Panasonic ideas for life

The 6,000-lm projector that’s easy to see even in brightly lit rooms

6,000 lm
XGA
Further expanding reliability and picture quality

Panasonic’s DLP® system projectors have taken another step forward. Now they produce even better images while maintaining all of their highly reliable functions. Their 6,000-lm brightness delivers crisp, easy-to-see images even in brightly lit classrooms and meeting rooms, to make presentations easier to understand.

High brightness and high picture quality

High-power 6,000-lm brightness

The PT-D5700U/D5700UL offer full 6,000 lumens of brightness, thanks to the newly developed AC lamp and more efficient reflectors and synthetic mirror. This enables crisp, sharp images even when projecting in a classroom, meeting room, or other location with ordinary daytime lighting.

System daylight view

The system daylight view function uses an image processing circuit to compensate for the loss of color saturation that occurs when light reflects onto the screen from bright surroundings. It is especially effective for producing crisp, sharp images in dark portions containing gradation. The function can be adjusted in three steps.
Projection of bright, high-quality images in large spaces such as halls, conference rooms, classrooms, control rooms, and churches.

**Vivid color control**
A unique control technology is used to maximize the color segment areas of the color wheel. Compared to conventional projectors, the brightness of each color is increased by an average of about 15%. This results in sharper, clearer color reproduction.

**Full 10-bit picture processing**
The use of a full 10-bit image processing system provides smooth tonal expression. For example, skin tones appear natural and true to life.

**Progressive cinema scan (3/2 Pulldown)**
This interlace/progressive conversion technology 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.

**New IP conversion circuit**
The PT-D5700U/D5700UL feature a new IP conversion circuit that produces more detailed images than our previous models.

**3D color management system**
Compensation provides optimal levels of color saturation, hue, and brightness that were not possible with conventional projectors. Colors approach those of the original image, even on large-screen displays.

**More effective noise reduction**
Images are noticeably clearer, thanks to higher-performance frame noise reduction, which lowers image graininess, and improved MPEG noise reduction, which suppresses the block noise and mosquito noise that are common in fast-action scenes.

**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.
Excellent reliability

Dual lamp system
The use of two lamp systems increases brightness and eliminates the need to interrupt a presentation if a lamp burns out (in dual lamp operation mode).

Flexible system installation

Built-in multi-screen support system

Horizontal/Vertical lens shift
A wide adjustment range of the horizontal/vertical lens shift assures distortion-free images and adds convenience and versatility. (Horizontal: manual, Vertical: powered)

Web browser control/monitoring and e-mail message alert
Anybody can operate the PT-D5700U/D5700UL by remote control or monitor its status over a LAN network, because it is all done using the computer’s familiar Web browser. Furthermore, the PT-D5700U/D5700UL sends an E-mail message to notify the operator when an error has occurred, or a lamp needs to be replaced.

Optional lenses for various venues
Five 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.

Multiple terminals
The PT-D5700U/D5700UL has an array of terminals—two RGB inputs including a 5-BNC connector, serial in/out, one S-video inputs, two remote in, one remote out, DVI-D and control capability—to support a broad range of projection needs HDCP. (High-Bandwidth Digital Content Protection) compliant. Using the serial terminal(RS232C), it is also possible to connect and operate AMX and Crestron control systems with ease.

**Edge blending function**
This function controls luminance at the edges where screens overlap. By eliminating unnatural screen joints, it produces uniformly attractive multi-screen displays.

**Color matching function**
The Color Matching function corrects the subtle variations in color reproduction between projectors. Originally developed “adjustment assist” software quickly and precisely optimizes images, so the colors on each screen are uniformly reproduced.

**Digital image enlarging**
Images are enlarged up to 10 times (horizontally and vertically) without having to use any additional devices.

**Lens-centered design**
A lens-centered, symmetrical design provides flexible system layout, eliminating the need for any special considerations when planning the installation site.
AC lamp

Newly developed AC lamps with full 300 watts of power offer excellent brightness and greater reliability than other types. A new lamp drive system also lowers the stress on the lamp electrodes while the lamps are lit. The new lamps have a lifetime of approximately 3,000 hours*, which is reassuring for applications where the projector is frequently used. The AC lamps also minimize color irregularities.

*with lamp mode: low

Liquid-cooling system

Panasonic’s original liquid-cooling system directly cools the DLP® chip, which extends PT-D5700U/D5700UL performance and attains a high level of reliability. It also enables operation in temperatures up to 113˚F/45˚C for use in a wider variety of environments, and maintains a more stable performance even in harsh conditions while keeping the operating sound down to a quiet 29 dB*.

*with lamp mode: low

Dustproof design with sealed optical block

The effect of dust has been minimized by completely sealing the optical block. The dust-free design helps ensure that this DLP® projector will continue to deliver crisp, sharp, high-resolution images over an extended service life.

PJLink™ compatibility

The LAN terminals support PJLink™ class 1 connection. Control with the same specifications is also possible when used in a multi-projector system with projectors of another brand.

Mechanical lens shutter

A mechanical lens shutter minimizes annoying light leakage when the PT-D5700U/D5700UL is on standby or temporarily not in use, such as during a meeting.

Direct power off

Built-in capacitor provides power to cool the internal parts. This means that you can switch off the room’s main power as soon as the presentation ends. PT-D5700U/D5700UL doesn’t make you wait around and helps minimize lamp damage.

Easy lens replacement

The PT-D5700U/D5700UL uses the bayonet system, so lenses attach and detach with one-touch ease.

Easy replacement of dust filter and lamp

Dust filter is replaced from the side and lamps are replaced from the back panel. Both of them are replaced very easily even when PT-D5700U/D5700UL is installed.

Flexible angle setting

The PT-D5700U/D5700UL can be rotated vertically. This means you can install it at any up- and-downangle you wish to accommodate different installation conditions.

Ecology-conscious design

Panasonic works from every angle to minimize environmental impact in the product design, production and delivery processes, and in the performance of the product during its life cycle. The PT-D5700U/D5700UL reflects the following ecological considerations.

- No halogenated flame retardants are used in the cabinet.
- The packing case and operating manual are made from recycled paper.
- Lamp power switching further reduces power consumption.
- Auto Power Save activates standby mode when no signal is input.
## Specifications

- **System**: DLP® Projection system
- **Device**: 0.7" (diagonal) DLP® chip 4:3
- **Pixels**: 786,432 (1,024 x 768) x 1 total of 786,432 pixels
- **Lamp**: 300 W UHM™ lamp x 2 (Dual Lamp System)
- **Brightness (normal lamp)**: 6,000 lumens (dual lamp, high power mode)
- **Contrast ratio**: 2,000:1 (full on/full off, contrast mode: high)
- **Resolution**: 1,024 x 768 pixels
- **Video**: 560 TV lines
- **Lens**: PT-D5700U
  - Powered zoom/zoom lens, Supplied lenses: (1.8-2.4:1)
  - Optional powered zoom/zoom lenses

### Component signal

- **RGB1/YPBPR IN**: 786,432 pixels
- **RGB2 IN**: 786,432 pixels
- **RGB2 OUT**: 786,432 pixels
- **REMOTE 1 IN**: M3 jack
- **REMOTE 1 OUT**: M3 jack
- **REMOTE 2 IN**: D-sub 9-pin female
- **REMOTE 2 OUT**: D-sub 9-pin female (parallel)
- **LAN**: RJ-45x1, compliant with PJ Link™ (class 1), 10Base-T/100Base-TX

### Projection distance

<table>
<thead>
<tr>
<th>S-i, L (9:4)</th>
<th>With ET-DLE050</th>
<th>With ET-DLE050</th>
<th>With ET-DLE050</th>
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<tbody>
<tr>
<td>50°</td>
<td>2.4 6.7m</td>
<td>2.3 5.9m</td>
<td>2.2 5.2m</td>
<td>2.1 4.5m</td>
<td>2.0 3.9m</td>
<td>1.8 3.2m</td>
</tr>
<tr>
<td>60°</td>
<td>3.3 8.7m</td>
<td>3.2 7.9m</td>
<td>3.1 7.1m</td>
<td>3.0 6.4m</td>
<td>2.9 5.6m</td>
<td>2.7 4.8m</td>
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<tr>
<td>100°</td>
<td>5.3 16.6m</td>
<td>5.1 15.5m</td>
<td>5.0 14.5m</td>
<td>4.9 13.5m</td>
<td>4.8 12.5m</td>
<td>4.6 11.5m</td>
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<tr>
<td>150°</td>
<td>8.0 24.8m</td>
<td>7.7 23.6m</td>
<td>7.5 22.4m</td>
<td>7.3 21.2m</td>
<td>7.1 20.0m</td>
<td>6.9 18.8m</td>
</tr>
<tr>
<td>200°</td>
<td>10.7 33.0m</td>
<td>10.4 31.8m</td>
<td>10.1 30.6m</td>
<td>9.9 29.4m</td>
<td>9.6 28.2m</td>
<td>9.4 27.0m</td>
</tr>
<tr>
<td>300°</td>
<td>16.0 49.3m</td>
<td>15.7 48.1m</td>
<td>15.4 46.9m</td>
<td>15.1 45.7m</td>
<td>14.8 44.5m</td>
<td>14.5 43.3m</td>
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<tr>
<td>500°</td>
<td>24.1 73.3m</td>
<td>23.8 72.1m</td>
<td>23.5 70.9m</td>
<td>23.2 69.7m</td>
<td>22.9 68.5m</td>
<td>22.6 67.3m</td>
</tr>
<tr>
<td>600°</td>
<td>33.4 89.5m</td>
<td>33.1 88.3m</td>
<td>32.8 87.1m</td>
<td>32.5 85.9m</td>
<td>32.2 84.7m</td>
<td>31.9 83.5m</td>
</tr>
</tbody>
</table>

### Dimensions

- **Unit**: inch [mm]
- **PT-D5700U**: 22.2m (5.5m)
- **PT-D5700UL**: 22.9m (5.7m)

### Optional accessories

- **Replacement Lamp Unit**: ET-LAD500, ET-LAD527W (with lamp)
- **Ceiling Mount Bracket for high ceiling**: PT-PD525MX
- **Ceiling Mount Bracket for low ceiling**: PT-PD525S

### Notes on Use

**Notes on Projector Placement and Operation:**

1. **1. Never place objects on top of the projector while it is operating.**
2. **2. Make sure there is an unobstructed space of 500 mm or more around the projector's exhaust openings.**
3. **3. Do not stack projector units directly on top of one another. If two units must be stacked for use in ordinary projection, use a method as shown below and provide ample space between the units to ensure that exhaust heat does not accumulate near the intake opening or around the units. Double stacked projection of the PT-D5700U/D5700UL is not recommended.**
4. **4. If the projector is placed in a box or enclosure, ensure the temperature of the air surrounding the projector is between 0°C/32°F and 40°C/104°F. Also make sure the projector’s intake and exhaust openings are not blocked. Take particular care to ensure that hot air from the exhaust openings is not sucked into the intake opening.**

**Operating the Projector Continuously:**

1. **1. If the projector is to be operated continuously 24 hours a day, use the dual-lamp optical system's alternating lamp operation (lamp changer) function. The projector cannot be operated continuously 24 hours a day in dual-lamp mode. Allow a minimum of two hours per day of non-operation time per day if using the dual-lamp mode.**
2. **2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.**
3. **3. The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use.**
4. **4. When the ambient temperature near the intake opening is 60°C/140°F or lower, an accumulation of hot air inside the cabinet may cause the protective circuit to activate and shut down the projector. Please give ample consideration to the design with regard to ambient temperature conditions.**

**Panasonic**

Panasonic Projector Systems Company.
Unit of Panasonic Corporation of North America

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For more information about Panasonic projectors, visit —
http://www.panasonic.co.jp/pavc/global/projector/

Please contact Panasonic or your dealer for a demonstration.