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Clear, Large Screen Images with High Brightness of 16,000 lm for a Variety of Installation Environments

PT-**EX16K**
16,000 lm
XGA (1,024 × 768)
Available from September 2011

High Brightness, High Image Quality

- High brightness of 16,000 lm and 2,500:1 contrast bring sharp, crisp images.
- A unique optical engine design with color control device achieves excellent color reproduction.
- A full 10-bit image processing system provides smooth tonal expression.

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 eliminates the trapezoidal image distortion that is caused by projection at an angle.
- The Multi-Screen Support System optimally adjusts 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.

Stable Operation

- A 4-lamp optical system ensures continuous operation if a lamp should fail.
- Inorganic materials in the LCD panels and polarizers add durability to the optical block and maintain image quality longer.
- The air filter cuts the entry of dust, helping maintain high brightness and long-life operation.
- The Smoke Cut Filter (optional) prevents the entry of fine smoke particles to produce the best images in locations such as concert venues.

- Web browser control over a wired LAN, Multi Projector Monitoring & Control Software, and PJLink™ compatibility.
- Wireless and wired remote control that allows the allocation of up to 64 IDs.
- Carry handles attached to the base-plate for easy transportation of the projector.
- Top-panel lamp replacement simplifies maintenance for ceiling-mounted projectors.
- Mechanical shutter (effect function) - allows various stage effects.
- Direct Power Off allows the power cord to be unplugged right after use.
- Logo Transfer Software* lets you upload any startup logo you want.

* 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-**EX16K**
Power supply		200-240 V AC, 50/60Hz
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) x 3, total of 2,359,296 pixels
	Pixel configuration	Stripe
Lens		Optional
Lamp		380 W × 4, lamp replacement cycle (Normal/Eco): 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]		16,000 lm
Center-to-corner uniformity[*2]		90%
Contrast[*2]		2,500:1 (full on/full off)
Resolution		1,024 × 768 pixels (Input signals that exceed this resolution will be converted to 1,024 × 768 pixels.)
Scanning frequency	RGB (analog)	f_H: 15–120 kHz, f_V: 48–120 Hz, dot clock: 230 MHz or lower (Signals exceeding the dot clock rate of 165 MHz are downsampled.)
	YPBPR (YCBCR)	f_H: 15.75 kHz, f_V: 60 Hz [480i (525i)] f_H: 37.50 kHz, f_V: 50 Hz [720 (750)/50p] f_H: 27.00 kHz, f_V: 24 Hz [1080/24p] f_H: 31.50 kHz, f_V: 60 Hz [480p (525p)] f_H: 33.75 kHz, f_V: 60 Hz [1035/60i] f_H: 27.00 kHz, f_V: 48 Hz [1080/24sF] f_H: 15.63 kHz, f_V: 50 Hz [576i (625i)] f_H: 33.75 kHz, f_V: 60 Hz [1080 (1125)/60i] f_H: 33.75 kHz, f_V: 30 Hz [1080/30p] f_H: 31.25 kHz, f_V: 50 Hz [576p (625p)] f_H: 28.13 kHz, f_V: 50 Hz [1080 (1125)/50i] f_H: 67.50 kHz, f_V: 60 Hz [1080/60p] f_H: 45.00 kHz, f_V: 60 Hz [720 (750)/60p] f_H: 28.13 kHz, f_V: 25 Hz [1080/25p] f_H: 56.25 kHz, f_V: 50 Hz [1080/50p]
	Video/S-Video	f_H: 15.75 kHz, f_V: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60], f_H: 15.63 kHz, f_V: 50 Hz [PAL/PAL-N/SECAM]
	DVI-D	Horizontal: 26–80 kHz, vertical: 23–85 Hz, dot clock: 162 MHz or lower
	HDMI	Horizontal: 26–80 kHz, vertical: 23–85 Hz, dot clock: 162 MHz or lower
Optical axis shift	Vertical	±38% (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, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 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 Deep Color, 480p, 576p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 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
	ANALOG IN	D-Sub HD 15-pin (female) × 1 (RGB × 1)
	INPUT2 RGB 5BNC 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 (male) × 1 for external control
	SERIAL OUT	D-sub 9-pin (male) × 1 for link control
	LAN	RJ-45 × 1 (for network connection, 10Base-T/100Base-TX, compliant with PJLink™)
	REMOTE IN	M3 Jack x 1 (for wired remote control)
	USB	USB type-B (USB connector) x 1[*5]
Cabinet materials		Molded plastic
Dimensions (W × H × D)		650 × 349 × 815 mm (25.6" x 13.7" x 32.1")
Weight		Approximately 46.5 kg (103 lbs)
Operating environment		Operating temperature: 5°C–40°C (41°F–104°F)
Supplied accessories		Power cord x 1, fixing bracket for power cord x 1, wireless/wired remote control unit, batteries (R03/AAA type × 2), VGA cable x 1, software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software, Real Color Manager Pro.), lens attachment × 1, lens safety clamp × 2, light block plate × 3, lens spacer × 1, rock band 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-RFE16**	**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	Smoke cut filter unit	
ET-ELS02 (2.0 – 2.6:1)	**ET-LAE16**	**ET-SFE16**	Bracket assembly
ET-ELS03 (2.6 – 3.5:1)			**ET-PKE16B**
ET-ELM01 (3.5 – 4.5:1)	Interface Board for HD/SD-SDI input	Replacement smoke cut filter	
ET-ELT02 (4.4 – 6.2:1)	**ET-MD16SD1**	for the ET-SFE16	
ET-ELT03 (6.3 – 9.0:1)		**ET-SRE16**	

*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 June 2011.

PT-EX16KPRE1 Printed in Japan.