

Specifications

Main unit		
Power supply		100–240 V AC, 50/60 Hz
Power consumption		310 W (0.42 W when STANDBY MODE set to ECO ,*1 9.5 W when STANDBY MODE set to NETWORK .)
LCD panel	Panel size	15.0 mm (0.59 inches) diagonal (16:10 aspect ratio)
	Display method	Transparent LCD panel (x 3, R/G/B)
	Pixels	1,024,000 (1,280 x 800) x 3, total of 3,072,000 pixels
	Pixel configuration	Stripe
Lens		Fixed (0.5:1 throw ratio), manual focus, F 1.8, f 6.68 mm
Lamp		230 W UHM lamp x 1
Screen size		1.52–2.79 m (60–110 inches) diagonally, 16:10 aspect ratio
Colors		Full color (16,777,216 colors)
Brightness**		2,500 lumens (LAMP POWER: NORMAL)
Center-to-corner uniformity**		80%
Contrast**		500:1 (full on/off, LAMP POWER: NORMAL)
Resolution		1,280 x 800 pixels (Input signals that exceed this resolution will be converted to 1,280 x 800 pixels.)
Scanning frequency	HDMI	fH: 25 kHz–80 kHz, fV: 50 Hz–85 Hz, dot clock: 162 MHz or lower
	RGB	fH: 15 kHz–100 kHz, fV: 50 Hz–100 Hz, dot clock: 140 MHz or lower (Signals above 140 MHz are downsampled.)
	YPbPr (YCbCr)	480i (525i): fH 15.75 kHz; fV 60 Hz, 576i (625i): fH 15.63 kHz; fV 50 Hz, 480p (525p): fH 31.50 kHz; fV 60 Hz, 576p (625p): fH 31.25 kHz; fV 50 Hz, 720 (750)/60p: fH 45.00 kHz; fV 60 Hz, 720 (750)/50p: fH 37.50 kHz; fV 50 Hz, 1080 (1125)/60i: fH 33.75 kHz; fV 60 Hz, 1080 (1125)/50i: fH 28.13 kHz; fV 50 Hz
	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	10–1.44 (fixed)
Keystone correction range		Vertical: ±20°
Installation		Ceiling/desk, front/rear (menu selection)
Built-in speaker	Size	3.7 cm (1-15/32 inches) (round) x 1
	Output power	10 W (monaural)
Terminals	HDMI IN	HDMI 19-pin x 1, HDCP compatible 480p (525p), 576p (625p), 720 (750)/60p, 720 (750)/50p, 1080 (1125)/60i, 1080 (1125)/50i, 1080 (1125)/60p, 1080 (1125)/50p VGA (640 x 480)–WUXGA*2 (1,920 x 1,200), Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
	COMPUTER (RGB) 1 IN R, G, B	D-sub HD 15-pin (female) x 1 G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL (positive/negative)
	Y, Pb (Cb), Pr (Cr)	Y: 1.0 Vp-p (including sync signal); Pb (Cb), Pr (Cr): 0.7 Vp-p, 75 ohms
	COMPUTER (RGB) 2 IN / 1 OUT R, G, B	D-sub HD 15-pin (female) x 1 (input/output selectable using on-screen menu) G: 0.7 Vp-p (1.0 Vp-p for sync on G), 75 ohms; B, R: 0.7 Vp-p, 75 ohms; HD/VD, SYNC: high impedance, TTL (positive/negative)
	VIDEO IN	RCA pin x 1, 1.0 Vp-p, 75 ohms
	S-VIDEO IN	Mini DIN 4-pin x 1, Y: 1.0 Vp-p; C: 0.286 Vp-p, 75 ohms

	COMPUTER AUDIO IN	M3 (L, R) x 1, 0.5 Vrms
	VIDEO/S-VIDEO AUDIO IN	RCA x 2 (L/R x 1), 0.5 Vrms
	AUDIO OUT	M3 (L, R) x 1 (monitor out: 0–2.0 Vrms, variable)
	SERIAL IN	D-sub 9-pin (male) x 1, for external control (RS-232C compliant)
	LAN	RJ-45 x 1, for network connection, 100Base-TX/10Base-T, compliant with PLink™
	USB	USB x 1, for interactive function
Power cord length		2.0 m (6 ft 7 in)
Cabinet materials		Molded plastic (PC)
Dimensions (W x H x D)		350 mm x 143 mm*4 x 389 mm (13-25/32 x 5-5/8**4 x 15-5/16 inches)
Weight		Approximately 4.7 kg (10.4 lbs)
Operation noise		36 dB (LAMP POWER: NORMAL), 29 dB (LAMP POWER: ECO)
Operating temperature		0–35 °C (32–95 °F) up to 1,200 m (3,937 ft) above sea level, 0–30 °C (32–86 °F) between 1,200 m and 2,700 m (3,937 ft and 8,858 ft) above sea level.
Operating humidity		20%–80% (no condensation)
Remote control unit		
Power supply		3 V DC (R03/LR03/AAA type battery x 2)
Operation range*5		Approximately 7 m (23 ft) when operated from directly in front of the signal receptor
Dimensions (W x H x D)		52 x 110 x 18 mm (2-1/16 x 4-11/32 x 23/32 inches)
Weight		Approx. 67 g (2.4 oz) (including batteries)
Supplied accessories		
		Power cord with security lock (x 1) (x 2 for PT-TW231REA)
		Wireless remote control unit (x 1)
		Batteries for remote control (R03/LR03/AAA type x 6)
		Computer cable (for VGA, 1.8 m / 5 ft 11 in) (x 1)
		Interactive pen (x 1)
		Interactive pointer (x 1)
		USB cable (4.5 m / 14 ft 9 in) (x 1)
		Software CD-ROM (Logo Transfer Software, Multi Projector Monitoring and Control Software) (x 1)
		Software CD-ROM (LightPen II) (x 1)
Optional accessories		
Ceiling mount bracket		ET-PKV100H (for high ceilings) ET-PKV100S (for low ceilings)
Bracket assembly		ET-PKT100B
Replacement lamp unit		ET-LAT100
Replacement filter unit		ET-RFT100
Interactive pen		ET-PEN100
Interactive pointer		ET-PNT100