



LCD, 5,400 lumens, WUXGA, Digital Link

## PT-EZ590

Compact and powerful LCD projectors Designed to light up lecture theaters and conference rooms

### Key Features

LCD, 5,400 lumens, WUXGA

High brightness and high resolution 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)



PT-EZ590

<https://ap.connect.panasonic.com/vn/en/products/projectors/pt-ez590>

<b>Power Supply</b>	AC100 - 240V 5.5 - 2.3A 50Hz/60Hz
<b>Power Consumption</b>	484W
<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 1,651 BTU
<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>	2,304,000 (1,920 x 1,200) x 3, total of 6,912,000 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>	320W 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>	5,400 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>	1,920 x 1,200 pixels (WUXGA)
<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: $\pm 40^\circ$ , horizontal: $\pm 20^\circ$  (up to a total of $\pm 60^\circ$ during simultaneous horizontal and vertical correction)
<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</b>	HDMI 19-pin x2, 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 (HDBaseT™ 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) HD/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 mor
<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, PLink™(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*3 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) * 5
<b>Operating Environment   Operating Humidity</b>	20%-80% (no condensation)
<b>Technology</b>	LCD