)
	Output power:	4 W (2 W+2 W) (10% THD)
Power supply:	100 - 240 V AC, 50/60 Hz	
Power consumption:	480 W (during standby mode with fan stopped: Max. 10 W)	
Max amps:	5.0 A	
Dimensions (WxHxD):	332 x 134 x 470 mm (excluding lens extension length)	
Weight:	9.2 kg	
Cabinet material:	Magnesium alloy	
Operating temperature:	0 - 40°C (32° - 104°F)	
Operating humidity:	20% - 80% (non condensation)	
On-screen display languages:	English, German, French, Spanish, Italian, Chinese, Japanese	
Power cord length:	2.9 m	
Safety regulation:	EN 60950, EN55022, EN 61000-3-2, EN 61000-3-3, EN 50082-1, CB Certificate, VDE, C-Tick	
Remote Control Unit:	Power Supply:	3 V DC (AA-size battery x 2)
	Operation range:	Approx. 7m when operated from directly in front of the signal receptor
	Weight:	Approx. 102 g (inc. batteries)
	Dimensions:	46 x 34 x 190 mm (WxHxD)
Supplied Accessories:	Remote control unit, Batteries for remote control unit, Power cord, VGA cable, Macintosh adapter, PS/2 mouse cable, Macintosh mouse cable, Serial mouse cable, AV cable, PC audio cable, D-sub	

	HD15 BNC cable	
Optional accessories:	Replacement lamp unit:	ET-LA097X (single lamp) ET-LA097XW (set of 2 lamps)
	Ceiling mount bracket:	ET-PK097 (for high ceilings) ET-PK097S (for low ceilings)
	Dual stacking mount bracket:	ET-DF097
Warranty	24 months / 5000 Hours (whichever is first)	

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