Panasonic ideas for life

PT-DW5100U
PT-DW5100UL
DLP®-Based Projector

The 5,500-lm wide projector that's easy to see even in brightly lit rooms

5,500 lm
WXGA
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 5,500-lm brightness delivers crisp, easy-to-see images even in brightly lit classrooms and meeting rooms, to make presentations easier to understand. The PT-DW5100U/DW5100UL can also project wide-screen images. This allows them to project images onto a large area regardless of the ceiling height.

**New**

**High power brightness**

5,500 lm

**Wide screen and high-power 5,500-lm brightness**

The PT-DW5100U/DW5100UL projectors deliver a full 5,500 lumens of brightness and WXGA wide-screen projection. A newly developed AC lamp and a more efficient reflector and synthetic mirror produce crisp, sharp images even when projecting images with a wide aspect ratio in 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 and the screen. Even during bright daylight, this function is 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, theaters, and churches.

**Conferences rooms**

**Classrooms**

**Theaters**

**Churches**

- More effective noise reduction
- Dynamic sharpness control
- Vivid color control
- Full 10-bit picture processing
- New IP conversion circuit
- Full 10-bit picture processing
- New IP conversion circuit
- 3D color management system
- Dynamic sharpness control

**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.

**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.

**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.

**New IP conversion circuit**
The PT-DW5100U/DW5100UL 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.

**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
  - 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
- Lens-centered design
- Optional lenses for various venues
- Multiple terminals
- Web browser control/monitoring and e-mail message alert

- 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.

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

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

- 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.

- The PT-DW5100U/DW5100UL has an array of terminals (RGB inputs including a 5-BNC connector, serial in/out, S-video inputs, remote in, remote out, DVI-D, 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.

- Built-in multi-screen support system

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

- Anybody can operate the PT-DW5100U/DW5100UL 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-DW5100U/DW5100UL sends an e-mail message to notify the operator when an error has occurred, or a lamp needs to be replaced.
### Micro cut filter

A filter in the air intake section traps dust particles that are 10 microns or larger. By capturing approximately 7 times as much dust as conventional filters, it guards against optical blockages and reduces the penetration of dust into the interior to provide stable operation by, for example, preventing drops in brightness.

*10-micron dust = lint, pollen, etc.

### Liquid-cooling system

Panasonic’s original liquid-cooling system directly cools the DLP® chip, which extends PT-DW5100U/DW5100UL 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.

### 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

### Easy replacement of dust filter and lamp

Dust filters are replaced from the side and lamps are replaced from the back panel. Both of them are replaced very easily even when PT-DW5100U/DW5100UL is installed.

### Flexible angle setting

The PT-DW5100U/DW5100UL can be rotated vertically. This means you can install it at any up-and-down angle 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-DW5100U/DW5100UL 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.

### Other valuable features

- **PJLink™ compatibility**: PJLink™ compatibility supports PJLink class 1 connection. Control with the same specifications is also possible when used in a multi-projector system with projectors of another brand.

### Control panel and wireless remote control

The rear control panel allows for easy operation when the PT-DW5100U/DW5100UL is set on a desk or floor. New wireless remote control with longer transmission capacity of 98 feet (30 m).

### Easy lens replacement

Flexible lens replacement...
**Specifications**

- **System**: DLP® Projection system
- **Device**: 0.65" (diagonal) DLP® chip 15.9
- **Pixels**: 983,040 (1,280 x 768) x 2 total of 983,040 pixels
- **Lamp**: 300 W UHM™ lamp (2 Lamp System)
- **Brightness (normal lamp)**: 5,500 lumens (dual lamp, high mode power)
- **Contrast ratio**: 2,000:1 (full on/full off, contrast mode: high)
- **Resolution**: 1,280 x 768 pixels
- **Video**: 560 TV lines
- **Lens**: PT-DW5100U (Supplied zoom/focus lens)
  - **Supplied accessories**: Operating instructions, Power cord, Wireless/wired remote control unit, 32-113 ˚F (0-45 ˚C) Dimensions: 20 13/16' x 6-9/16' x 16-7/8' (530 x 167 x 429 mm) (without lens) 6 9/16 (167) min.
- **Horizontal**: 16:9 (400.34 x 225.34 mm) (without lens)
- **Keystone correction range**: Vertical (powered), horizontal (manual)
- **Optional accessories**: ET-LAD57, ET-LADV57 (twin pack)
- **Supplied accessories**: Front/rear ceiling/floor (Zoom Lens (1.4-2.0:1))

**Dimensions**

**Lamp**

- **Diameter**: 8.8 (3.3) inches
- **Depth**: 7.1 (2.8) inches
- **Height**: 5.8 (2.3) inches

**Remote Control Unit**

- **Diameter**: 3.5 (1.4) inches
- **Depth**: 2.7 (1.1) inches
- **Height**: 2.05 (0.81) inches

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**Projection distance**

<table>
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<th>Screen size (W x H)</th>
<th>50°</th>
<th>60°</th>
<th>70°</th>
<th>80°</th>
<th>90°</th>
<th>100°</th>
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<tbody>
<tr>
<td>1.1 x 0.9 m</td>
<td>2.8</td>
<td>4.3</td>
<td>6.4</td>
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<td>4.6</td>
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<tr>
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<tr>
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<td>1.7</td>
<td>2.5</td>
<td>3.8</td>
<td>5.5</td>
<td>8.4</td>
</tr>
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**NOTES ON USE**

- **Driving in and out of the vehicle**: Before turning on the projector, make sure that all doors and windows are closed and that the air conditioning or heating system is turned off to prevent condensation from forming on the lens or other parts of the projector.

**For more information about Panasonic projectors, visit**

http://panasonic.co.jp/pavc/global/projector/

Please contact Panasonic or your dealer for a demonstration.