Panasonic

SHARP, BRIGHT, LARGE-SCREEN IMAGES

SOLID RELIABILITY AND SYSTEM EXPANDABILITY

LCD Projectors
PT-**EX16K**
PT-**EX12K**

OUTSTANDING PERFORMANCE FOR LARGE-SPACE VIEWING

A 2-model lineup with the High-Brightness, 16,000-lm PT-EX16K and 13,000-lm PT-EX12K.

BALANCING THE FACTORS REQUIRED TO FILL LARGE SPACES WITH BREATHTAKING IMAGES.

The PT-EX16K and PT-EX12K render crisp, clear, large-screen images with the remarkable brightness of 16,000 lm and 13,000 lm, respectively. Pure Colour Control, which independently controls yellow brightness to improve colour reproduction, attains this superb brightness with optimal colouring. And the Multi-Lamp Optical System maintains high reliability. System expansion functions include horizontal/vertical lens shift and a Multi-Screen Support System. These and other features enable flexible installation for a wide variety of applications.
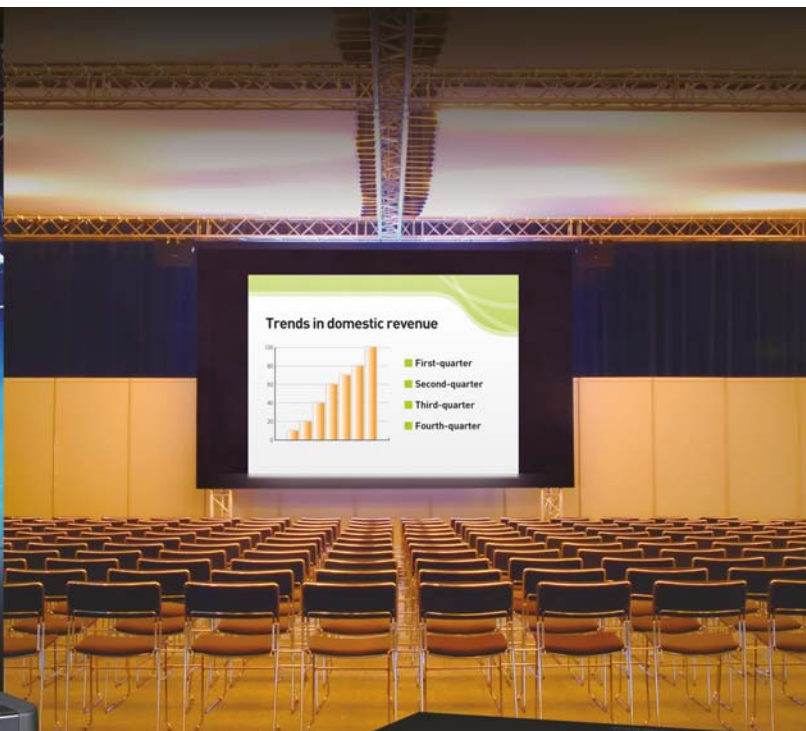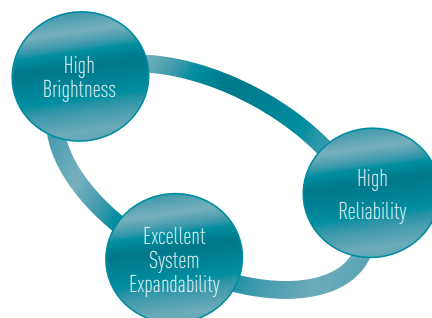
PT-EX16KE | 16,000 lm | XGA |

PT-EX12KE | 13,000 lm | XGA |

High Brightness

High Reliability

Excellent System Expandability

BRIGHT, VIBRANT LARGE-SCREEN IMAGES

EX-16K

A Full 16,000 lm of Brightness and 2,500:1 Contrast
The 4-Lamp Optical System uses high-output, 380 W UHM lamps to deliver remarkable 16,000-lm brightness. And the contrast ratio is a high 2,500:1, to ensure bright, crisp, large-screen projection.

EX-12K

High 13,000-lm Brightness and 4,000:1 Contrast
The 2-Lamp Optical System uses high-output, 380 W UHM lamps to produce high brightness of 13,000 lm. Contrast is also high at 4,000:1. Images are sharp and crisp.

EX-16K　**EX-12K**

Full 10-Bit Image Processing System
The use of a full 10-bit image processing system provides smooth tonal expression. For example, skin tones appear natural and true to life.
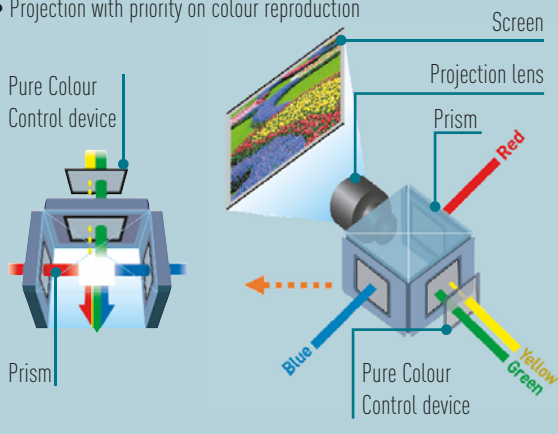
EX-16K　**EX-12K**

Excellent Colours with Pure Colour Control
It is inherently difficult for LCD projectors to attain both high brightness and superb colour reproduction. For this reason, in addition to the three conventional LCD panels that control the light intensity for the red, blue and green primary colours, the PT-EX16K/EX12K also features a Pure Colour Control function that independently controls the light intensity of yellow colouring. This provides rich overall colour expression while maintaining brightness.

Basic Concept of the Pure Colour Control

Independent control of yellow

- Projection with priority on brightness
- Projection with priority on colour reproduction

Screen
Projection lens
Prism
Red
Pure Colour Control device
Prism
Blue
Green
Yellow
Pure Colour Control device

*1 The values above are maximum values when they are used in cycles of being turned on for 2 hours and off for 0.25 hours. When the lamps are turned on and off more frequently, the lamp replacement cycle is shortened. The usage environment affects the lamp replacement cycle.

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

*3 Electrostatic filters.

*4 When washing with water, please follow the procedures listed in the operating instructions. Also, we recommend replacing the filter with a new one after it has been washed and reused twice. If the filter is not sufficiently clean after washing, replace it with a new one.

HIGH RELIABILITY FOR LONG-TIME USE

EX-16K　**EX-12K** The Multi-Lamp Optical System Enables Stable, Extended Operation
Even if one lamp goes out during use, the other lamps continue, so projection is not interrupted. Lamp Relay mode also allows long-time, continuous operation.

Brightness and Lamp Replacement Cycle Guideline.

Lamp	Brightness (lm)	Maximum lamp replacement cycle (hours)[1]
Four lamps (Normal)	16,000	2,000
Four lamps (Eco1 or Eco2)	12,320	3,000
Two lamps (Normal)	8,000	4,000
Two lamps (Eco1 or Eco2)	6,160	6,000

PT-EX16K

Lamp	Brightness (lm)	Maximum lamp replacement cycle (hours)[1]
Two lamps (Normal)	13,000	2,000
Two lamps (Eco1 or Eco2)	10,010	3,000
One lamp (Normal)	6,500	4,000
One lamp (Eco1 or Eco2)	5,005	6,000

PT-EX12K

EX-16K　**EX-12K** Highly Durable Optical Engine Ensures Excellent Long-Time Image Quality
The LCD panels and polarizers inside the LCD projector's optical block tend to degrade over time. Their degradation adversely affects image quality. Inorganic materials are used for the LCD panels, and for the polarizers that are prone to degradation, to resist time-related changes in the optical block, therefore achieving a replacement cycle of up to 10,000 hours.

EX-16K

Adverse Dust Effects Prevented by a Long-Lasting Air Filter
The use of a large pleated air filter has made it possible to achieve a replacement cycle of up to 5,000 hours[2]. This greatly reduces maintenance hassles. The filter is also replaced from the front, so there is no need to detach the projector from its mounting bracket in ceiling-mounted applications.

EX-12K

Long-Lasting Eco Filter with User-Friendly Maintenance
The PT-EX12K features the Eco Filter, which efficiently captures dust and requires no replacement for up to 12,000 hours[2]. It consists of Micro Cut Filters[3] that use an ion effect to collect extremely small dust particles. These large-surface, pleated filters have a high dust collecting performance. In addition to its long replacement cycle, the Eco Filter can be washed with water[4] for repeated use, further increasing its ecological performance. The Eco Filter can also be removed through the top panel of the projector, enabling filter replacement on ceiling-mounted projectors without having to detach the projector from its mounting bracket.

EX-16K Optional Smoke Cut Filter Provides Protection from Fine Smoke Particles
The projector can be equipped with an optional Smoke Cut Filter ET-SFE16 to prevent the entry of not only dust but also fine smoke particles, such as those used for special effects at events and stage performances.
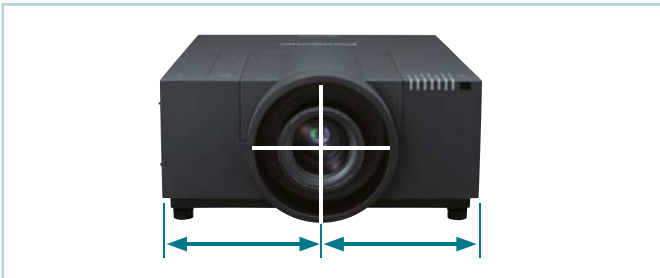
EX-16K **EX-12K**

The Horizontal/Vertical Lens Shift Function and a Variety of Lenses

Both zooming and focusing can be done by remote control. The wide adjustment range of the powered horizontal/vertical lens shift function assures convenience and versatility during installation. You can also choose from a wide variety of lenses, from short or long focus zoom lenses to a fixed focus lens for rear projection. This makes it possible to install the projector in a variety of locations.

EX-12K

Lens-centered Design

A lens-centered, symmetrical design provides ease of installation, eliminating the need for any special considerations when planning the installation site.

EX-16K **EX-12K**

Flexible Installation

The projector can be rotated 360° vertically for flexible installation. This allows projection from directly above or below, for exciting visual possibilities in art galleries, theatres and showrooms.

360°

EX-16K **EX-12K**

Corner Keystone Correction Enables Angled Projection

All you need to do is designate four points as the corners of the projected image, and this function automatically carries out horizontal and vertical keystone correction.

EX-16K **EX-12K**

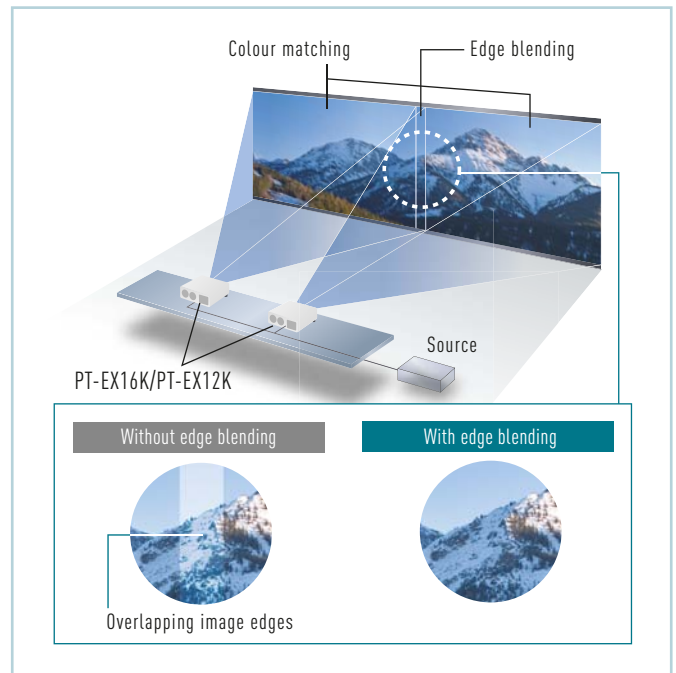## Multi-Screen Support System Seamlessly Connects Multiple Screens

The Multi-Screen Support System optimally adjusts multiple screens: Edge blending, colour matching.

Edge Blending
The edges of adjacent screens can be blended and their luminance controlled.

Colour Matching
This function corrects for slight variations in the colour reproduction range of individual projectors.

Colour matching — Edge blending

PT-EX16K/PT-EX12K

Source

Without edge blending | With edge blending

Overlapping image edges

EX-16K **EX-12K**

Versatile Interfaces and Illuminated Terminals and Control Panel

The wide-ranging terminals include 2 sets of RGB inputs[5], an HDMI input, and a DVI-D input. Mounting the optional Interface Board ET-MD16SD1 also accommodates HD/SD-SDI signal input. The terminal connection area is LED illuminated, and a backlight is provided for the control panel buttons, ensuring smooth and easy operation in the dark.

* Featured image is PT-EX12K. The serial input terminal of the PT-EX16K is a male type. The printings on the side of PT-EX16K differ slightly from the picture shown.

EX-16K **EX-12K**

Mechanical Shutter for a Total Screen Blackout

The Mechanical Shutter lets you mechanically block the light to completely blackout the screen, and prevents light leakage from the lens. When closing the shutter, the projection image gradually fades out, then gradually fades in when opening, which brings more attractive stage effects.

EX-16K **EX-12K**

Easy Remote Control and Observation

A web browser on a computer connected through a wired LAN system lets you remotely operate projectors and check their status. An e-mail messaging function can also notify you when a lamp needs replacement, and indicate the overall projector status. In addition, Multi Projector Monitoring and Control Software is available for monitoring and controlling multiple Panasonic projectors from a single PC. The wired LAN terminal is compatible with PJLink™ (class1), an open protocol that is used by many manufacturers, to enable integrated control of systems that contain different brands of projectors.

PJLink™

Lecture room

Classroom

Auditorium

Seminar room

EX-16K

Robust Carrying Handles

An iron base plate is mounted to the bottom of the main unit. Also, robust carrying handles attached to the base plate are designed for easy carrying of the projector.

EX-16K **EX-12K**

Top-Panel Lamp Replacement Simplifies Maintenance

The lamp can be reached through the top panel for easy replacement. This eliminates the need to detach the projector from its mounting bracket in ceiling-mounted applications and greatly simplifies maintenance.

* Featured Image: PT-EX12K.

EX-16K **EX-12K**

Direct Power Off

The cooling fan continues to operate even when the main power switch is turned off after projection is finished. This also allows the power to be turned off by directly switching off the room's main breaker for systems, such as ceiling mounted systems, where the main power switch cannot be reached.

EX-16K **EX-12K**

A Remote Control ID

Projector identification system for remote control allocation of up to 64 projectors allows simultaneous or individual control when multiple projectors are used.

* Featured Image: PT-EX12K.

EX-16K **EX-12K**

Effective Theft Prevention with the Startup Logo*6

You can change the default Panasonic logo to any logo you want, such as your company's logo for example.

Ecology-conscious Design

- Panasonic works from every angle to minimise environmental impact in the product design, production and delivery processes, and in the performance of the product during its life cycle. The PT-EX16K/EX12K projectors reflect the following ecological considerations.
- No halogenated flame retardants are used in the cabinet.
- Lead-free glass is used for the lens.
- Lamp power switching further reduces power consumption.
- RoHS compliant

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*5 One set supports YP_BP_R (YC_BC_R) signals.
*6 The included Logo Transfer Software is required to upload a new logo.

OPTIONAL ACCESSORIES

ET-PKE16H
Ceiling mount bracket for high ceilings*

ET-PKE16S
Ceiling mount bracket for low ceilings*

ET-MD16SD1
Interface board for HD/SD-SDI input

* This product is used together with an optional bracket assembly (sold separately).

For the PT-EX12K only

ET-PKE12B
Bracket assembly

ET-LAE12
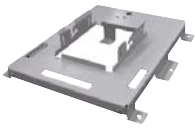Replacement lamp unit

ET-RFE12
Replacement filter unit

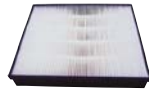## For the PT-EX16K only

ET-PKE16B
Bracket assembly

ET-SFE16
Smoke cut filter unit

ET-SRE16
Replacement smoke cut filter for the ET-SFE16

ET-LAE16
Replacement lamp unit

ET-RFE16
Replacement filter unit

Zoom lens

ET-ELW06
(1.2 – 1.5:1)

ET-ELW02
(1.4 – 1.8:1)

ET-ELW04
(1.5 – 2.0:1)

ET-ELS02
(2.0 – 2.6:1)

Fixed-focus lens

ET-ELW03
(0.8:1)

ET-ELS03
(2.6 – 3.5:1)

ET-ELM01
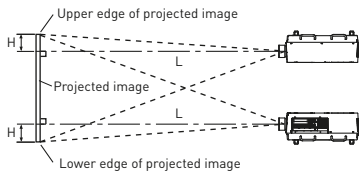(3.5 – 4.5:1)

ET-ELT02
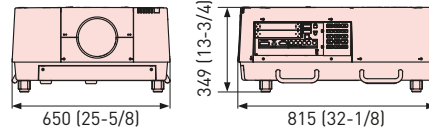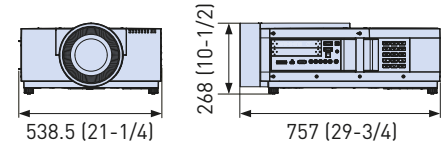(4.4 – 6.2:1)

ET-ELT03
(6.3 – 9.0:1)

PROJECTION DISTANCE

Upper edge of projected image
Projected image
Lower edge of projected image

DIMENSIONS UNIT: MM (INCH)

PT-EX16K

650 (25-5/8)　349 (13-3/4)　815 (32-1/8)

PT-EX12K

538.5 (21-1/4)　268 (10-1/2)　757 (29-3/4)

UNIT: MM (INCH)

Diagonal image size / Throw ratio (4.3 aspect ratio)	ET-ELW06 1.2–1.5:1		ET-ELW02 1.4–1.8:1		ET-ELW04 1.5–2.0:1		ET-ELS02 2.0–2.6:1		ET-ELS03 2.6–3.5:1		ET-ELM01 3.5–4.5:1		ET-ELT02 4.4–6.2:1		ET-ELT03 6.3–9.0:1		ET-ELW03 0.8:1	Height: ET-ELW06/ELW02/ELW04/ELS03/ELM01/ELT02/ELT03	ET-ELS02	ET-ELW03
	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	fixed	fixed		fixed
1.02 (40")	0.91 (3.0)	1.17 (3.8)	1.07 (3.5)	1.42 (4.7)	1.15 (3.8)	1.56 (5.1)	1.48 (4.9)	1.99 (6.5)	-	-	2.87 (9.4)	3.69 (12.1)	3.75 (12.3)	5.11 (16.8)	5.27 (17.3)	7.58 (24.9)	0.60 (2.0)	0.07-0.55 (0.2-1.8)	0-0.61 (0-2.0)	0.31 (1.0)
1.27 (50")	1.16 (3.8)	1.49 (4.9)	1.36 (4.5)	1.80 (5.9)	1.47 (4.8)	1.98 (6.5)	1.90 (6.2)	2.53 (8.3)	-	-	3.56 (11.7)	4.58 (15.0)	4.63 (15.2)	6.35 (20.8)	6.50 (21.3)	9.38 (30.8)	0.77 (2.5)	0.09-0.68 (0.3-2.2)	0-0.77 (0-2.5)	0.39 (1.3)
1.52 (60")	1.40 (4.6)	1.81 (5.9)	1.65 (5.4)	2.18 (7.2)	1.79 (5.9)	2.40 (7.9)	2.32 (7.6)	3.08 (10.1)	-	-	4.26 (14.0)	5.48 (18.0)	5.51 (18.1)	7.58 (24.9)	7.73 (25.4)	11.19 (36.7)	0.94 (3.1)	0.11-0.82 (0.4-2.7)	0-0.92 (0-3.0)	0.46 (1.5)
1.78 (70")	1.65 (5.4)	2.12 (7.0)	1.94 (6.4)	2.56 (8.4)	2.12 (7.0)	2.82 (9.3)	2.74 (9.0)	3.63 (11.9)	-	-	4.95 (16.2)	6.38 (20.9)	6.39 (21.0)	8.82 (28.9)	8.96 (29.4)	13.00 (42.7)	1.10 (3.6)	0.12-0.95 (0.4-3.1)	0-1.07 (0-3.5)	0.54 (1.8)
2.03 (80")	1.89 (6.2)	2.44 (8.0)	2.23 (7.3)	2.93 (9.6)	2.44 (8.0)	3.24 (10.6)	3.16 (10.4)	4.18 (13.7)	-	-	5.65 (18.5)	7.28 (23.9)	7.27 (23.9)	10.05 (33.0)	10.19 (33.4)	14.80 (48.6)	1.27 (4.2)	0.14-1.09 (0.5-3.6)	0-1.22 (0-4.0)	0.61 (2.0)
2.29 (90")	2.13 (7.0)	2.76 (9.1)	2.52 (8.3)	3.31 (10.9)	2.76 (9.1)	3.66 (12.0)	3.58 (11.7)	4.72 (15.5)	-	-	6.34 (20.8)	8.18 (26.8)	8.14 (26.7)	11.28 (37.0)	11.42 (37.5)	16.61 (54.5)	1.44 (4.7)	0.16-1.23 (0.5-4.0)	0-1.38 (0-4.5)	0.69 (2.3)
2.54 (100")	2.38 (7.8)	3.08 (10.1)	2.81 (9.2)	3.69 (12.1)	3.08 (10.1)	4.08 (13.4)	4.00 (13.1)	5.27 (17.3)	5.22 (17.1)	7.10 (23.3)	7.04 (23.1)	9.08 (29.8)	9.02 (29.6)	12.52 (41.1)	12.65 (41.5)	18.42 (60.4)	1.60 (5.2)	0.17-1.36 (0.6-4.5)	0-1.53 (0-5.0)	0.77 (2.5)
3.05 (120")	2.87 (9.4)	3.71 (12.2)	3.39 (11.1)	4.44 (14.6)	3.72 (12.2)	4.92 (16.1)	4.85 (15.9)	6.36 (20.9)	6.30 (20.7)	8.56 (28.1)	8.42 (27.6)	10.88 (35.7)	10.78 (35.4)	14.99 (49.2)	15.11 (49.6)	22.03 (72.3)	1.94 (6.4)	0.21-1.63 (0.7-5.3)	0-1.83 (0-6.0)	0.92 (3.0)
3.81 (150")	3.60 (11.8)	4.66 (15.3)	4.26 (14.0)	5.57 (18.3)	4.69 (15.4)	6.18 (20.3)	6.11 (20.0)	8.00 (26.2)	7.92 (26.0)	10.73 (35.2)	10.51 (34.5)	13.57 (44.5)	13.42 (44.0)	18.69 (61.3)	18.80 (61.7)	27.45 (90.1)	2.44 (8.0)	0.26-2.04 (0.9-6.7)	0-2.29 (0-7.5)	1.15 (3.8)
5.08 (200")	4.82 (15.8)	6.25 (20.5)	5.71 (18.7)	7.46 (24.5)	6.29 (20.6)	8.28 (27.2)	8.21 (26.9)	10.74 (35.2)	10.61 (34.8)	14.36 (47.1)	13.98 (45.9)	18.07 (59.3)	17.82 (58.5)	24.86 (81.6)	24.94 (81.8)	36.49 (119.7)	3.27 (10.7)	0.34-2.72 (1.1-8.9)	0-3.05 (0-10.0)	1.53 (5.0)
6.35 (250")	6.04 (19.8)	7.83 (25.7)	7.16 (23.5)	9.35 (30.7)	7.90 (25.9)	10.38 (34.1)	10.32 (33.9)	13.47 (44.2)	13.31 (43.7)	18.00 (59.1)	17.45 (57.3)	22.56 (74.0)	22.22 (72.9)	31.03 (101.8)	31.09 (102.0)	45.52 (149.3)	4.10 (13.5)	0.42-3.40 (1.4-11.2)	0-3.81 (0-12.5)	1.91 (6.3)
7.62 (300")	7.26 (23.8)	9.42 (30.9)	8.61 (28.2)	11.23 (36.8)	9.51 (31.2)	12.48 (40.9)	12.42 (40.7)	16.21 (53.2)	16.00 (52.5)	21.63 (71.0)	20.92 (68.6)	27.05 (88.7)	26.62 (87.3)	37.20 (122.0)	37.24 (122.2)	54.55 (179.0)	4.94 (16.2)	0.51-4.07 (1.7-13.4)	0-4.58 (0-15.0)	2.29 (7.5)
10.16 (400")	9.69 (31.8)	12.59 (41.3)	11.51 (37.8)	15.00 (49.2)	12.72 (41.7)	16.68 (54.7)	16.63 (54.6)	21.68 (71.1)	21.39 (70.2)	28.89 (94.8)	27.87 (91.4)	36.04 (118.2)	35.42 (116.2)	49.54 (162.5)	49.53 (162.5)	72.62 (238.3)	6.60 (21.7)	0.68-5.43 (2.2-17.8)	0-6.10 (0-20.0)	3.05 (10.0)
12.70 (500")	12.13 (39.8)	15.76 (51.7)	14.41 (47.3)	18.78 (61.6)	15.94 (52.3)	20.88 (68.5)	20.84 (68.4)	27.15 (89.1)	26.79 (87.9)	36.15 (118.6)	34.8 (114.2)	45.03 (147.7)	44.22 (145.1)	61.88 (203.0)	61.83 (202.9)	90.69 (297.5)	8.27 (27.1)	0.84-6.79 (2.8-22.3)	0-7.62 (0-25.0)	3.81 (12.5)
15.24 (600")	14.57 (47.8)	18.93 (62.1)	17.30 (56.8)	22.55 (74.0)	19.15 (62.8)	25.07 (82.3)	25.05 (82.2)	32.61 (107.0)	32.18 (105.6)	43.41 (142.4)	41.76 (137.0)	54.01 (177.2)	53.02 (174.0)	74.22 (243.5)	74.12 (243.2)	108.76 (356.8)	9.94 (32.6)	1.01-8.14 (3.3-26.7)	0-9.15 (0-30.0)	4.57 (15.0)

SPECIFICATIONS

MODEL			PT-EX16K	PT-EX12K
Power supply			200–240 V AC, 50/60 Hz	100–240 V AC, 50/60 Hz
Power consumption			1,850 W (18 W with standby mode)	940 W (17 W with standby mode)
LCD panel	Panel size		46 mm (1.8 inches) diagonal (4:3 aspect ratio)	
	Display method		Transparent LCD panel (x 3, R/G/B)	
	Pixels		786,432 (1,024 x 768) x 3, total of 2,359,296 pixels	
	Pixel configuration		Stripe	
Pure colour control device			1	
Lens			Optional	
Lamp			380 W x 4, lamp replacement cycle (lamp power: Normal/Eco1, Eco2): 2,000 hours/3,000 hours*1	380 W x 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 inches) (2.54–15.24 m [100–600 inches] with the ET-ELS03), 4:3 aspect ratio	
Brightness*2			16,000 lm (4-lamps, lamp power: Auto/Normal, Optional lens: ET-ELS03)	13,000 lm (2-lamps, lamp power: Auto/Normal, Optional lens: ET-ELS03)
Centre-to-corner uniformity*3			90 %	
Contrast*2			2,500:1 (full on/full off, 4-lamps, lamp power: Auto)	4,000:1 (full on/full off, 2-lamps, lamp power: Auto)
Resolution			1,024 x 768 pixels (Input signals that exceed this resolution will be converted to 1,024 x 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: 31.25 kHz, fV: 50 Hz [576p (625p)] fH: 33.75 kHz, fV: 60 Hz [1035/60i] fH: 28.13 kHz, fV: 25 Hz [1080/25p] fH: 27.00 kHz, fV: 48 Hz [1080/24sF] fH: 67.50 kHz, fV: 60 Hz [1080/60p]	fH: 15.63 kHz, fV: 50 Hz [576i (625i)] fH: 45.00 kHz, fV: 60 Hz [720 (750)/60p] fH: 33.75 kHz, fV: 60 Hz [1080 (1125)/60i] fH: 33.75 kHz, fV: 60 Hz [1080 (1125)/60i] fH: 33.75 kHz, fV: 30 Hz [1080/30p] fH: 56.25 kHz, fV: 50 Hz [1080/50p] fH: 31.50 kHz, fV: 60 Hz [480p (525p)] fH: 37.50 kHz, fV: 50 Hz [720 (750)/50p] fH: 28.13 kHz, fV: 50 Hz [1080 (1125)/50i] fH: 27.00 kHz, fV: 24 Hz [1080/24p] fH: 33.75 kHz, fV: 60 Hz [1080/30sF]
	Video/S-Video		fH: 15.75 kHz, fV: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60], fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]	
Optical axis shift			With the ET-ELW06: vertical ±39% from center of screen (powered)*3 With the ET-ELW02/ELW04/ELS03/ELM01/ELT02/ELT03: vertical ±39%, horizontal ±10% from center of screen (powered) With the ET-ELS02: vertical ±50%, horizontal ±10% from center of screen (powered) With the ET-ELW03: the optical lens shift function cannot be used.	
Keystone correction range			Vertical: Maximum ±40°, Horizontal: Maximum ±40° (with XGA signal input, for vertical/horizontal correction only, Optional lens: ET-ELS03)	
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	
		ANALOG IN	D-sub HD 15-pin (female) x 1 (RGB x 1)	
	INPUT2	RGB 5BNC IN/VIDEO IN	BNC x 5 (RGB/YPBPR/YCBCR x 1), shared with VIDEO IN (BNC x 1) (composite video)	
		S-VIDEO IN	Mini DIN 4-pin x 1 (S-Video)	
	INPUT3 INPUT4		Optional interface board slot, When the ET-MD16SD1 is installed, SERIAL IN (SDI IN 1/2): BNC x 2 (SD-SDI signal/single link HD-SDI signal) SD-SDI signal (YCBCR 4:2:2 10-BIT): 480i, 576i (SMPTE 259M-C compliant) Single-link HD-SDI signal (YPBPR 4:2:2 10-BIT): 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/25sF, 1080/24p, 1080/24sF, 1080/30p, 1080/30sF (SMPTE 292M compliant) SERIAL OUT (SDI OUT): BNC x 1 (active through)	
	SERIAL IN		D-sub 9-pin (male) x 1 for external control	D-sub 9-pin (female) x 1 for external control
	SERIAL OUT		D-sub 9-pin (male) x 1 for link control	
	REMOTE IN		M3 Jack x 1 (for wired remote control)	
	LAN		RJ-45 x 1 (for network connection, 100Base-TX/10Base-T, compliant with PJLink™ [class1])	
	USB		USB type-B (USB connector) x 1*5	
Cabinet materials			Molded plastic	
Dimensions (W x H x D)			650 x 349 x 815 mm (25.6" x 13.7" x 32.1") (with legs at shortest position, optional lens not included)	538.5 x 268 x 757 mm (21.2" x 10.6" x 29.8") (with legs at shortest position, optional lens not included)
Weight			Approximately 46.5 kg (102.5 lbs) (optional lens not included)	Approximately 28 kg (61.7 lbs) (optional lens not included)
Noise level			51 dB (lamp power: Normal/Eco2), 48 dB (lamp power: Eco1)	42 dB (lamp power: Normal/Eco2), 39 dB (lamp power: Eco1)
Operating temperature			5°C- 40°C [41°F-104°F] (less than 1,800 m [5,906 ft] above sea level), 5°C- 30°C [41°F-86°F] (between 1,800 m and 2,700 m [5,906 ft to 8,858 ft] above sea level)	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)
Operating humidity			20–80 % (no condensation)	
Supplied accessories			Power cord x2, power cord holder/power cord cover x1 set, wireless/wired remote control unit, batteries (AAA/R03/LR03 type x 2), VGA cable x 1, software CD-ROM (Logo Transfer Software, Multi Projector Monitoring & Control Software, Real Color Manager Pro.), lens attachment x1 set, lens lock lever fixing bracket x1 set, lightshielding plate x3 sets, spacer x1 set, cable tie x3	

*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.

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