Panasonic

PT-DZ870 Series
1-Chip DLP™ Projectors

A Bright 10,000 lm, Stunning Colors and Highly Flexible Projection

* For the PT-DX100/DX100L. 8,500 lm for the PT-DZ870/DZ870L and PT-DW830/DW830L.

The PT-DZ870/LK/DZ870/LW, PT-DW830/LK/DW830/LW, and PT-DX100/LK/DX100LW are not equipped with a lens.
The cabinet for each model is available in black (PT-DZ870/K/DW830/K/DX100/K) or white (PT-DZ870/W/DW830/W/DX100/W).
Flagship Quality in a 1-Chip DLP™ Projector

Panasonic has raised the level of its top-end 1-chip DLP™ projector even further with the new PT-DZ870 Series. It features many of the advanced functions that are found in our flagship 3-chip DLP™ projector. It also includes the Dynamic RGB Booster, which achieves stunning image quality with high levels of color reproduction and brightness, and an optical block with dust-resistant structure. These features enable a degree of color reproduction that approaches our highest level projectors, and a raised level of reliability. It satisfies professional users’ demands for higher return on investment (ROI), lower total cost of ownership (TCO), superior performance, and expanded application flexibility. Geometric adjustment, portrait projection, 3D projection, and multi-screen projection further increase flexibility in use. If you want truly creative imaging, you’ll find it in the PT-DZ870 Series.

Bright 10,000/8,500 lm from Compact Body
A unique lamp drive system has helped to make the body compact, while two newly developed, high-output, 420 W lamps provide high brightness of 10,000 lm for the PT-DX100 and 8,500 lm for the PT-DZ870/DW830.

Dynamic Iris for a High 10,000:1*1 Contrast Ratio
Panasonic’s Dynamic Iris uses a scene-linking aperture mechanism to achieve a remarkable 10,000:1*1 contrast without lowering its high brightness. This helps to reproduce deeper, richer blacks, and provides images with more detailed textures.

Vivid Picture Quality with High Brightness
The New Dynamic RGB Booster Enhances Both Brightness and Color Reproduction

Panasonic’s RGB Booster achieves high image quality with levels of color reproduction and brightness that make each color stand out. It combines Panasonic’s proprietary Vivid Color Control technology with a Lamp Modulation Drive System for a 1-chip DLP™ projector that produces bright and vivid colors. This has been further advanced in the PT-DZ870 Series with the development of the Dynamic RGB Booster. Images are analyzed frame by frame, and scene-linking and realtime modulation are used to achieve high brightness and vivid color reproduction.

- **Vivid Color Control**
  
  This technology optimizes the use of the color wheel segments. It increases the brightness of each RGB color by minimizing the unallocated portions between the colors, to produce truly vivid coloring.

- **Lamp Modulation Drive System**
  
  **Conventional system:**
  
  Because the lamp power was fixed, color reproduction was enhanced by sacrificing brightness.
  
  **Dynamic RGB Booster:**
  
  Images are analyzed frame by frame, and the lamp output is modulated to match each scene. This achieves optimal brightness and color reproduction for a wide variety of scenes.

Detail Clarity Processor 3 Gives Natural Clarity to Even the Finest Details

This unique Panasonic circuit optimizes the sharpness of each image, based on the super-high-, high-, medium-, and low-frequency components of the extracted image information. The resulting images have more natural, lifelike expression.

System Daylight View 2 for Enhanced Color Perception

This unique Panasonic technology optimizes image quality to improve the color perception of the projected image in bright rooms. With a brightness of 10,000 lm*2, it provides highly comfortable viewing even in bright lighting, and allows viewers to concentrate easily on the images.

DICOM Simulation Mode*3

This imaging mode is similar to DICOM part 14, which is a medical imaging standard. It reproduces X-ray images with remarkable clarity.

Rec. 709 Mode for HDTV Projection

Optimal color reproduction can be achieved by selecting this mode, compliant with ITU-R Recommendation BT.709, when images from an HDTV source are projected.

Waveform Monitor Function

When the output level of the source device fluctuates due to the performance of the device or its cable connections, the original black and white levels of the image content cannot be reproduced correctly. With the PT-DZ870 Series projector you can view the waveforms on the screen and adjust the settings either automatically or manually as you prefer.

Full-HD Ready WUXGA Resolution

The PT-DZ870 features native WUXGA resolution for full-HD viewing. This brings you lifelike projection of intricate, highly detailed images.

Advanced Technologies for Excellent Image Quality

- 3D color management system
- Full 10-bit image processing
- Progressive cinema scan (3:2 pulldown)
- Dynamic sharpness control
- Digital noise reduction
- IP conversion
- AI scene control
- 2:2 pulldown mode
- sRGB compatibility

---

*1 Full on/off, with dynamic iris on.
*2 For the PT-DX100/DX100L, 8,500 lm for the PT-DZ870/DZ870L and PT-DW830/DW830L.
*3 This product is not a medical instrument. Do not use it for actual medical diagnosis.
**Panasonic’s Original Dual Lamp System**
This system eliminates the interruption if a lamp should fail (in dual-lamp operation mode). The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection.

**Long Lamp Life Contributes to Low TCO**
The PT-DZ870 Series projectors lower the total cost of ownership because they have a lamp replacement cycle of up to 4,000 hours.*4

**Filter-Less Dust-Resistant Optical Engine**
- **A Heat-Pipe Cooling System Maintains Stable Operation up to 45°C**
  A new optical cooling system featuring a heat pipe block suppresses temperature rises inside the projector and allows stable operation up to an ambient temperature of 45°C (113°F).*6
- **Dust-Resistant Optical Block**
The optical block, the heart of the projector, is hermetically sealed to resist the effects of dust and other particles in the air, which makes it possible to remove the air filters for optics. It also contributes to the low TCO.
- **Easy Lamp Replacement**
  For easier maintenance, you can replace the lamp from the rear while the projector is still in the mounting bracket or dual stacked.

**Digital Link—The Single Cable Solution**
- **Transmits Digital Signals up to 100 m (328 ft) with a Single Cable**
  Equipped with a DIGITAL LINK terminal, the PT-DZ870 Series projector allows transmission of HDMI, uncompressed HD digital video, audio*1 and control signals (Ethernet, RS-232C) for up to 100 meters (328 feet) through a single CAT5e (STP) cable or higher. This simplifies cabling and system upgrades, making it ideal for ceiling-mounted and other permanent installations.
- **Optional ET-YFB100G Digital Interface Box for Easy Setup**
  Used together with the new ET-YFB100G Digital Interface Box, or other compatible equipment**, the installation of this projector is easier than ever, without any need for external receivers. The input signal can also be easily switched*9 from control panel or remote control of the projector to enable attractive presentations or lessons using multimedia content.

**Multi-Screen Support System Seamlessly Connects Multiple Screens**
- **Edge Blending**
  The edges of adjacent screens can be blended and their luminance controlled.

**System Integration Flexibility**
- **Color Matching**
  This function corrects for slight variations in the color reproduction range of individual projectors. The PC software assures easy, accurate control.
- **Multi-Screen Processor**
The PT-DZ870 Series can project large, multi-screen images without any additional equipment. Up to 100 (10 x 10) units can be edge-blended at a time.

**Multi-Unit Brightness Control**
This function automatically corrects the brightness fluctuations that occur over time in the individual projectors of a multi-screen system. Up to eight projectors can be controlled by connecting to each other via a hub, and this can be increased to a maximum of 2,048 projectors by using “Multi Projector Monitoring & Control Software Ver. 2.8.”

---

*4 With the LAMP POWER set to ECO mode in dual lamp operation, 3,000 hours with the LAMP POWER set to NORMAL mode in dual lamp operation. The usage environment affects the lamp replacement cycle. *5 The operating temperature range is 0°C to 45°C (32°F to 113°F) when used in locations from 1,400 m to 2,700 m (4,953 ft to 8,858 ft) above sea level. If the ambient temperature exceeds 35°C (95°F), the light output may be reduced to protect the projector. *6 The lamp filter must be replaced at the same time as the lamp. *7 The PT-DZ870 Series does not have an audio function. *8 Crestron’s DigitalMedia 8G+™, Extron’s XTP Systems and AMX’s Enova DVS. *9 Input selection and other ET-YFB100G interface Box, or other compatible equipment*8, used together with the new ET-YFB100G Digital Interface Box, or other compatible equipment**. *10 Art-Net is a protocol for transmitting the lighting control protocol DMX512 over Ethernet.
New Geometric Adjustment for Specially Shaped Screens (PT-DZ870)
This function adjusts the image for projection onto spherical, cylindrical and other specially shaped screens. You can make the adjustment easily using only the remote control, with no external equipment needed.

Active 3D Projection Capability
The PT-DZ870 Series is compatible with both passive and active 3D projection systems. It combines with either a separate, external 100/120/144 Hz drive with IR emitter and active shutter glasses, or an active filter and passive glasses, for viewing 3D images.

Flexible Installation
The wide adjustment range of the powered horizontal/vertical lens shift function can be easily adjusted with the remote control. The unit can also be rotated 360 degrees vertically, to accommodate various installation conditions. The lens-centered design contributes to easy installation.

Optional Upgrade Kit ET-UK20 Featuring Geometry Manager Pro (PT-DZ870)
The new Geometry Manager Pro software included in the optional upgrade kit supports Color Matching, Edge Blending, uniformity correction, and other useful functions for multi-projector set-ups (max. 32 units). It also allows creative masking using four lines or bitmap data. And its flexible and complex geometric adjustment capability suits a wide variety of screen shapes.

Multiple Terminals with HD-SDI Compatibility
The PT-DZ870 Series has an array of terminals, including 3D sync, DVI-D and HDMI terminals. The PT-DZ870 also features an SDI (SD-, HD-, and 3G-SDI) input terminal.

Web Browser Control
The PT-DZ870 Series can be easily operated remotely over a LAN network, because it is all done using the computer’s familiar web browser. Furthermore, the projector sends an e-mail message to notify the operator when an error has occurred, or a lamp needs to be replaced.

A Wide Selection of Lenses (Optional)
A wide variety of lenses add versatility and flexibility to projector installation. Long-throw zoom lenses, a short-throw lens, and an ultra-short-throw lens, in particular, make it easier to adapt your projector to the installation site compared with other brand systems. The lenses attach and detach with one-touch ease.

Other Valuable Features
- PJLink™ compatibility
- P-in-P function*13
- Mechanical lens shutter with fade in/out effect
- Scheduling function
- Direct power off
- 30 m long-range wireless remote control
- Anti-theft features with chain opening
- Control device setup function
- ID assignment for up to 64 units
- Built-in test pattern
- Selectable 10-language on-screen menu (English, German, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese, Korean)
- RoHS Directive compliant

Ecology-Conscious Design
- No halogenated flame retardants are used in the cabinet.
- Lead-free solder is used to mount components to the printed circuit boards.
- Stand-by power consumption of only 0.3 W.*14
- Auto Power Save activates standby mode when no signal is input.

All PT-DZ870 Series projectors are carefully manufactured at the Panasonic factory in Japan, under strict quality control. This is another, very important advantage of a Panasonic projector.
Featuring the superb color rendition, light weight, and excellent TCO, the PT-DZ870 Series meet the versatile needs of professionals.

### Terminals

1. Remote 1 input/output
2. Remote 2 input
3. Serial input/output
4. 3D sync 1 input/output and 3D sync 2 output
5. SDI input (PT-DZ870 only)
6. Video input
7. RGB 1 input
8. DVI-D input
9. RGB 2 input
10. HDMI input
11. LAN/DIGITAL LINK connector

### Optional Accessories

**ET-DLE030**
Fixed-focus lens

**ET-DLE250**
Zoom lens

**ET-DLE350**
Zoom lens

**ET-DLE450**
Zoom lens

**ET-DLE085**
Zoom lens

**ET-DLE150**
Zoom lens

**ET-DLE055**
Fixed-focus lens

**ET-PKD120H**
High-ceiling mount bracket

**ET-PKD120S**
Low-ceiling mount bracket

**ET-PKD130B**
Attachment for ceiling mount bracket

**ET-YFB100G**
Digital interface box

Brackets included for various installation needs, including server rack (EIA standards) mounting.

**ET-LAD120**
Replacement lamp unit (one bulb)

**ET-LAD120W**
Replacement lamp unit (one bulb)

**ET-LAD120P**
Replacement lamp unit for portrait mode (one bulb)

**ET-LAD120PW**
Replacement lamp unit for portrait mode (a set of two bulbs)

**ET-UK20**
Upgrade Kit (Geometry Manager Pro included)

### Black/white models

The cabinet for each model is available in black (PT-DZ870K/DW830K/DX100K) or white (PT-DZ870W/DW830W/DX100W).

**PT-DZ870K/DW830K/DX100K**

**PT-DZ870W/DW830W/DX100W**

The PT-DZ870LK/DZ870LW, PT-DW830LK/DW830LW, and PT-DX100LK/DX100LW are not equipped with a lens.

**PT-DZ870LK/DW830LK/DX100LK**

**PT-DZ870LW/DW830LW/DX100LW**

NOTE: Recommended when used with the ET-DLE030.

**ET-LAD120W**
Replacement lamp unit (a set of two bulbs)

**ET-LAD120PW**
Replacement lamp unit for portrait mode (a set of two bulbs)

**ET-DLE030**
Fixed-focus lens

**ET-DLE250**
Zoom lens

**ET-DLE350**
Zoom lens

**ET-DLE450**
Zoom lens

**ET-DLE085**
Zoom lens

**ET-DLE150**
Zoom lens

**ET-DLE055**
Fixed-focus lens

**ET-PKD120H**
High-ceiling mount bracket

**ET-PKD120S**
Low-ceiling mount bracket

**ET-PKD130B**
Attachment for ceiling mount bracket

**ET-YFB100G**
Digital interface box

Brackets included for various installation needs, including server rack (EIA standards) mounting.

**ET-LAD120**
Replacement lamp unit (one bulb)

**ET-LAD120W**
Replacement lamp unit (one bulb)

**ET-LAD120P**
Replacement lamp unit for portrait mode (one bulb)

**ET-LAD120PW**
Replacement lamp unit for portrait mode (a set of two bulbs)

**ET-UK20**
Upgrade Kit (Geometry Manager Pro included)

**ET-LAD120W**
Replacement lamp unit (a set of two bulbs)

**ET-LAD120PW**
Replacement lamp unit for portrait mode (a set of two bulbs)

NOTE: The ET-DLE030 will be available by July 2013.

Featuring the superb color rendition, light weight, and excellent TCO, the PT-DZ870 Series meet the versatile needs of professionals.
Specifications

Model | PT-DZ780L/PT-DW830L | PT-DX100L/PT-DX100L
--- | --- | ---
Power supply | 120~240 V AC, 10~5.2 A, 50/60 Hz | 120~240 V AC, 10~5.2 A, 50/60 Hz
Power consumption | 1,030 W (1,960 VA) (3 W when standby mode) | 1,030 W (1,960 VA) (3 W when standby mode)
Dissipation BTU | 3,516 BTU/hour for the PT-DZ780L/PT-DW830L, 3,378 BTU/hour for the PT-DX100L/PT-DX100L | 3,516 BTU/hour for the PT-DZ780L/PT-DW830L, 3,378 BTU/hour for the PT-DX100L/PT-DX100L
DLP chip | Panel size: 17.0 mm (0.67 inches) diagonal (16:10 aspect ratio) | Panel size: 16.5 mm (0.65 inches) diagonal (16:10 aspect ratio)
Display method | DLP chip x 1 | DLP chip x 1
Rays | DLP projection system | DLP projection system
Lens | PT-DZ780L/PT-DW830L/PT-DX100L | PT-DZ780L/PT-DW830L/PT-DX100L
| Powered zoom (throw ratio 1.2~1.7), powered focus | POWERED zoom (throw ratio 1.8~2.5), powered focus
Lamp | 420 W UHM lamp x 2 | 420 W UHM lamp x 2
Screen size (diagonal) | 1.27~25.4 m (50~600 in), 1.27~5.08 m (50~200 in) with the ET-DLE055, 2.54~8.49 m (100~300 in) with the ET-DLE030, 16:10 aspect ratio | 1.27~25.4 m (50~600 in), 1.27~5.08 m (50~200 in) with the ET-DLE055, 2.54~8.49 m (100~300 in) with the ET-DLE030, 4:3 aspect ratio
Brightness*1 | 8,500 lm (dual-lamp, LAMP MODE: NORMAL) | 10,000 lm (dual-lamp, LAMP MODE: NORMAL)
| Center-to-corner uniformity*2 | 90 % | 90 %
Contrast*2 | 1,080:1 (fan on/full off, in dynamic iris 3 mode) | 1,080:1 (fan on/full off, in dynamic iris 3 mode)
Resolution | 1,920 x 1,080 pixels ( inputs signals that exceed this resolution will be converted to 1,920 x 1,080 pixels.) | 1,920 x 1,080 pixels ( inputs signals that exceed this resolution will be converted to 1,920 x 1,080 pixels.)
Scanning frequency | SD 3G-SI | SD 3G-SI
| - 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p, | - 1125(1080)/60i, 1125(1080)/50i, 1125(1080)/25p,
| - YPbPr (YCBCR) | - YPbPr (YCBCR)
| HD-SI | HD-SI
| - 750(720)/50i, 750(720)/50p, 1125(1080)/60i, 1125(1080)/60p, | - 750(720)/50i, 750(720)/50p, 1125(1080)/60i, 1125(1080)/60p,
| - DVI-D IN, HDMI IN, RGB 1 IN | - DVI-D IN, HDMI IN, RGB 1 IN
| SD-SI | SD-SI
| - SMPTE 259 compliant, [YPbPr 4:2:2 10-bit] | - SMPTE 259 compliant, [YPbPr 4:2:2 10-bit]
| - 525(480)/50i, SDI 3G-SDI | - 525(480)/50i, SDI 3G-SDI
| - YPbPr (YCBCR) | - YPbPr (YCBCR)
| Video/VC | Video/VC
| - vertical ±40° * 9, horizontal ±10% powered | - vertical ±40° * 9, horizontal ±10% powered
| - vertical ±45°*7, horizontal ±45°*8 | - vertical ±45°*7, horizontal ±45°*8
Installation | Ceiling mount, front/ rear | Ceiling mount, front/ rear
Terminals | SD IN | SD IN
| - SD IN | - SD IN
| - SD IN | - SD IN
| - HDMI IN | - HDMI IN
| - HDMI 24-pin x 1 (HDMI 1.3 compatible, compatible with HDCP, compatible with single link only) | - HDMI 24-pin x 1 (HDMI 1.3 compatible, compatible with HDCP, compatible with single link only)
| - RGB 1 IN | - RGB 1 IN
| - RGB 2 IN | - RGB 2 IN
| - 3D SYNC 1 OUT/ 1 | - 3D SYNC 1 OUT/ 1
| - 3D SYNC 2 OUT | - 3D SYNC 2 OUT
| - VIDEO IN | - VIDEO IN
| - SERIAL IN | - SERIAL IN
| - SERIAL OUT | - SERIAL OUT
| - REMOTE 1 IN | - REMOTE 1 IN
| - REMOTE 2 IN | - REMOTE 2 IN
| - DIGITAL IN | - DIGITAL IN
| - LAN/ DIGITAL LINK | - LAN/ DIGITAL LINK
| | | |
| Dimensions (W x H x D) | PT-DZ780L/PT-DW830L/PT-DX100L | PT-DZ780L/PT-DW830L/PT-DX100L
| - 498 x 200**1 | 488 x 200**1
| Weight**2 | PT-DZ780L/PT-DW830L/PT-DX100L | PT-DZ780L/PT-DW830L/PT-DX100L
| | 488 x 200**1 x 253 (19~19/32 x 7~7/8 x 10 inches) | 488 x 200**1 x 253 (19~19/32 x 7~7/8 x 10 inches)
| | | (without lens)
| | | (with supplied lens)

NOTES ON USE

1. Do not install the projector in locations that are subject to excessive water, humidity, steam, or oily smoke. Doing so may result in fire, malfunction, or noise. When installing in a location with water, humidity, steam, or oily smoke, ensure that the unit is properly ventilated.
2. The projector uses a high voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a loud sound, or fail to illuminate, due to impact or extended use. Doing so may result in fire, malfunction, or electric shock. When using the KEYSTONE corrections of the Geometric Adjustment function.
3. The projector uses a high wattage lamp that becomes very hot during operation. Please observe the following precautions:
   a. Never place objects on top of the projector while it is operating.
   b. Make sure there is an unobstructed space of 500 mm (19 11/16 inches) or more around the projector for its exhaust openings.
   c. Do not stack projectors directly on top of one another for the purpose of multiple stacked projection. When stacking projectors, be sure to provide the amount of space indicated between them. These space requirements also apply to installation where only one projector unit is operating at one time and the other unit is used as a backup.
   d. If the projector is placed in a box or enclosure, the temperature of the surrounding air must not exceed 40 °C (104 °F) (35 °C (95 °F) in High Altitude mode) when the projector is being used with Lamp Saver set to Dual and Lamp Power set to High, the light output may be reduced approximately 20% to protect the projector.
4. If the projector is to be operated continuously 24 hours a day / 7 days a week, use the multi-lamp optical system’s alternating lamp operation function (Lamp Relay mode). The projector can be operated continuously 24 hours a day / 7 days a week in dual-lamp operation mode. Allow a minimum of two hours per week of non-operation time per lamp if using the dual-lamp operation mode.
5. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.
6. The length of time that takes for the lamp to break or to fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.
7. The brightness of the lamp will gradually decrease with use.
8. The image refresh rate makes the lamp replacement cycle.
9. The ET-DLH55/ET-DLH50 is fixed short-throw lens, the less function cannot be used with it.
10. Due to natural characteristics of lamps, screen brightness may vary (flicker). This is not an indication of faulty lamp performance.
### Projection Distance

#### PT-DZ870 with ET-DLE830 (16:10 aspect ratio) - unit: meters (feet)

<table>
<thead>
<tr>
<th>Projection Distance</th>
<th>Diagonal Size</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>A1</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.27</td>
<td>0.82</td>
<td>1.54</td>
<td>1.38</td>
<td>2.01</td>
<td>1.82</td>
<td>2.37</td>
<td>2.42</td>
</tr>
<tr>
<td>2.03</td>
<td>1.35</td>
<td>1.68</td>
<td>2.23</td>
<td>3.25</td>
<td>2.95</td>
<td>4.16</td>
<td>3.92</td>
</tr>
<tr>
<td>2.81</td>
<td>1.50</td>
<td>1.51</td>
<td>1.48</td>
<td>2.43</td>
<td>2.37</td>
<td>3.75</td>
<td>3.75</td>
</tr>
<tr>
<td>3.60</td>
<td>1.38</td>
<td>2.19</td>
<td>2.70</td>
<td>3.69</td>
<td>3.52</td>
<td>4.82</td>
<td>4.82</td>
</tr>
<tr>
<td>4.39</td>
<td>1.55</td>
<td>2.39</td>
<td>2.91</td>
<td>3.90</td>
<td>3.74</td>
<td>5.04</td>
<td>5.04</td>
</tr>
<tr>
<td>5.18</td>
<td>1.92</td>
<td>2.80</td>
<td>3.34</td>
<td>4.32</td>
<td>4.17</td>
<td>5.74</td>
<td>5.74</td>
</tr>
</tbody>
</table>

#### PT-DX100 with ET-DLE830 (4:3 aspect ratio) - unit: meters (feet)

<table>
<thead>
<tr>
<th>Projection Distance</th>
<th>Diagonal Size</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>A1</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.27</td>
<td>0.81</td>
<td>1.01</td>
<td>1.34</td>
<td>1.87</td>
<td>1.78</td>
<td>2.51</td>
<td>2.38</td>
</tr>
<tr>
<td>2.03</td>
<td>1.32</td>
<td>1.64</td>
<td>2.18</td>
<td>3.13</td>
<td>2.95</td>
<td>4.51</td>
<td>4.32</td>
</tr>
<tr>
<td>2.81</td>
<td>1.40</td>
<td>1.75</td>
<td>2.34</td>
<td>3.41</td>
<td>3.17</td>
<td>4.82</td>
<td>4.66</td>
</tr>
<tr>
<td>3.60</td>
<td>1.51</td>
<td>2.03</td>
<td>2.70</td>
<td>3.90</td>
<td>3.74</td>
<td>5.13</td>
<td>4.96</td>
</tr>
<tr>
<td>4.39</td>
<td>1.55</td>
<td>2.19</td>
<td>3.34</td>
<td>4.82</td>
<td>4.42</td>
<td>6.17</td>
<td>5.94</td>
</tr>
<tr>
<td>5.18</td>
<td>1.86</td>
<td>2.56</td>
<td>3.85</td>
<td>5.34</td>
<td>5.13</td>
<td>7.04</td>
<td>6.77</td>
</tr>
</tbody>
</table>

### PT-DZ870 with ET-DLE870 (16:10 aspect ratio) - unit: meters (feet)

<table>
<thead>
<tr>
<th>Projection Distance</th>
<th>Diagonal Size</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>A1</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.27</td>
<td>0.82</td>
<td>0.94</td>
<td>0.85</td>
<td>1.51</td>
<td>1.37</td>
<td>2.27</td>
<td>2.27</td>
</tr>
<tr>
<td>2.03</td>
<td>1.35</td>
<td>1.68</td>
<td>2.23</td>
<td>3.25</td>
<td>2.95</td>
<td>4.16</td>
<td>3.92</td>
</tr>
<tr>
<td>2.81</td>
<td>1.50</td>
<td>1.51</td>
<td>1.48</td>
<td>2.43</td>
<td>2.37</td>
<td>3.75</td>
<td>3.75</td>
</tr>
<tr>
<td>3.60</td>
<td>1.38</td>
<td>2.19</td>
<td>2.70</td>
<td>3.69</td>
<td>3.52</td>
<td>4.82</td>
<td>4.82</td>
</tr>
<tr>
<td>4.39</td>
<td>1.55</td>
<td>2.39</td>
<td>2.91</td>
<td>3.90</td>
<td>3.74</td>
<td>5.04</td>
<td>5.04</td>
</tr>
<tr>
<td>5.18</td>
<td>1.92</td>
<td>2.80</td>
<td>3.34</td>
<td>4.32</td>
<td>4.17</td>
<td>5.74</td>
<td>5.74</td>
</tr>
</tbody>
</table>

#### PT-DX100 with ET-DLE870 (4:3 aspect ratio) - unit: meters (feet)

<table>
<thead>
<tr>
<th>Projection Distance</th>
<th>Diagonal Size</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>A1</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.27</td>
<td>0.81</td>
<td>1.01</td>
<td>1.34</td>
<td>1.87</td>
<td>1.78</td>
<td>2.51</td>
<td>2.38</td>
</tr>
<tr>
<td>2.03</td>
<td>1.32</td>
<td>1.64</td>
<td>2.18</td>
<td>3.13</td>
<td>2.95</td>
<td>4.51</td>
<td>4.32</td>
</tr>
<tr>
<td>2.81</td>
<td>1.40</td>
<td>1.75</td>
<td>2.34</td>
<td>3.41</td>
<td>3.17</td>
<td>4.82</td>
<td>4.66</td>
</tr>
<tr>
<td>3.60</td>
<td>1.51</td>
<td>2.03</td>
<td>2.70</td>
<td>3.90</td>
<td>3.74</td>
<td>5.13</td>
<td>4.96</td>
</tr>
<tr>
<td>4.39</td>
<td>1.55</td>
<td>2.19</td>
<td>3.34</td>
<td>4.82</td>
<td>4.42</td>
<td>6.17</td>
<td>5.94</td>
</tr>
<tr>
<td>5.18</td>
<td>1.86</td>
<td>2.56</td>
<td>3.85</td>
<td>5.34</td>
<td>5.13</td>
<td>7.04</td>
<td>6.77</td>
</tr>
</tbody>
</table>

### PT-DW830 with ET-DLE830 (16:10 aspect ratio) - unit: meters (feet)

<table>
<thead>
<tr>
<th>Projection Distance</th>
<th>Diagonal Size</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>A1</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.27</td>
<td>0.82</td>
<td>1.54</td>
<td>1.38</td>
<td>2.01</td>
<td>1.82</td>
<td>2.37</td>
<td>2.42</td>
</tr>
<tr>
<td>2.03</td>
<td>1.35</td>
<td>1.68</td>
<td>2.23</td>
<td>3.25</td>
<td>2.95</td>
<td>4.16</td>
<td>3.92</td>
</tr>
<tr>
<td>2.81</td>
<td>1.50</td>
<td>1.51</td>
<td>1.48</td>
<td>2.43</td>
<td>2.37</td>
<td>3.75</td>
<td>3.75</td>
</tr>
<tr>
<td>3.60</td>
<td>1.38</td>
<td>2.19</td>
<td>2.70</td>
<td>3.69</td>
<td>3.52</td>
<td>4.82</td>
<td>4.82</td>
</tr>
<tr>
<td>4.39</td>
<td>1.55</td>
<td>2.39</td>
<td>2.91</td>
<td>3.90</td>
<td>3.74</td>
<td>5.04</td>
<td>5.04</td>
</tr>
<tr>
<td>5.18</td>
<td>1.92</td>
<td>2.80</td>
<td>3.34</td>
<td>4.32</td>
<td>4.17</td>
<td>5.74</td>
<td>5.74</td>
</tr>
</tbody>
</table>

#### PT-DX100 with ET-DLE870 (4:3 aspect ratio) - unit: meters (feet)

<table>
<thead>
<tr>
<th>Projection Distance</th>
<th>Diagonal Size</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>A1</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.27</td>
<td>0.81</td>
<td>1.01</td>
<td>1.34</td>
<td>1.87</td>
<td>1.78</td>
<td>2.51</td>
<td>2.38</td>
</tr>
<tr>
<td>2.03</td>
<td>1.32</td>
<td>1.64</td>
<td>2.18</td>
<td>3.13</td>
<td>2.95</td>
<td>4.51</td>
<td>4.32</td>
</tr>
<tr>
<td>2.81</td>
<td>1.40</td>
<td>1.75</td>
<td>2.34</td>
<td>3.41</td>
<td>3.17</td>
<td>4.82</td>
<td>4.66</td>
</tr>
<tr>
<td>3.60</td>
<td>1.51</td>
<td>2.03</td>
<td>2.70</td>
<td>3.90</td>
<td>3.74</td>
<td>5.13</td>
<td>4.96</td>
</tr>
<tr>
<td>4.39</td>
<td>1.55</td>
<td>2.19</td>
<td>3.34</td>
<td>4.82</td>
<td>4.42</td>
<td>6.17</td>
<td>5.94</td>
</tr>
<tr>
<td>5.18</td>
<td>1.86</td>
<td>2.56</td>
<td>3.85</td>
<td>5.34</td>
<td>5.13</td>
<td>7.04</td>
<td>6.77</td>
</tr>
</tbody>
</table>

### Note:
- L4 is not the distance from the projector’s rear panel to a wall, but the distance from the projector’s rear panel to the screen. Provide an adequate cooling space of 500 mm (1 foot 8 inches) or more between the rear panel of the projector and a wall or other obstruction. If installing it in an enclosed space, and a separate air conditioning or ventilation system, if ventilation is insufficient, exhaust heat may accumulate and trip the projector’s protective circuit.