

# Compact and powerful LCD projectors

PT-EW650

LCD, 5800 lumens, WXGA, Digital Link, 10000:1, up to 15000 hours maintenance free



LCD Projectors  
PT-EZ590, EW650, EX620, EW550, EX520  
PT-EZ590L, EW650L, EX620L, EW550L, EX520L



## KEY FEATURES

- LCD, 5800 lumens, WXGA
- High brightness in compact and lightweight body
- Dust resistant cabinet and up to 15 000 hours maintenance free Eco Filter
- Powered with lens-shift and a wide range of optional lenses
- 10,000:1 contrast ratio (in high contrast mode)

## Excellent Picture Quality

- High brightness of up to 5,800 lm from a compact body
- Dynamic 10,000:1 contrast performance with iris
- High resolution up to WXGA for detailed full HD images
- Daylight View Basic function ensures clear and vivid image quality in bright environments
- DICOM simulation mode<sup>\*\*1</sup> for medical presentations
- Color Adjustment function to correct color variations in multi-projector applications

## SPECIFICATIONS

<b>Power Supply</b>	AC100 - 240V 5.3 - 2.1A 50Hz/60Hz
<b>Power Consumption</b>	461W
<b>Power Consumption   Standby Mode (Eco)</b>	0.5W, 0.3W (Taiwan)
<b>Power Consumption   Standby Mode (Normal)</b>	12W
<b>Power Consumption   Standby Mode (Normal and Audio Monitor Out)</b>	30W
<b>BTU Value</b>	Max 1,573BTU
<b>LCD Panel   Panel Size</b>	16.3 mm (0.64 in) diagonal (16:10 aspect ratio)
<b>LCD Panel   Display Method</b>	Transparent LCD panel (x 3, R/G/B)
<b>LCD Panel   Drive Method</b>	Active matrix
<b>LCD Panel   Pixels</b>	1,024,000 (1,280 x 800) x 3, total of 3,072,000 pixels
<b>Lens</b>	Powered zoom (throw ratio 1.22-2.26:1), powered focus, F 1.6-2.2, f 17.1-31.7 mm
<b>Lamp</b>	320 W UHM lamp Lamp replacement cycle 4,000 hours (lamp power: Normal), 5,000 hours (lamp power: Eco) This is the maximum value when the lamp is turned on for 2 hours and off for 0.25 hours.
<b>Screen Size</b>	1.02- 10.16 m (40-400 inches) (16:10 aspect ratio)
<b>Brightness</b>	5,800 lumens (Lamp power: Normal, Dynamic mode, Iris off, Daylight View:off, Auto Power Save:off)
<b>Center-to-Corner Uniformity</b>	90%
<b>Contrast</b>	10,000:1 (Lamp power: Normal, Dynamic mode, Iris on, Daylight View:off, Auto Power Save:off)
<b>Resolution</b>	1,280 x 800 pixels (WXGA)
<b>Scanning Frequency   HDMI/DIGITAL LINK</b>	fH: 15- 90kHz, fV: 24 - 100Hz, dot clock: 25 - 162 MHz
<b>Scanning Frequency   RGB</b>	fH: 15- 90kHz, fV: 24 - 100Hz, dot clock: 162 MHz or lower
<b>Scanning Frequency   YPBPR (YCBCR)</b>	525i (480i): fH15.73 kHz; fV59.94 Hz, 625i (576i): fH15.63 kHz; fV50 Hz, 525p (480p): fH31.47 kHz; fV60 Hz, 625p (576p): fH31.25 kHz; fV50 Hz, 750 (720)/60p: fH45.00 kHz; fV60 Hz, 750 (720)/50p: fH37.50 kHz; fV50 Hz, 1125 (1080)/60i: fH33.75 kHz; fV60 Hz, 1125 (1080)/50i: fH28.13 kHz; fV50 Hz, 1125 (1080)/25p: fH28.13 kHz; fV25 Hz, 1125 (1080)/24p: fH27.00 kHz; fV24 Hz, 1125 (1080)/24sF: fH27.00 kHz; fV48 Hz, 1125 (1080)/30p: fH33.75 kHz; fV30 Hz, 1125 (1080)/60p: fH67.50 kHz; fV60 Hz, 1125 (1080)/50p: fH56.25 kHz; fV50 Hz
<b>Scanning Frequency   Video/S-Video</b>	fH: 15.75 kHz, fV: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60] fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]
<b>Keystone Correction Range</b>	Vertical $\pm 35^\circ$ , horizontal $\pm 35^\circ$
<b>Optical Axis Shift</b>	Vertical: $\pm 60\%$ (powered) Horizontal: $\pm 30\%$ (powered)
<b>Installation</b>	Ceiling/oor, front/rear
<b>Speaker</b>	4.0 cm (1-9/16 in) (monaural) x 1
<b>Terminals   HDMI In 1/HDMI In 2   HDMI 19-Pin x2</b>	Deep Color, compatible with HDCP, Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
<b>Terminals   DIGITAL LINK In</b>	RJ-45 x 1 (HDBase™ compatible), Deep Color, compatible with HDCP, Audio signal: linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)
<b>Terminals   RGB 1 In</b>	BNC x 5

<b>Terminals   RGB 1 In   R, G, B</b>	0.7 Vp-p, 75 ohms, (G: 1.0 Vp-p, 75 ohms for sync on G) H D/VD, SYNC: TTL, high impedance, positive/negative automatic
<b>Terminals   RGB 1 In   Y, PB, PR (Y, CB, CR)</b>	Y: 1.0 Vp-p (including sync signal), PBPR(CBCR): 0.7 Vp-p, 75 ohms
<b>Terminals   RGB 1 In   Y/C</b>	Y: 1.0 Vp-p (including sync signal), C: 0.286 Vp-p, 75 ohms
<b>Terminals   RGB 2 In</b>	D-sub HD 15-pin (female) x 1
<b>Terminals   RGB 2 In   R, G, B</b>	0.7 Vp-p, 75 ohms, (G: 1.0 Vp-p, 75 ohms for sync on G) H D/VD, SYNC: TTL, high impedance, positive/negative automatic NOTE: SYNC/HD and VD terminals do not accept tri-level sync signals.
<b>Terminals   RGB 2 In   Y, PB, PR (Y, CB, CR)</b>	Y: 1.0 Vp-p (including sync signal), PBPR(CBCR): 0.7 Vp-p, 75 ohms
<b>Terminals   Video In</b>	Pin jack x 1, 1.0 Vp-p, 75 ohms
<b>Terminals   Monitor Out</b>	D-sub HD 15-pin (female) x 1
<b>Terminals   Monitor Out   R, G, B</b>	0.7 Vp-p, 75 ohms, (G: 1.0 Vp-p, 75 ohms for sync on G) H D/VD, SYNC: TTL, high impedance, positive/negative automatic
<b>Terminals   Monitor Out   Y, PB, PR</b>	Y: 1.0 Vp-p (including sync signal), PBPR: 0.7 Vp-p, 75 ohms
<b>Terminals   Audio In 1/Audio In 2</b>	M3 x 2, 0.5 Vrms, input impedance: 22 kilohms or more
<b>Terminals   Audio In 3</b>	Pin jack(L, R) x 1, 0.5 Vrms, input impedance: 22 kilohms or more
<b>Terminals   Variable Audio Out</b>	M3 x 1 (monitor out, stereo) 0-2.0 Vrms, variable, output impedance: 2.2 kilohms or less
<b>Terminals   Serial In</b>	D-sub 9 p x 1, for external control (RS-232C compliant)
<b>Terminals   Remoter 1 In</b>	D-sub 9-pin (female) x1, for external control (parallel)
<b>Terminals   Remoter 2 In</b>	M3 jack x 1 for wired remote control
<b>Terminals   LAN</b>	RJ-45 x 1 for network connection 10Base-T/100Base-TX, compatible with Art-Net, PJLink™(Class 1)
<b>Terminals   Wireless</b>	USB Type A x 1, for wireless projection with optional dongle (ET-WML100)
<b>Terminals   DC Out</b>	USB Type A x 1, for power supply (DC5 V, max 900 mA)
<b>Power Cord Length</b>	3.0 m (9 ft10 in)
<b>Cabinet Materials</b>	Molded plastic
<b>Dimensions (W x H x D)</b>	498 x 145 x 398.3mm (19-19/32 x 5-11/16*3 x 15-11/16 in ) with supplied lens
<b>Weight</b>	Approx. 8.4kg (18.5lbs)
<b>Operating Noise</b>	29 dB (Silent), 35 dB (Normal/Eco)
<b>Operating Environment   Operating Temperature</b>	0-45 °C (32-113 °F)
<b>Operating Environment   Operating Humidity</b>	20%-80% (no condensation)
<b>Technology</b>	LCD

URL: <https://business.panasonic.co.uk/visual-system/pt-ew650-0>

## CONTACT

Web: <https://business.panasonic.co.uk/visual-system/contact-us>