

Sharp, Crisp Large-Screen Projection with High Brightness of 12,000 lm



PT-EX12K

12,000 lm

XGA (1,024 × 768)

High Brightness, High Image Quality

- High brightness of 12,000 lm and 4,000:1 contrast bring sharp, crisp images.
- Pure Color Control device independently controls the light intensity of yellow for excellent color reproduction.
- A full 10-bit image processing system provides smooth tonal expression.

Stable Operation

- A dual-lamp optical system ensures continuous operation if a lamp should fail.
- Inorganic materials in the LCD panels and polarizers*¹ add durability to the optical block and maintain image quality longer.
- An Eco Filter that needs no replacement for up to 12,000 hours.*²

System Integration Flexibility and Expandability

- A vertical 360 degree installation, powered zoom/focus, powered horizontal/vertical-lens shift and wide range of optional lenses enable smooth flexibility for use in various locations.
- The Corner Keystone Correction corrects the trapezoidal image distortion that is caused by projection at an angle.
- The Multi-Screen Support System optimally adjusts for multiple screens: Edge blending, color matching and multi-screen processor.
- Abundant terminals, including HDMI and two RGB input terminals. HD/SD-SDI input terminals are also supported (optional board required).
- LED light-equipped operation panel and terminal panel for easy operation in the dark.
- Web browser control over a wired LAN, Multi Projector Monitoring & Control Software, and PLink™ compatibility.
- Wireless and wired remote control that allows the allocation of up to 64 IDs.
- Top-panel lamp replacement simplifies maintenance for ceiling-mounted projectors.
- The lens-centered symmetrical design contributes to easy installation.
- Mechanical shutter (effect function) - allows various stage effects.
- Direct Power Off allows the power cord to be unplugged right after use.
- Logo Transfer Software*³ lets you upload any startup logo you want.

*1 Excluding some polarizers.

*2 With the lamp power set to Normal. The usage environment affects the duration of the filter.

*3 Still images that can be uploaded are limited to 1,024 x 768 pixel bitmap files. Also, the application reduces the number of colors to 191.

Specifications (Tentative)

Model		PT-EX12K		
Power supply		100-240 V AC, 50/60 Hz		
Power consumption		940 W (17 W with standby mode)		
LCD panel	Panel size	45.6 mm (1.8 inches) diagonal (4:3 aspect ratio)		
	Display method	Transparent LCD panel (x 3, R/G/B)		
	Pixels	786,432 (1,024 × 768) × 3, total of 2,359,296 pixels		
	Pixel configuration	Stripe		
Lens		Optional		
Lamp		380 W × 2, lamp replacement cycle (lamp power: Normal/Eco1, Eco2): 2,000 hours/3,000 hours*1		
Screen size (diagonal)		1.02–15.24 m (40–600 inch) (Projection distance varies depending on the lens.)		
Brightness*2		12,000 lm (2-lamps, lamp power: Auto/Normal, Optional lens: ET-ELS03)		
Center-to-corner uniformity*2		90 %		
Contrast*2		4,000:1 (full on/full off, 2-lamps, lamp power: Auto)		
Resolution		1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.)		
Scanning frequency	HDMI/DVI-D	Horizontal: 26–80 kHz, vertical: 23–85 Hz, dot clock: 162 MHz or lower		
	RGB (analog)	fh: 15–120 kHz, fv: 48–120 Hz, dot clock: 230 MHz or lower (Signals exceeding the dot clock rate of 165 MHz are downsampled.)		
	YPbPr (YCbCr)	fh: 15.75 kHz, fv: 60 Hz [480i (525i)]	fh: 15.63 kHz, fv: 50 Hz [576i (625i)]	
	Video/S-Video	fh: 15.75 kHz, fv: 60 Hz [480p (525p)]	fh: 15.63 kHz, fv: 50 Hz [576p (625p)]	
Optical axis shift	Vertical	±39% (with the ET-ELW06/ET-ELW02/ET-ELW04/ET-ELS03/ET-ELM01/ET-ELT02/ET-ELT03) from center of screen (powered) ±50% (with the ET-ELS02) from center of screen (powered)		
	Horizontal	±10% (with the ET-ELW02/ET-ELW04/ET-ELS02/ET-ELS03/ET-ELM01/ET-ELT02/ET-ELT03) from center of screen (powered)*3		
Installation		Ceiling/floor, front/rear		
Terminals	INPUT1	DVI-D IN	DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only), 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1035/60i, 1080/24p, 1080/24sF, 1080/25p, 1080/25sF, 1080/30p, 1080/30sF, 1080/60p, 1080/50p, VGA (640 x 480)–WUXGA (1,920 x 1,200)*4, compatible with non-interlaced signals only, dot clock: 25–162 MHz	
		HDMI IN	HDMI 19-pin x 1 (compatible with HDCP, compatible with Deep Color), 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1035/60i, 1080/24p, 1080/24sF, 1080/25p, 1080/25sF, 1080/30p, 1080/30sF, 1080/60p, 1080/50p, VGA (640 x 480)–WUXGA (1,920 x 1,200)*4, compatible with non-interlaced signals only, dot clock: 25–162 MHz	
	INPUT2	ANALOG IN	D-Sub HD 15-pin (female) × 1 (RGB × 1)	
		RGB 5BNC IN /VIDEO IN	BNC × 5 (RGB/YPbPr/YCbCr × 1), shared with VIDEO IN (BNC × 1) (composite video)	
		S-VIDEO IN	Mini DIN 4-pin × 1 (S-Video)	
	INPUT3	Optional interface board slot for HD/SD-SDI input		
	INPUT4	Optional interface board slot for HD/SD-SDI input		
	SERIAL IN	D-sub 9-pin (female) × 1 for external control		
	SERIAL OUT	D-sub 9-pin (male) × 1 for link control		
	REMOTE IN	M3 Jack x 1 (for wired remote control)		
LAN	RJ-45 × 1 (for network connection, 10Base-T/100Base-TX, compliant with PLink™ (class1))			
USB	USB type-B (USB connector) x 1*5			
Cabinet materials		Molded plastic		
Dimensions (W × H × D)		538.5 × 268 × 757 mm (21.2" × 10.6" × 29.8") (with legs at shortest position, optional lens not included)		
Weight		Approximately 28 kg (61.7 lbs) (optional lens not included)		
Operating environment		Operating temperature: 0°C–40°C [32°F–104°F] (less than 1,400 m [4,593 ft] above sea level), 0°C–30°C [32°F–86°F] (between 1,400 m and 2,700 m [4,593 ft to 8,858 ft] above sea level)		
Supplied accessories		Power cord x 1, power cord holder/power cord cover x 1set, wireless/wired remote control unit, batteries (AAA/R03/LR03 type × 2), VGA cable x 1, software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software, Real Color Manager Pro.), lens attachment × 1set, lens lock lever fixing bracket x 1set, lightshielding plate x 3set, spacer x 1set, cable tie x 3		

*1 The values given for the recommended lamp replacement cycles are maximum.
 *2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
 *3 The ET-ELW06 is equipped with only vertical optical axis shift.
 *4 Compliant with VESA CVT-RB.
 *5 This port is for use by service personnel only. The USB interface may not operate with all USB-compatible equipment.

Optional accessories

Zoom lens (throw ratios*6)	Fixed-focus lens	Replacement filter unit	Ceiling mount bracket*7
ET-ELW06 (1.2 – 1.5:1)	ET-ELW03 (0.8:1)	ET-RFE12	ET-PKE16H (for high ceilings)
ET-ELW02 (1.4 – 1.8:1)			ET-PKE16S (for low ceilings)
ET-ELW04 (1.5 – 2.0:1)	Replacement lamp unit		
ET-ELS02 (2.0 – 2.6:1)	ET-LAE12		Bracket assembly
ET-ELS03 (2.6 – 3.5:1)			ET-PKE12B
ET-ELM01 (3.5 – 4.5:1)	Interface Board for HD/SD-SDI input		
ET-ELT02 (4.4 – 6.2:1)	ET-MD16SD1		
ET-ELT03 (6.3 – 9.0:1)			

*6 Aspect ratio 4:3
 *7 This product is used together with an optional bracket assembly (sold separately).

NOTES ON USE

- This product must not be used in residential areas.
- This product may cause interference if used in residential areas.
Such use must be avoided unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.



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All information included here is valid as of January 2012.