Panasonic

ideas for life

PT-DW5100E
PT-DW5100EL

DLP™ -Based Projector

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

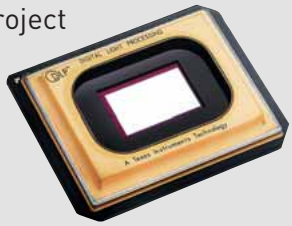
5,500lm

WXGA

PICTURE BY DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

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 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-DW5100E/DW5100EL 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-**DW5100E**
PT-**DW5100EL***
*Without lens model

High brightness and high picture quality

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

The PT-DW5100E/DW5100EL 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

NEW

The system daylight view function uses an image processing circuit to compensate for the loss of colour 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, theatres, and churches.

Vivid colour control

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

Full 10-bit picture processing NEW

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 NEW

The PT-DW5100E/DW5100EL features a new IP conversion circuit that produces more detailed images than our previous models.

More effective noise reduction NEW

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.

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 colour management system

Compensation provides optimal levels of colour saturation, hue, and brightness that were not possible with conventional projectors. Colours approach those of the original image, even on large-screen displays.

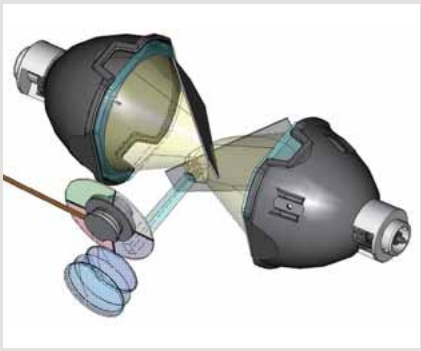
Dynamic sharpness control

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

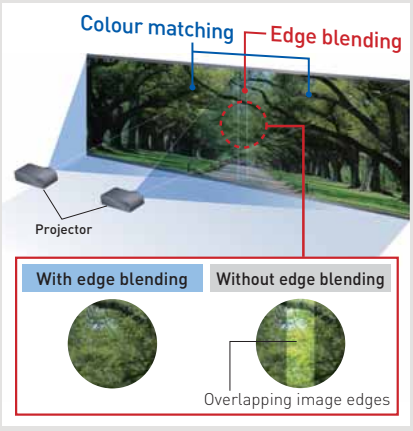
The use of two lamp system increases brightness and eliminates the need to interrupt a presentation if a lamp burns out (in dual lamp operation mode).



Flexible system installation

Built-in multi-screen support system

NEW



•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.

•Colour matching function
The Colour Matching function corrects the subtle variations in colour reproduction between projectors. Originally developed "adjustment assist" software quickly and precisely optimises images, so the colours on each screen are uniformly reproduced.

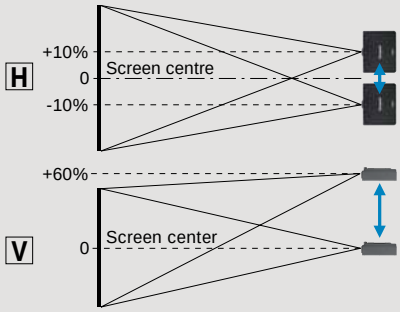
•Digital image enlarging
Images are enlarged up to 10 times (horizontally and vertically) without having to use any additional devices.

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)

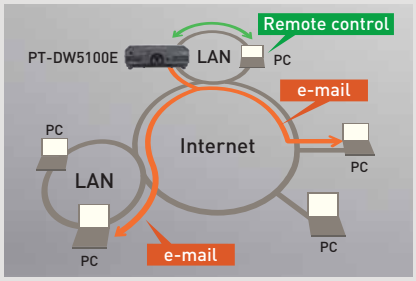


Optional lenses for various venues

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-DW5100E/ DW5100EL 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-DW5100E/ DW5100EL 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-DW5100E/DW5100EL 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

NEW

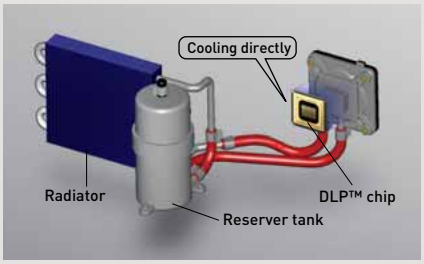
Newly developed AC lamps with full 275 watts of power offer excellent brightness and greater reliability than other types. A new lamp drive system also lowers the stress on the lamp electrodes while the lamps are lit. The new lamps have a lifetime of approximately 3,000 hours*, which is reassuring for applications where the projector is frequently used. The AC lamps also minimise colour 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 0.5 hour 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-DW5100E/DW5100EL performance and attains a high level of reliability. It also enables operation in temperatures up to 45˚C/113 ˚F 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



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 blocks 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.

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.

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

NEW

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.

* Available in June 2008. Please consult a sales representative if necessary.

Easy lens replacement

The PT-DW5100E/DW5100EL uses the bayonet system, so lenses attach and detach with one-touch ease.

Control panel and wireless remote control

NEW

The rear control panel allows for easy operation when the PT-DW5100E/ DW5100EL is set on a desk or floor. New wireless remote control with longer transmission capacity of 30 m.

Other valuable features

Mechanical lens shutter

A mechanical lens shutter minimises annoying light leakage when the PT-DW5100E/ DW5100EL 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-DW5100E/DW5100EL doesn't make you wait around and helps minimise lamp damage.

Flexible angle setting

The PT-DW5100E/ DW5100EL can be rotated vertically. This means you can install it at any up-and-downangle you wish to accommodate different installation conditions.

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-DW5100E/DW5100EL is installed.

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**

The PT-DW5100EL delivers the same performance as the PT-DW5100E, but comes without lens. Combine it with an optional lens to get the exact performance you need according to usage and operating conditions.

Ecology-conscious design

Panasonic works from every angle to minimise environmental impact in the product design, production and delivery processes, and in the performance of the product during its life cycle. The PT-DW5100E/DW5100EL 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.

Specifications

System	DLP™ Projection system
Device	0.65" (diagonal) DLP™ chip 15:9
Pixels	983,040 (1,280 x 768) x 1 total of 983,040 pixels
Lamp	275 W UHM lamp x 2 (Dual Lamp System)
Brightness (normal lamp)*1	5,500 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-DW5100E	Powered zoom/focus lens, Supplied lens: (1.8-2.4:1) F = 1.7-2.0, f = 25.6-33.8 mm
PT-DW5100EL	Optional powered zoom/focus lenses
Screen size	50 - 600 inches
Lens shift	Vertical: ±60% (powered), Horizontal: ±10% (manual)
RGB input scanning frequency	f_H 15-91 kHz, fv 50-85 Hz Dot clock 150 MHz or lower
Component signal	480i, 480p, 576i, 576p, 720/60p, 720/50p, 1080/60i, 1080/60p 1080/50i, 1080/50p
Video signal	NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM
Terminals	
VIDEO IN	BNC
S-VIDEO IN	Mini DIN 4-pin
RGB1/$Y_PB_PP_R$ IN	BNC x 5
RGB2 IN	D-sub HD 15-pin
DVI-D IN	24pin DVI 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 1 IN	M3 jack
REMOTE 1 OUT	M3 jack
REMOTE 2 IN	D-sub 9-pin female (parallel)
LAN	RJ-45x1, compliant with PJLink™ (class 1), 10Base-T/100Base-TX
Keystone correction range	±30° (with standard lens)
Installation	Front/rear, ceiling/floor
Power cord length	3.0m (9.9')
Power supply	220-240 V AC, 50 / 60 Hz
Power consumption	750 W (790 VA) (15 W during standby mode with fan stopped)
Dimensions (W x H x D)	530 x 167 x 429 mm (20-7/8' x 6-9/16' x 16-7/8') (without lens)
Weight*2	
PT-DW5100E	Approx. 13.9 kg (30.6 lbs) with supplied lens
PT-DW5100EL	Approx. 13.1 kg (28.9 lbs) without lens
Operating temperature	0 -45 °C (32 -113 °F)
Operating humidity	20-80% (no condensation)
Supplied accessories	Power cord, Wireless/wired remote control unit, AA Batteries (x 2) for remote control, Wire rope

*1: Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
*2 Average value. May differ depending on models.

Projection distance

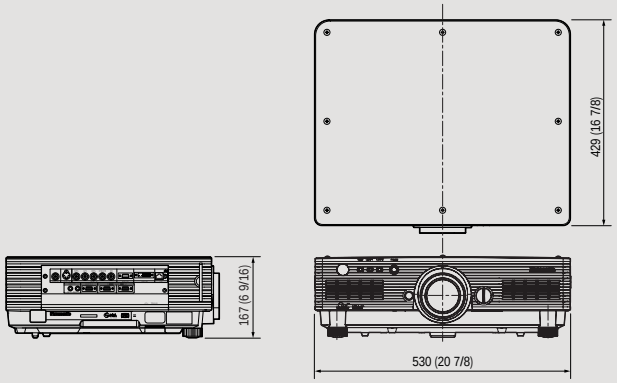
Screen size (15:9) — Throw distance

Diagonal image size	With ET-DLE100 1.4-1.8:1 min.	With ET-DLE100 1.4-1.8:1 max.	With supplied lens* 1.8-2.4:1 min.	With supplied lens* 1.8-2.4:1 max.	With ET-DLE200 2.5-4.1:1 min.	With ET-DLE200 2.5-4.1:1 max.	With ET-DLE310 3.5-4.7:1 min.	With ET-DLE310 3.5-4.7:1 max.	With ET-DLE410 4.7-8.9:1 min.	With ET-DLE410 4.7-8.9:1 max.	With ET-DLE050 0.8:1 L
50"	1,455mm 4.8'	1,972mm 6.5'	1,945mm 6.4'	2,586mm 8.6'	2,669mm 8.9'	4,339mm 14.6'	3,824mm 12.7'	5,024mm 16.7'	5,083mm 16.9'	9,620mm 32.0'	864mm 2.8'
80"	2,355mm 7.8'	3,184mm 10.6'	3,151mm 10.5'	4,176mm 13.9'	4,310mm 14.3'	7,084mm 23.6'	6,182mm 20.6'	8,102mm 27.0'	8,215mm 27.3'	15,473mm 51.5'	1,404mm 4.6'
100"	2,955mm 9.8'	3,992mm 13.3'	3,955mm 13.2'	5,236mm 17.4'	5,404mm 18.0'	8,874mm 29.6'	7,754mm 25.8'	10,154mm 33.8'	10,303mm 34.3'	19,375mm 64.6'	1,764mm 5.8'
150"	4,455mm 14.8'	6,012mm 20.0'	5,965mm 19.9'	7,886mm 26.3'	8,139mm 27.1'	13,349mm 44.5'	11,684mm 38.9'	15,284mm 50.9'	15,523mm 51.7'	29,130mm 97.1'	2,664mm 8.8'
200"	5,955mm 19.8'	8,032mm 26.8'	7,975mm 26.6'	10,536mm 35.1'	10,874mm 36.2'	17,824mm 59.4'	15,614mm 52.0'	20,414mm 68.0'	20,743mm 69.1'	38,885mm 129.6'	3,564mm 11.8'
300"	8,955mm 29.8'	12,072mm 40.2'	11,995mm 40.0'	15,836mm 52.8'	16,344mm 54.4'	26,774mm 89.3'	23,474mm 78.2'	30,674mm 102.2'	31,183mm 103.9'	58,395mm 194.6'	— —
400"	11,955mm 39.8'	16,112mm 53.7'	16,015mm 53.4'	21,136mm 70.5'	21,814mm 72.7'	35,724mm 119.1'	31,334mm 104.4'	40,934mm 136.5'	41,623mm 138.7'	77,905mm 259.7'	— —
500"	14,955mm 49.8'	20,152mm 67.2'	20,035mm 66.8'	26,436mm 88.1'	27,284mm 90.9'	44,674mm 148.9'	39,194mm 130.6'	51,194mm 170.7'	52,063mm 173.5'	97,415mm 324.7'	— —
600"	17,955mm 59.8'	24,192mm 80.7'	24,055mm 80.2'	31,736mm 105.8'	32,754mm 109.2'	53,624mm 178.8'	47,054mm 156.8'	61,454mm 204.9'	62,503mm 208.3'	116,925mm 389.8'	— —

* The supplied lens is used only for PT-DW5100E.

Dimensions

unit: mm [inch]



Optional accessories

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

Zoom Lens (1.4-1.8:1)
ET-DLE100
Zoom Lens (2.5-4.1:1)
ET-DLE200
Zoom Lens (3.5-4.7:1)
ET-DLE310
Zoom Lens (4.7-8.9:1)
ET-DLE410
Fixed Focus Lens (0.8:1)
ET-DLE050

Ceiling Mount Bracket
for high ceiling
ET-PKD56H

Ceiling Mount Bracket
for low ceiling
ET-PKD55S

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 of 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 operation.
   - 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 one 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 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.
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 the using the dual-lamp mode.
5. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.
   - The length of time that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.
   - The brightness of the lamp will gradually decrease with use.
6. Please clean the filter regularly. As for details, please refer to the operation manual.

Panasonic

For more information about Panasonic projectors. Visit —
http://panasonic.net/avc/projector

Please contact Panasonic or your dealer for a demonstration.

JQA-1617

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