

# Panasonic

## PT-EZ580 Series

LCD Projectors

PT-EZ580/PT-EZ580L  
PT-EW640/PT-EW640L  
PT-EW540/PT-EW540L  
PT-EX610/PT-EX610L  
PT-EX510/PT-EX510L



# Smart Choice.

Bright, Quiet, and Economical Projection Solutions



|                 |          |           |      |
|-----------------|----------|-----------|------|
| PT-EZ580/EZ580L | 5,400 lm | 5,000 : 1 | WXGA |
| PT-EW640/EW640L | 5,800 lm | 5,000 : 1 | WXGA |
| PT-EW540/EW540L | 5,000 lm | 2,000 : 1 | WXGA |
| PT-EX610/EX610L | 6,200 lm | 5,000 : 1 | XGA  |
| PT-EX510/EX510L | 5,300 lm | 2,000 : 1 | XGA  |



| Specifications                |                                                                                                                                                                                                                              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Model                         | PT-EZ580/EZ580L                                                                                                                                                                                                              | PT-EW640/EW640L                                                                                                                                                                                                        | PT-EW540/EW540L                                                                                                                                                                                                                  | PT-EX610/EX610L                                                                                                                                                                       | PT-EX510/EX510L                                                                                                                                       |  |
| Power supply                  | 100-240 V AC, 50/60 Hz                                                                                                                                                                                                       |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Power consumption             | 510 W [0.3 W with Standby Mode set to Eco*, 10 W with Standby Mode set to Normal, 37 W with the Audio Setting's In Standby Mode set to ON.]                                                                                  |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| LCD panel                     | Panel size                                                                                                                                                                                                                   | 19.0 mm [0.76"] diagonal [16:10 aspect ratio]                                                                                                                                                                          |                                                                                                                                                                                                                                  |                                                                                                                                                                                       | 20.0 mm [0.79"] diagonal [4:3 aspect ratio]                                                                                                           |  |
|                               | Display method                                                                                                                                                                                                               | Transparent LCD panel (x 3, R/G/B)                                                                                                                                                                                     |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | Drive method                                                                                                                                                                                                                 | Active matrix                                                                                                                                                                                                          |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | Pixels                                                                                                                                                                                                                       | 2,304,000 [1,920 x 1,200] x 3, total of 6,912,000 pixels                                                                                                                                                               | 1,024,000 [1,280 x 800] x 3, total of 3,072,000 pixels                                                                                                                                                                           |                                                                                                                                                                                       | 786,432 [1,024 x 768] x 3, total of 2,359,296 pixels                                                                                                  |  |
| Lens                          | PT-EZ580/EW640/EW540/EX610/EX510: powered zoom [1.7-2.8:1], powered focus F 1.7-2.3, f 26.9-45.4 mm.<br>PT-EZ580L/EW640L/EW540L/EX610L/EX510L: optional powered zoom/focus and fixed-focus lens                              |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Lamp                          | 335 W UHM lamp x 1                                                                                                                                                                                                           |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Lamp replacement cycle        | 4,000 hours*2 (lamp power: Normal), 4,500 hours*2 (lamp power: Eco)                                                                                                                                                          |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Screen size (diagonal)        | 1.02-10.16 m [40-400 in], 16:10 aspect ratio                                                                                                                                                                                 |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  | 1.02-10.16 m [40-400 in], 4:3 aspect ratio                                                                                                                                            |                                                                                                                                                       |  |
| Brightness*3                  | 5,400 lm (lamp power: Auto/Normal, Dynamic Mode, standard lens)                                                                                                                                                              | 5,800 lm (lamp power: Auto/Normal, Dynamic Mode, standard lens)                                                                                                                                                        | 5,000 lm (lamp power: Auto/Normal, Dynamic Mode, standard lens)                                                                                                                                                                  | 6,200 lm (lamp power: Auto/Normal, Dynamic Mode, standard lens)                                                                                                                       | 5,300 lm (lamp power: Auto/Normal, Dynamic Mode, standard lens)                                                                                       |  |
| Center-to-corner uniformity*3 | 90 %                                                                                                                                                                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Contrast*3                    | 5,000:1 (full on/full off, lamp power: Auto, Iris: ON)                                                                                                                                                                       |                                                                                                                                                                                                                        | 2,000:1 (full on/full off, lamp power: Auto)                                                                                                                                                                                     | 5,000:1 (full on/full off, lamp power: Auto, Iris: ON)                                                                                                                                |                                                                                                                                                       |  |
| Resolution                    | 1,920 x 1,200 pixels                                                                                                                                                                                                         | 1,280 x 800 pixels (Input signals that exceed this resolution will be converted to 1,280 x 800 pixels)                                                                                                                 |                                                                                                                                                                                                                                  | 1,024 x 768 pixels (Input signals that exceed this resolution will be converted to 1,024 x 768 pixels)                                                                                |                                                                                                                                                       |  |
| Scanning frequency            | DVI-D/HDMI/DisplayPort/DIGITAL LINK                                                                                                                                                                                          | Dot clock: 25 MHz-162 MHz (VGA: 640 x 480 pixels to WUXGA: 1,920 x 1,200 pixels, VESA CVT-RB compliant, compatible with HDCP)<br>DisplayPort and DIGITAL LINK not included on PT-EW540/EW540L and PT-EX510/EX510L.     |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | RGB (analog)                                                                                                                                                                                                                 | fr: 15 kHz - 91 kHz, fv: 24 Hz - 120 Hz, dot clock: up to 162 MHz                                                                                                                                                      |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | YPbPr (YCbCr)                                                                                                                                                                                                                | fr: 15.73 kHz, fv: 59.94 Hz [480i [525i]]<br>fr: 31.47 kHz, fv: 59.94 Hz [480p [525p]]<br>fr: 15.63 kHz, fv: 50 Hz [576i [625i]]<br>fr: 31.25 kHz, fv: 50 Hz [576p [625p]]<br>fr: 45.00 kHz, fv: 60 Hz [720 [750]/60p] | fr: 37.50 kHz, fv: 50 Hz [720 [750]/50p]<br>fr: 33.75 kHz, fv: 60 Hz [1080 [1125]/60i]<br>fr: 28.13 kHz, fv: 50 Hz [1080 [1125]/50i]<br>fr: 28.13 kHz, fv: 25 Hz [1080 [1125]/25p]<br>fr: 27.00 kHz, fv: 24 Hz [1080 [1125]/24p] | fr: 27.00 kHz, fv: 48 Hz [1080 [1125]/24sF]<br>fr: 33.75 kHz, fv: 30 Hz [1080 [1125]/30p]<br>fr: 67.50 kHz, fv: 60 Hz [1080 [1125]/60p]<br>fr: 56.25 kHz, fv: 50 Hz [1080 [1125]/50p] |                                                                                                                                                       |  |
|                               | Video/YC                                                                                                                                                                                                                     | fr: 15.73 kHz, fv: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60], fr: 15.63 kHz, fv: 50 Hz [PAL/SECAM/PAL-N]                                                                                                                    |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Optical axis shift            | Vertical ±60 %, horizontal ±10 % from center of screen (powered)*4                                                                                                                                                           |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  | Vertical ±50 %, horizontal ±10 % from center of screen (powered)*4                                                                                                                    |                                                                                                                                                       |  |
| Keystone correction range     | Vertical: ±40*5, horizontal: ±30*5                                                                                                                                                                                           |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Installation                  | Ceiling/floor, front/rear                                                                                                                                                                                                    |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Built-in speaker              | 3.7 cm round shape x 1, output power: 10.0 W (monaural)                                                                                                                                                                      |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Terminals                     | DVI-D IN: DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)                                                                                                                       |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | HDMI IN: HDMI 19-pin x 1 (Deep Color, compatible with HDCP), audio signal: Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)                                                                                           |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | DisplayPort IN: DisplayPort 20-pin x 1 (DisplayPort 1.1, compatible with HDCP), audio signal: Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)                                                                        |                                                                                                                                                                                                                        | —                                                                                                                                                                                                                                |                                                                                                                                                                                       | DisplayPort IN: DisplayPort 20-pin x 1 (DisplayPort 1.1, compatible with HDCP), audio signal: Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz) |  |
|                               | RGB 1 IN: D-sub HD 15-pin (female) x 1                                                                                                                                                                                       |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | RGB 2 IN: BNC x 5 (RGB/Y • Pb [Ca] • Pr [Cr] x 1), shared with VIDEO IN (S-video/composite video)                                                                                                                            |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | VIDEO IN: Pin jack x 1                                                                                                                                                                                                       |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | MONITOR OUT: D-sub 15-pin (female) x 1 (compatible with RGB/Y • Pb [Ca] • Pr [Cr])                                                                                                                                           |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | AUDIO IN: Pin jack (L/R) x 1, M3 x 2                                                                                                                                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | AUDIO OUT: M3 x 1 (variable)                                                                                                                                                                                                 |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | SERIAL IN: D-sub 9-pin (female) x 1 for external control                                                                                                                                                                     |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | REMOTE IN: M3 x 1 for wired remote control                                                                                                                                                                                   |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | REMOTE IN 2: D-sub 9-pin (female) x 1 for external control                                                                                                                                                                   |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
|                               | LAN: RJ-45 x 1 for network connection, DIGITAL LINK, 100Base-TX, compatible with PjLink™                                                                                                                                     |                                                                                                                                                                                                                        | LAN: RJ-45 x 1 for network connection, 10Base-T, 100Base-TX, compatible with PjLink™                                                                                                                                             |                                                                                                                                                                                       | LAN: RJ-45 x 1 for network connection, DIGITAL LINK, 100Base-TX, compatible with PjLink™                                                              |  |
|                               | LAN: RJ-45 x 1 for network connection, 10Base-T, 100Base-TX, compatible with PjLink™                                                                                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Operating noise*3             | 35 dB (lamp power: Normal), 29 dB (lamp power: Eco)                                                                                                                                                                          |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Filter                        | x 1, replacement cycle: up to 17,000 hours*8                                                                                                                                                                                 |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Mechanical shutter            | Yes                                                                                                                                                                                                                          | — (AV mute)                                                                                                                                                                                                            |                                                                                                                                                                                                                                  | Yes                                                                                                                                                                                   | — (AV mute)                                                                                                                                           |  |
| Cabinet materials             | Molded plastic (PC + ABS)                                                                                                                                                                                                    |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Dimensions (W x H x D)        | PT-EZ580/EW640/EX610/EW540/EX510: 530 x 177*9 x 445 mm [20-7/8 x 6-31/32*9 x 17-1/2 in] (with supplied lens)<br>PT-EZ580L/EW640L/EX610L/EW540L/EX510L: 530 x 177*9 x 385 mm [20-7/8 x 6-31/32*9 x 15-5/32 in] (without lens) |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Weight*7                      | PT-EZ580/EW640/EX610/EW540/EX510: Approximately 10.6 kg [23.4 lbs] (with supplied lens)<br>PT-EZ580L/EW640L/EX610L/EW540L/EX510L: Approximately 9.8 kg [21.6 lbs] (without lens)                                             |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Operating environment         | Operating temperature: 0 °C-45 °C [32 °F-113 °F]*10, operating humidity: 10 %-80 % (no condensation)                                                                                                                         |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |
| Supplied accessories          | Power cord with power cord holder, wireless/wired remote control unit x 1, batteries (R03/LR03/AAA type x 2), Software CD-ROM x 1 (Logo Transfer Software, Multi Projector Monitoring and Control Software)                  |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                  |                                                                                                                                                                                       |                                                                                                                                                       |  |

\*1 When the Standby Mode is set to Eco, network functions such as Power On via LAN will not operate. Also, only certain commands can be received for external control using the serial terminal.

\*2 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. \*3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. \*4 The axis shift function cannot be used with the ET-ELW21. \*5 With vertical correction only. \*6 With horizontal correction only. \*7 Average value. May differ depending on the actual unit. \*8 The usage environment affects the duration of the filter. \*9 With legs at shortest position. \*10 The operating temperature range is 0 °C to 40 °C [32 °F to 104 °F] when used at altitudes between 1,400 m and 2,700 m [4,593 ft to 8,858 ft] above sea level. When operating temperature exceeds 40 °C [35 °C at high altitude], lamp power may automatically switch to Eco in order to protect the projector. Models with an "L" designation are sold without a lens.

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