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

**High power brightness**

5,500 lm

**DLP® Projector**

PT-DW5100U

PT-DW5100UL*

*Without lens model

### High brightness and high picture quality

#### Wide screen and high-power

5,500-lm brightness

The PT-DW5100U/DW5100UL offers a full 5,500 lumens of brightness and WXGA wide-screen projection. A newly developed AC lamp, a more efficient reflector and a 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 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, theaters, 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.

- **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.

- **New IP conversion circuit**
  The PT-DW5100U/DW5100UL features a new IP conversion circuit that produces more detailed images than our previous models.

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- **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 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

• 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.

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)

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.

Web browser control/monitoring and e-mail message alert
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.

Multiple terminals
The PT-DW5100U/DW5100UL 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.
AC lamp
Newly developed AC lamps with full 275 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 newly developed AC 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.

* The indicated figure is the maximum value when two lamps are used in Lamp Low mode, with operating cycles of 3.5 hours ON and 6.5 hours OFF. If the frequency of operation increases, the lamp replacement cycle will become shorter. (It is recommended that the mechanical shutter be used to turn images off for a short period.)

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

Dust-resistant optical block
The dust-resistant design of the optical block helps ensure that projectors with DLP® technology will continue to deliver crisp, sharp, high resolution images over an extended service life.

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- AC lamps have a lifetime of approximately 3,000 hours.

Liquid-cooling system
- Panasonic’s original liquid-cooling system directly cools the DLP® chip.
- It extends performance and attains high reliability.
- Enables operation in temperatures up to 113 °F/45 °C.
- Maintains stable performance with low operating sound.

Dust-resistant optical block
- The dust-resistant design helps projectors with DLP® technology deliver high resolution images.

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.

Multi projector monitoring & control software
Panasonic’s original “Multi Projector Monitoring & Control Software” freeware allows the user to control and monitor multiple projectors via LAN. When a problem occurs, an alarm message is sent to the controlling/monitoring PC.

Easy lens replacement
The PT-DW5100UL uses the bayonet system, so lenses attach and detach with one-touch ease.

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 lifetime. The PT-DW5100U/DW5100UL reflects the following ecological considerations.
- No halogenated flame retardants are used in the cabinet.
- Lamp power switching further reduces power consumption.
- Auto Power Save activates standby mode when no signal is input.

Others
- ID assignment for up to 65 units
- Coordinated group control for up to 26 groups (A-Z)
- Digital vertical keystone correction
- Built-in test pattern
- Selectable 9-language on-screen menu (English, German, French, Spanish, Italian, Russian, Japanese, Chinese, Korean)
- Anti-theft features with chain opening

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-DW5100U/DW5100UL is installed.

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Specifications

System
- DLp® Projection system
Device
- 0.65" (diagonal) DLp® chip 15:19
Pixels
- 983,040 (2,280 x 768) x 1 total of 983,040 pixels
Lamp
- 275 W UHM lamp x 2 (Dual Lamp System)
Brightness (normal lamp)\(^1\)
- 5,800 lumens (dual lamp, high power mode)
Contrast ratio\(^1\)
- 2,000:1 (full on/full off, contrast mode: high)
Resolution
- 1,280 x 768 pixels

Lens
- PT-DW5100U: Powerful zoom/focus lens, supplied lens (1.8-2.4:1) with 1,280 x 768 pixels
- PT-DW5100UL: Optional powered zoom/focus lenses

Screen size
- 50 - 600 inches
Lens shift
- Vertical: ±60% (powered), ±10% (manual)
RGB input scanning frequency
- 51 Hz - 108 Hz
Component signal
- 480i, 576i, 576p, 720i/50p, 720p/50p, 1080i/50i, 1080i/50p, 1080p/50p
Video signal
- NTSC, NTSC4.43, PAL, PAL-D, PAL-M, PAL-N, SECAM

Terminals
- VIDEO IN: BNC
- S-VIDEO IN: Mini Din 4-pin
- RGB/YPbPr IN: BNC x 5
- RGB2 IN: D-sub HD 15-pin
- DW-D IN: 24-pin DW 1.0 compliant, HDCP compatible, for single link
- RS-232C IN: D-sub 9-pin female
- RS-232C OUT: D-sub 9-pin male
- REMOTE IN 1: M3 jack
- REMOTE OUT 1: M3 jack
- REMOTE 2 IN: D-sub 9-pin female (parallel)
- LAN: RJ-45x1, compliant with PJ Link™ (class 1), 10Base-T/100Base-TX

Keystone correction range\(^2\)
- ±30° (with standard lens)
Installation
- Front/rear, ceiling/floor
Power cord length
- 9.0 m (30 ft)
Power supply
- 120 V AC, 60 Hz
Power consumption
- 770 W (770 VA) (10 W during standby mode with fan stopped)
Dimensions (W x H x D)
- 20-7/8" x 6-9/16" x 16-7/8" (530 x 167 x 429 mm) (without lens)
Weight\(^2\)
- PT-DW5100U: Approx. 30.6 lbs (13.9 kg) with supplied lens
- PT-DW5100UL: Approx. 28.9 lbs (13.2 kg) without lens

Optional accessories

Replacement Lamp Unit
- ET-LAD57
- ET-LAD57W (twin pack)

Ceiling Mount Bracket for low ceiling
- ET-PKD55

Zoom Lens (1.4:1.8)
- ET-DLE100
- Zoom Lens (5.4:1.1)
- ET-DLE200

Lens (3.7:4.1)
- ET-DLE310

Zoom Lens (4.7:8.9:1)
- ET-DL410

Fixed Focus Lens (0.8:1)
- ET-DL405

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 electric shock.
2. 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.
3. The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.
   • Never place objects on top of the projector while it is operating.
   • Make sure there is an unobstructed space of 500 mm or more around the projector’s exhaust openings.
   • Do not stack projector units directly on top of another for the purpose of multiple (stacked) projection. When stacking projector units, 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.
   • If the projector is placed in a box or enclosure, temperature of the air surrounding the projector must be between 0 °C and 35 °C. 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 openings.
   • Even when the ambient temperature near the intake opening is 40 °C/104 °F lower, for 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.
4. 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.
5. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.
6. The length of time that the lamp is to break or 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. Please clean the filter regularly. As for details, please refer to the operation manual.

Panasonic
Unit of Panasonic Corporation of North America
www.panasonic.com/projectors

For more information about Panasonic projector —
http://panasonic.net/avc/projector
Please contact Panasonic or your dealer for a demonstration.

Weights and dimensions shown are approximate. Specifications are subject to change without notice.

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