

## High Powered, High Performance



- High image quality
  - 3200 lumens
  - Progressive cinema scan (3/2 pulldown)
  - 3D digital comb filter
  - Dynamic sharpness control
- Flexible system applications
  - Powered zoom/focus lens
  - Optional lenses for various venues
  - Easy lens replacement
  - Multiple terminals including DVI
  - Quiet operation
- Networking
  - Wired LAN system
  - Web browser control/monitoring
  - E-mail message alert
- Sophisticated features
  - Direct power off
  - Anti-theft features
  - Easy lamp replacement
  - One-touch auto setup
  - H/V keystone correction

# High-Performance Projector with LAN Networking Capabilities

Panasonic's PT-L785E meets a wide range of projection needs. With 3,200 lumens of brightness, it offers a unique combination of high performance and economy for projecting in venues from small meeting rooms to auditoriums. Connected to a LAN network, it is easily remote controlled or monitored from any computer on the network—an especially great feature when using the PT-L785E as a fixed-installation projector. High performance, lots of functions, easy operation ... whatever it is you are looking for in a projector, you are sure to find it in the PT-L785E.

## High Image Quality

### 3,200 Lumens

Incorporating 1.0-inch LCD panels, a 270-watt UHM™ lamp, and a highly efficient optical system, the PT-L785E achieves outstanding brightness of 3,200 lumens.



### Progressive Cinema Scan (3/2 Pulldown)

This function automatically detects when the input signal is derived from filmed material and selects the optimum progressive processing method to assure faithful reproduction of the original image.

### 3D Digital Comb Filter

This 3-dimensional Y/C separation comb filter gives the PT-L785E its ability to project crisp, vivid video source images.

### Dynamic Sharpness Control

The Dynamic Sharpness Control circuit adjusts the video signal waveforms based on the difference in brightness of adjacent pixels for a sharp, clear picture that is relatively unaffected by signal noise.

## Flexible System Applications

### Powered Zoom/Focus Lens

The PT-L785E features a motor-driven zoom and focus lens. In a fixed installation, this means you can use the supplied remote control from virtually anywhere in the room to adjust the zoom and focus with the on-screen menu.

### Optional Lenses for Various Venues

Three optional lenses with different throw distances are available in addition to the supplied lens. These powered zoom/focus lenses enable the projectors to perform superbly in an array of projection environments, from classrooms to conference rooms.



### Easy Lens Replacement

It's a snap to replace the "click-in" type lenses used in the PT-L785E's bayonet system.

### Multiple Terminals Including DVI

The PT-L785E has an array of terminals—three RGB inputs including a 5-BNC connector and one monitor out, two video inputs, DVI-D and control capability—to support a broad range of projection needs.

### Quiet Operation

The unique Panasonic silence design ensures that the audience is not disturbed by projector noise, so they can concentrate fully on your presentation.

## Networking

### Wired LAN System

The PT-L785E comes standard-equipped with a LAN connector (RJ-45) for 10Base-T/100Base-TX connection. Simply hook it up to your existing LAN network for easy remote control and/or monitoring. System administrators will appreciate this feature when using the PT-L785E as a fixed-installation projector.

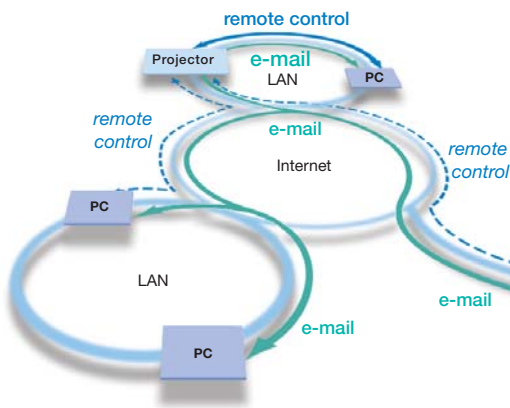
### Web Browser Control/Monitoring

Anybody can operate the PT-L785E by remote control or monitor its status over a LAN network, because it is all done using the computer's familiar Web browser.



### E-Mail Message Alert

The PT-L785E automatically sends an e-mail message to notify the operator when an error has occurred, or a lamp needs to be replaced.



The bayonet system makes lens replacement quick and easy.

## Sophisticated Features

### Direct Power Off

When the presentation is done, Direct Power Off lets you turn off the projector right away while minimising lamp damage, because the cooling fan keeps operating until the lamp is cooled. With fixed installations, this means you can turn off the room's main power without waiting for the projector to cool down.

### Anti-Theft Features

The PT-L785E is designed with effective anti-theft features, including a User Password, Control Panel Lock and Text Superimposing. It also has a security lock slot compatible with the Kensington MicroSaver® cable.

### Easy Lamp Replacement

Lamp replacement is a snap—just open the back panel and install a new lamp.



### One-Touch Auto Setup

The projector handles all image adjustments, from phasing and dot clocks to vertical and horizontal position. Simply press the Auto Setup button to automatically tune and adjust the image for optimal viewing.

### H/V Keystone Correction

The PT-L785E handles both vertical (up/down) and horizontal (left/right) keystone correction adjustments. This ensures high-precision presentations whether you are using the PT-L785E as a portable unit or in a fixed installation.



## More Valuable Features

- HDTV compatibility
- Full compatibility with sRGB colour space for accurate colour reproduction (in natural mode)
- colour temperature selection (standard/high/low)
- Picture mode selection (standard/dynamic/natural)
- 4x digital zoom
- Advanced shutter function for image muting
- Freeze
- Selectable 9-language on-screen menu (English, German, French, Spanish, Italian, Russian, Japanese, Chinese, Korean)
- Full-function wireless remote with mouse control and laser pointer
- Ceiling mountable (option)
- Lamp power high/low selection
- Temperature warning indication
- Lamp replacement warning indication
- Built-in carrying handle
- Cable cover supplied

The supplied cable cover can be used as a storage container for cables and the remote control when putting the projector away or just moving it. In the ceiling-mounted configuration, this cover hides the cable connections, protects the terminals, and gives the unit a neat appearance.



Photo shows the PT-L785E mounted on the optional ceiling mount bracket ET-PK780.



Supplied full-function wireless remote control with mouse control and laser pointer



Side view

## Specifications

|                                          |                                                                   |
|------------------------------------------|-------------------------------------------------------------------|
| <b>Power supply</b>                      | 100–240 V AC, 50/60 Hz                                            |
| <b>Power consumption</b>                 | 380 W (max. 11 W in standby mode with fan stopped)                |
| <b>Optical system</b>                    | Dichroic mirror separation/prism synthesis system                 |
| <b>LCD panel</b>                         |                                                                   |
| <b>Panel size</b>                        | 1.0" diagonal with micro lens array (4:3 aspect ratio)            |
| <b>Display method</b>                    | Transparent LCD panel (x 3, R/G/B)                                |
| <b>Drive method</b>                      | Active matrix                                                     |
| <b>Pixels</b>                            | 786,432 (1,024 x 768) x 3, total of 2,359,296 pixels              |
| <b>Pixel configuration</b>               | Stripe                                                            |
| <b>Lens</b>                              | Powered zoom/focus lens (1:1–1:1.3), F 1.7–2.1, f 40.7–52.8 mm    |
| <b>Lamp</b>                              | 270 W UHM™ lamp                                                   |
| <b>Projection size</b>                   | 1,016–7,620 mm (40–300 inches) diagonally (4:3 aspect ratio)      |
| <b>colours</b>                           | Full colour (16,777,216 colours)                                  |
| <b>Brightness</b>                        | 3,200 lumens                                                      |
| <b>Centre-to-corner uniformity ratio</b> | 90%                                                               |
| <b>Contrast ratio</b>                    | 500:1                                                             |
| <b>Scanning frequency</b>                |                                                                   |
| <b>RGB</b>                               | Horizontal: 15–91 kHz,                                            |
| <b>YPbPr</b>                             | Vertical: 50–87 Hz                                                |
|                                          | 480i (525i): fh 15.75 kHz; fv 60 Hz                               |
|                                          | 576i (625i): fh 15.63 kHz; fv 50 Hz                               |
|                                          | 480p (525p): fh 31.5 kHz; fv 60 Hz                                |
|                                          | 576p (625p): fh 31.25 kHz; fv 50 Hz                               |
|                                          | 720p (750p): fh 45 kHz; fv 60 Hz                                  |
|                                          | 1080i (1125i): fh 33.75 kHz; fv 60 Hz                             |
|                                          | 1080i (1125i): fh 28.125 kHz; fv 50 Hz                            |
| <b>S-Video/Video</b>                     | NTSC, NTSC4.43, PAL-M, PAL60: fh 15.75 kHz; fv 60 Hz              |
|                                          | PAL, SECAM, PAL-N: fh 15.63 kHz; fv 50 Hz                         |
| <b>Optical axis shift</b>                | 10:0 (fixed)                                                      |
| <b>Keystone correction range</b> *1      | Vertical: ±35° with no horizontal correction (with supplied lens) |
|                                          | Horizontal: ±7° with no vertical correction (with supplied lens)  |

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Installation</b>           | Ceiling/desk, front/rear (menu selection)                         |
| <b>Built-in speakers</b>      |                                                                   |
| <b>Size</b>                   | 4 x 3 cm/1.6" x 1.2" (x 2)                                        |
| <b>Output power</b>           | 2.0 W + 2.0 W                                                     |
| <b>Terminals</b>              |                                                                   |
| <b>DVI-D IN</b>               | DVI-D 24-pin x 1                                                  |
| <b>RGB 1 IN</b>               | D-sub HD 15-pin x 1                                               |
| <b>RGB signal</b>             | G: 0.7 Vp-p (1.0 Vp-p for Sync on G), 75 Ω; R, B: 0.7 Vp-p, 75 Ω  |
|                               | HD, VD, SYNC: TTL, high impedance (positive/negative polarity)    |
| <b>YPbPr signal</b>           | Y: 1.0 Vp-p (including sync signal), 75 Ω; PB, PR: 0.7 Vp-p, 75 Ω |
| <b>RGB 2 IN/RGB OUT</b> *2    | D-sub HD 15-pin x 1                                               |
| <b>RGB signal</b>             | G: 0.7 Vp-p (1.0 Vp-p for Sync on G), 75 Ω; R, B: 0.7 Vp-p, 75 Ω  |
|                               | HD, VD, SYNC: TTL, high impedance (positive/negative polarity)    |
| <b>YPbPr signal</b>           | Y: 1.0 Vp-p (including sync signal), 75 Ω; PB, PR: 0.7 Vp-p, 75 Ω |
| <b>RGB 3 IN</b>               | 5-BNC x 1                                                         |
| <b>RGB signal</b>             | G: 0.7 Vp-p (1.0 Vp-p for Sync on G), 75 Ω; R, B: 0.7 Vp-p, 75 Ω  |
|                               | HD, VD, SYNC: TTL, high impedance (positive/negative polarity)    |
| <b>YPbPr signal</b>           | Y: 1.0 Vp-p (including sync signal), 75 Ω; PB, PR: 0.7 Vp-p, 75 Ω |
| <b>VIDEO IN</b>               | RCA pin x 1, 1.0 Vp-p, 75 Ω                                       |
| <b>S-VIDEO IN</b>             | Mini DIN 4-pin x 1,                                               |
|                               | Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 Ω                                  |
| <b>RGB AUDIO IN</b>           | M3 (L, R) x 1, 0.5 Vrms, common for DVI-D, RGB 1, RGB 2 and RGB 3 |
| <b>VIDEO AUDIO IN</b>         | RCA x 1 (L, R), 0.5 Vrms                                          |
| <b>AUDIO OUT</b>              | M3 (L, R) x 1, 0–2.0 Vrms (variable)                              |
| <b>SERIAL</b>                 | Mini DIN 9-pin x 1 (RS-232C)                                      |
| <b>REMOTE IN</b>              | Mini DIN 9-pin x 1                                                |
| <b>LAN</b>                    | RJ-45 x 1 (10Base-T/100Base-TX)                                   |
| <b>Power cord length</b>      | 3 m (9'10")                                                       |
| <b>Cabinet material</b>       | ABS/PC                                                            |
| <b>Dimensions (W x H x D)</b> | 290 x 137 x 406 mm (11-13/32" x 5-3/8" x 15-31/32")               |
| <b>Weight</b>                 | 5.8 kg (12.8 lbs.)                                                |

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| <b>Operating environment</b>  |                                                                                   |
| <b>Temperature</b>            | 32°–104°F (0°–40°C)                                                               |
| <b>Humidity</b>               | 20%–80% (no condensation)                                                         |
| <b>Remote control unit</b>    |                                                                                   |
| <b>Power supply</b>           | 3 V DC (Lithium AAA battery x 2)                                                  |
| <b>Operation range</b> *3     | Approx. 23 feet (7 m) when operated from directly in front of the signal receptor |
| <b>Dimensions (W x H x D)</b> | 45 x 145 x 23 mm (1-3/4" x 5-11/16" x 7/8")                                       |
| <b>Weight</b>                 | 95 g (3.4 ozs.) (including a battery)                                             |

### Supplied accessories

- Full-function remote control
- Battery for remote control
- Power cord
- RGB cable
- Cable housing

### Optional accessories

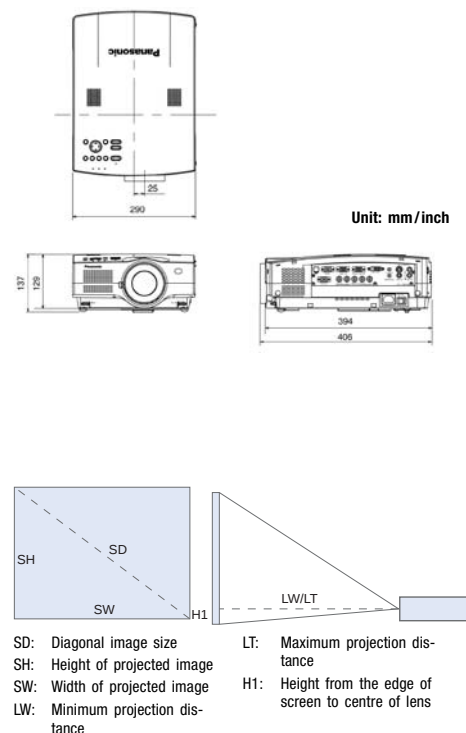
Replacement lamp unit: ET-LA785  
 Ceiling mount bracket for high ceilings: ET-PK780  
 Ceiling mount bracket for low ceilings: ET-PK780S  
 Wireless mouse receiver: ET-RMRC2  
 1.3–1.7:1 zoom lens: ET-LE10  
 2.6–4.2:1 zoom lens: ET-LE20  
 4.0–5.6:1 zoom lens: ET-LE30

\*1 Correction range differs when both vertical and horizontal keystone distortions are corrected at the same time. Also it differs depending on input signal.

\*2 Selectable with on-screen menu. Serves as an output terminal for RGB1 or RGB3 input.

\*3 Operation range differs depending on the environment.

## Dimensions



## Projection Distance

| Screen size<br>(4:3)  | Throw distance |                 |                 |                    |                 |                 |                 |                 |                 |                 |                  |                  |
|-----------------------|----------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
|                       | With ET-LE10   |                 |                 | with supplied lens |                 |                 | With ET-LE20    |                 |                 | With ET-LE30    |                  |                  |
|                       | min.           | recommended     | max.            | min.               | recommended     | max.            | min.            | recommended     | max.            | min.            | recommended      | max.             |
| 1.0 m<br>40" (3.3')   | 1.1 m<br>3.6'  | 1.3 m<br>4.3'   | 1.3 m<br>4.3'   | 1.6 m<br>5.2'      | 1.9 m<br>6.2'   | 2.0 m<br>6.6'   | 2.1 m<br>6.9'   | 2.5 m<br>8.2'   | 3.3 m<br>10.8'  | 3.4 m<br>11.2'  | 4.6 m<br>15.1'   | 4.6 m<br>15.1'   |
| 1.5 m<br>60" (5.0')   | 1.6 m<br>5.2'  | 2.0 m<br>6.6'   | 2.0 m<br>6.6'   | 2.4 m<br>7.9'      | 2.9 m<br>9.5'   | 3.1 m<br>10.2'  | 3.2 m<br>10.5'  | 3.9 m<br>12.8'  | 5.0 m<br>16.4'  | 5.0 m<br>16.4'  | 6.9 m<br>22.6'   | 6.9 m<br>22.6'   |
| 2.0 m<br>80" (6.7')   | 2.2 m<br>7.2'  | 2.7 m<br>8.9'   | 2.7 m<br>8.9'   | 3.2 m<br>10.5'     | 3.9 m<br>12.8'  | 4.2 m<br>13.8'  | 4.3 m<br>14.1'  | 5.2 m<br>17.1'  | 6.8 m<br>22.3'  | 6.6 m<br>21.7'  | 9.2 m<br>30.2'   | 9.2 m<br>30.2'   |
| 2.5 m<br>100" (8.3')  | 2.7 m<br>8.9'  | 3.5 m<br>11.5'  | 3.5 m<br>11.5'  | 4.0 m<br>13.1'     | 4.9 m<br>16.1'  | 5.3 m<br>17.4'  | 5.4 m<br>17.7'  | 6.5 m<br>21.3'  | 8.5 m<br>27.9'  | 8.2 m<br>26.9'  | 11.5 m<br>37.7'  | 11.5 m<br>37.7'  |
| 3.0 m<br>120" (10.0') | 3.2 m<br>10.5' | 4.2 m<br>13.8'  | 4.2 m<br>13.8'  | 4.8 m<br>15.7'     | 5.9 m<br>19.4'  | 6.3 m<br>20.7'  | 6.6 m<br>21.7'  | 7.9 m<br>25.9'  | 10.3 m<br>33.8' | 9.9 m<br>32.5'  | 13.8 m<br>45.3'  | 13.8 m<br>45.3'  |
| 3.8 m<br>150" (12.5') | 4.0 m<br>13.1' | 5.2 m<br>17.1'  | 5.2 m<br>17.1'  | 6.1 m<br>20.0'     | 7.4 m<br>24.3'  | 7.9 m<br>25.9'  | 8.2 m<br>26.9'  | 9.9 m<br>32.5'  | 12.9 m<br>42.3' | 12.3 m<br>40.4' | 17.3 m<br>56.8'  | 17.3 m<br>56.8'  |
| 5.1 m<br>200" (16.7') | 5.4 m<br>17.7' | 7.0 m<br>23.0'  | 7.0 m<br>23.0'  | 8.1 m<br>26.6'     | 9.8 m<br>32.2'  | 10.6 m<br>34.8' | 11.0 m<br>36.1' | 13.3 m<br>43.6' | 17.2 m<br>56.4' | 16.3 m<br>53.5' | 23.0 m<br>75.5'  | 23.0 m<br>75.5'  |
| 6.4 m<br>250" (20.8') | 6.7 m<br>22.0' | 8.8 m<br>28.9'  | 8.8 m<br>28.9'  | 10.1 m<br>33.1'    | 12.3 m<br>40.4' | 13.3 m<br>43.6' | 13.8 m<br>45.3' | 16.6 m<br>54.5' | 21.6 m<br>70.9' | 20.4 m<br>66.9' | 28.7 m<br>94.2'  | 28.7 m<br>94.2'  |
| 7.6 m<br>300" (25.0') | 8.1 m<br>26.6' | 10.6 m<br>34.8' | 10.6 m<br>34.8' | 12.2 m<br>40.0'    | 14.8 m<br>48.6' | 16.0 m<br>52.5' | 16.5 m<br>54.1' | 20.0 m<br>65.6' | 26.0 m<br>85.3' | 24.4 m<br>80.1' | 34.5 m<br>113.2' | 34.5 m<br>113.2' |

# Panasonic

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