

# Panasonic

ideas for life

PT-DW6300ES  
PT-DW6300ELS  
PT-D6000ES  
PT-D6000ELS

DLP™ Based Projector

Brilliant pictures for effective  
visual communication



PT-DW6300ES  
PT-DW6300ELS

**WXGA**

**6,000 lm**

PT-D6000ES  
PT-D6000ELS

**XGA**

**6,500 lm**



# A New Standard for 1-chip DLP™ Projectors

## Refined Image Quality with Reliability and Easy Maintenance

Panasonic 1-chip DLP™ projectors are brighter and better than ever with a compilation of numerous Panasonic proprietary technologies. The wide-aspect PT-DW6300ES/DW6300ELS\* with a brightness of 6,000 lumens, and PT-D6000ES/D6000ELS\* with a brightness of 6500 lumens produce vivid colourful images with the aid of the newly engineered RGB Booster. The Dual-Lamp System makes sure that presentations aren't interrupted even if a lamp suddenly burns out. This is joined by the Auto Cleaning Filter, which makes filter cleaning unnecessary for approximately 10,000 hours, for high reliability. Both models offer easy and flexible system configuration.

PT-DW6300ES  
PT-DW6300ELS\*

<b>WXGA</b>
<b>6,000 lm</b>



PT-D6000ES  
PT-D6000ELS\*

<b>XGA</b>
<b>6,500 lm</b>



\*The PT-DW6300ELS and PT-D6000ELS are sold without lenses.  
The specifications are the same as those of the PT-DW6300ES and PT-D6000ES.

## Vivid Picture Quality with High Brightness

### RGB Booster Significantly Improves Colour Reproduction

The RGB Booster achieves high image quality with levels of colour reproduction (up to 145% that of conventional models) and brightness that make each colour stand out. It combines Panasonic's proprietary Vivid Colour Control technology with a newly engineered Lamp Modulation Drive System for a 1-chip DLP™ projector that produces bright and vivid colours.

#### ■ Vivid Colour Control

This unique control technology optimises the use of the colour segment areas of the colour wheel. It increases the brightness of each RGB colour by minimising the unallocated portions between the colours, to achieve truly vivid colouring.

#### ■ Lamp Modulation Drive System

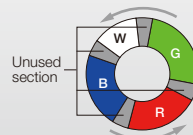
With the new lamp modulation technology, the projector is now able to control the lamp intensity for each of the red, green, blue, and white segments of the colour wheel separately. Because the actual light output is controlled in relation to each colour segment, light usage is optimised and colour balance is obtained without lowering the brightness. This results in bright vivid images with increased colour fidelity.

#### Conventional System



##### Conventional

Conventional technology was unable to use the boundaries between colours.



##### Conventional Lamp Drive System

Colour Wheel **B W G R**

Lamp Power

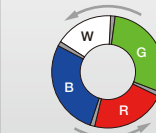
Because the lamp power was fixed in conventional projectors, colour reproduction was enhanced by sacrificing brightness.

#### RGB Booster



##### Vivid Colour Control

Ensures maximum utilization of the colour wheel by minimising unused section.



##### Lamp Modulation Drive System

Colour Wheel **B W G R**

Lamp Power

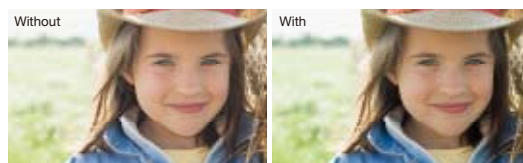
By modulating the lamp power, we can maximise the colour reproduction of each colour without sacrificing brightness.

### High Brightness with New AC Lamp

Our newly-developed 300-watt AC lamps are used in the PT-DW6300ES/D6000ES. The high-efficiency light convergence technology and the colour wheel work together to achieve the high brightness of 6,000 lm for the PT-DW6300ES and 6,500 lm for the PT-D6000ES. Clear, crisp images are reproduced even in bright rooms.

### Detail Clarity Processor Brings Depth and Clarity to Details

This advanced image-processing circuit analyses the video signal frequency range for each scene by extracting data on the distribution of high, mid, and low-frequency components, and brings out fine details accordingly. The resulting images have a more natural, three-dimensional appearance with crisp, clear detail.

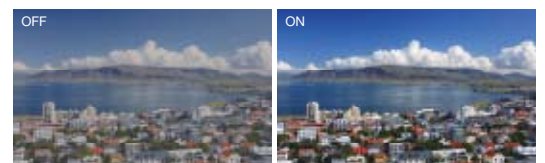


**Conventional sharpness control:** Sharpness is applied uniformly, which can cause a halo or ring effect and diminish the sense of depth.

**Detail Clarity Processor:** Signal frequency is extracted real-time and necessary sharpness is applied at varying degrees for natural, life-like images.

### System Daylight View 2 for Enhanced Colour Perception

Image details are less clear when a projector is used in a room with the lights on. Panasonic's System Daylight View 2 improves brightness perception by adjusting sharpness, gamma curves, and colour corrections. This produces crisper, more stunning images with vivid colours even under bright conditions.

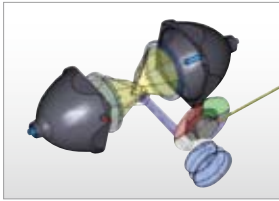




## Easy Maintenance and Superior Reliability

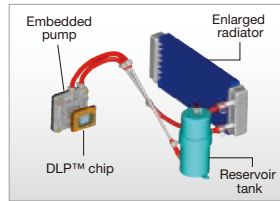
### Dual-Lamp System Prevents Image Interruptions

The Dual-Lamp System increases brightness and eliminates the need to interrupt a presentation if a lamp should burn out (in dual-lamp operation mode). The Lamp Relay mode also operates the lamps alternately to enable 24/7 projector operation.



### Liquid Cooling System Attains a High Level of Reliability

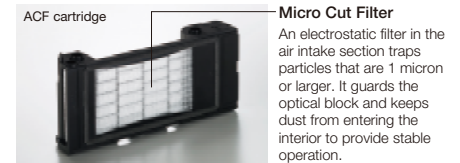
The liquid cooling system directly cools the DLP™ chip to improve performance and enable operation up to 45°C/113°F. This allows use in a wider variety of environments, while stabilising performance and keeping the unit quiet even in harsh conditions.



### Auto Cleaning Filter Reduces Maintenance Hassles



The Auto Cleaning Filter (ACF) provides a clean filter surface whenever it senses clogging, and brushes dust from the filter. This enhances the Micro Cut Filter's performance, so no filter replacement is needed for over 10,000 hours\*, reducing maintenance.

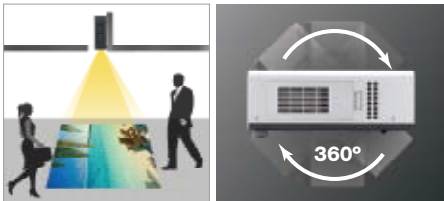


\*The replacement cycle given here is a guideline. It may differ depending on the usage environment.

## System Integration Flexibility

### Flexible Installation

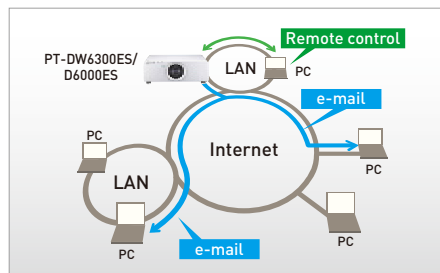
The wide adjustment range of the powered horizontal/vertical lens shift function assures virtually distortion-free images and adds convenience and versatility. It lets you easily make adjustments with the remote control. The unit can also be rotated 360° vertically. This means you can install it at any angle you want, to accommodate different installation conditions.



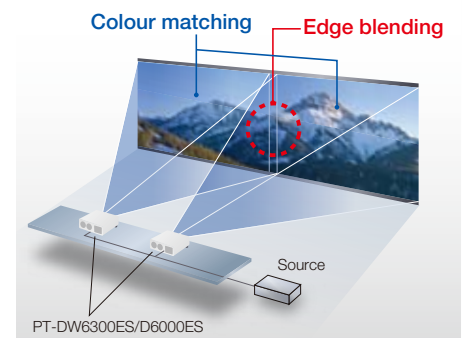
Images can be projected straight down or straight up.

### Web Browser Control/Monitoring and E-mail Message Alert

The PT-DW6300ES/D6000ES 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.



### Multi-Screen Support System Seamlessly Connects Multiple Screens



#### Edge Blending

The edges of adjacent screens can be blended and their luminance controlled.

#### Colour Matching

This function corrects for slight variations in the colour reproduction range of individual projectors.

#### Multi-screen Processor

The PT-DW6300ES/D6000ES can project large, multi-screen images without any additional equipment. Up to 100 units (10 x 10) can be edge-blended at a time.

### Side-by-Side Function PT-DW6300ES/DW6300ELS

The PT-DW6300ES can simultaneously display images from two sources\* onto a single screen. For example, you can display a PC image on the left and a video image on the right. Taking advantage of the wide-screen projection, this function gives you a host of new application possibilities to explore.

\*Some source combinations are not supported.



With the wide-aspect-ratio capability, you can project two large 4:3 images side-by-side.

### PJLink™ Compatibility PJLink™

The LAN terminals support PJLink™ Class 1 connection, which is highly convenient for system construction.

### Multi Projector Monitoring & Control Software

Panasonic's original "Multi Projector Monitoring & Control"™ firmware allows the user to control and monitor multiple projectors at the same time via LAN. Projectors can be scheduled to turn on and off at a certain hour everyday. When a problem occurs, an alarm message is sent to the monitoring/controlling PC.

### Standby Mode: eco\*

The PT-DW6300ES/D6000ES has attained a low standby power level of 0.3 W, which is a top-class level in its class. It also helps to slash running costs, and reduces environmental impact.

\*During eco standby mode operation, network functions such as standby-on from a LAN network and the serial output terminal will not operate.

### Other Features

- Full 10-bit Signal Processing
- 3D Colour Management System
- HD IP Converting Circuitry
- Digital Signal Noise Reduction Circuitry
- Dynamic Sharpness Control Circuitry
- Mechanical Lens Shutter
- 30m Long Range Wireless Remote Control
- Direct Power Off

### 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-DW6300ES/D6000ES 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.
- Standby power consumption of only 0.3 W has been achieved.

## Recommended Applications



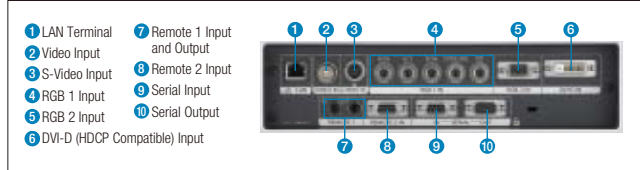
The PT-DW6300ES/D6000ES boasts superior image quality, flexible installation, and easy maintenance, making either model an ideal choice for use in classrooms, auditoriums, houses of worship, museums, and much more.

## Specifications

Models	PT-DW6300ES/DW6300ELS	PT-D6000ES/D6000ELS
Power supply	220-240 V AC 50/60 Hz	
Power consumption	750 W (840 VA), (Standby mode eco**): 0.3W, Standby mode normal: 9 W, Both with fan stopped.)	
DLP™ chip	Panel size	0.65" diagonal (16:10 aspect ratio)
	Display method	DLP™ chip x 1, DLP™ system
Pixels	1,024,000 (1,280 x 800) x 1, total of 1,024,000 pixels	786,432 (1,024 x 768) x 1, total of 786,432 pixels
	Powered zoom/focus lenses (1.8–2.4:1), F 1.7–2.0, f 25.6–33.8 mm	
Optional powered zoom/focus lenses		
Lamp	300 W UHM lamps (x 2) (dual-lamp system)	
Screen size	50–600 inches (50–200 inches with the ET-DLE055), 16:10 aspect ratio	50–600 inches (50–200 inches with the ET-DLE055), 4:3 aspect ratio
	Brightness*2: 6,000 lumens (dual-lamp, high power mode), 6,500 lumens (dual-lamp, high power mode)	
Centre-to-corner uniformity*2	90 %	
Contrast*2	2,000:1 (full on/full off, contrast mode: high)*3	
Resolution	1,280 x 800 pixels (input signals that exceed this resolution will be converted to 1,280 x 800 pixels), 1,024 x 768 pixels (input signals that exceed this resolution will be converted to 1,024 x 768 pixels),	
	Scanning frequency	
Scanning frequency	DVI-D	Horizontal: 15–91 kHz, Vertical: 50–85 Hz, Dot clock: 162 MHz or lower
	RGB	Horizontal: 15–91 kHz, Vertical: 50–85 Hz, Dot clock: 150 MHz or lower
	YPaPr (YCbCr)	525i (480i), 625i (576i), 625p (480p), 625p (576p), 750 (720i/60p), 750 (720p/50p), 1035i/60i, 1125i (1080i/60i), 1125i (1080p/50i), 1080i/25p, 1080i/24p, 1080i/24f, 1080i/30p, 1080i/60p, 1080i/50p
S-Video/Video	Horizontal: 15.75/15.63 kHz, Vertical: 50/60 Hz, (NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM)	
Optical axis shift	Vertical: +60 % (powered), horizontal: ±10 % (powered)   Vertical: +50 % (powered), horizontal: ±10 % (powered)	
Keystone correction range	Vertical: ±40° (±30° with the ET-DLE055)	
Installation	Ceiling/floor, front/rear	
Terminals*4	DVI-D IN	DVI-D 24-pin
	RGB 1/Y/PaPr IN	BNC x 5
	RGB 2/Y/PaPr IN	D-sub HD 15-pin
	VIDEO IN	BNC
	S-VIDEO IN	Mini DIN 4-pin
	SERIAL IN	D-sub 9-pin (RS-232C compliant)
	SERIAL OUT	D-sub 9-pin
	REMOTE 1 IN	M3 jack
	REMOTE 1 OUT	M3 jack
	REMOTE 2 IN	D-sub 9-pin
	LAN	RJ-45 for network connection, 10Base-T/100Base-TX, compliant with PoE Link™
	Power cord length	3.0 m (9'10")
Cabinet material	Molded plastic	
Dimensions (W x H x D)	PT-DW6300ES/D6000ES	498 mm x 175 mm x 440 mm (19-19/32" x 6-7/8" x 17-5/16") (with supplied lens)
	PT-DW6300ELS/D6000ELS	498 mm x 175 mm x 432 mm (19-19/32" x 6-7/8" x 17") (without lens)
Weight*5	PT-DW6300ES/D6000ES	Approx. 16.0 kg (35.3 lbs) (with supplied lens)
	PT-DW6300ELS/D6000ELS	Approx. 15.2 kg (33.5 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, Batteries for remote control (x 2), Wire rope	

\*1 During eco standby mode operation, network functions such as standby-on from a LAN network and the serial output terminal will not operate. \*2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. \*3 Brightness: 3,000 lumens (PT-DW6300ES/DW6300ELS), 3,250 lumens (PT-D6000ES/D6000ELS). \*4 The HD/SYNC and VD inputs do not accept the tri-level sync signal. \*5 Average value. May differ depending on models.

## Multiple terminals



## Optional accessories

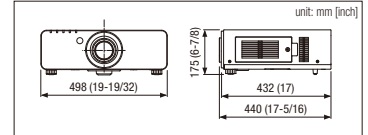
Lens	Zoom lens ET-DLE150 (1.4–2.0:1) PT-DW6300 (1.3–2.0:1) PT-D6000	Zoom lens ET-DLE250 (2.4–3.8:1) PT-DW6300 (2.4–3.7:1) PT-D6000	Zoom lens ET-DLE350 (3.8–5.7:1) PT-DW6300 (3.7–5.6:1) PT-D6000	Zoom lens ET-DLE450 (5.6–9.0:1) PT-DW6300 (5.5–8.9:1) PT-D6000	Fixed-focus lens ET-DLE055 (0.8:1)
<b>Lamp</b> Replacement lamp unit ET-LAD60 ET-LAD60W (twin pack)	<b>Filter</b> Replacement filter unit ET-ACF100	<b>Ceiling mount bracket</b> ET-PKD56H (for high ceilings) ET-PKD55S (for low ceilings)  			

## Black colour models

Models	PT-DW6300EK/D6000EK	PT-DW6300ELK/D6000ELK
Colour variation		
Lens	Included	Not included
Special order	Yes	Yes

\*The specifications are the same as those of the PT-DW6300ES and PT-D6000ES.

## Dimensions



## Projection distance

Diagonal image size	PT-DW6300E screen size (16:10)																	
	With ET-DLE150 1.4-2.0:1						With supplied lens 2.4-3.8:1						With ET-DLE250 3.8-5.7:1					
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.		
50"	1,447mm	2,116mm	1,922mm	2,557mm	2,542mm	4,063mm	3,999mm	6,112mm	5,957mm	9,595mm	871mm	2.9'						
80"	2,348mm	3,416mm	3,114mm	4,130mm	4,116mm	6,548mm	6,479mm	9,860mm	9,711mm	15,531mm	1,423mm	4.7'						
100"	2,949mm	4,282mm	3,909mm	5,178mm	5,165mm	8,204mm	8,133mm	12,359mm	12,215mm	19,488mm	1,791mm	5.9'						
150"	4,450mm	6,448mm	5,896mm	7,799mm	7,787mm	12,346mm	12,266mm	18,605mm	18,473mm	29,382mm	2,710mm	8.9'						
200"	5,952mm	8,614mm	7,884mm	10,420mm	10,410mm	16,488mm	16,400mm	24,852mm	24,731mm	39,276mm	3,629mm	12.0'						
300"	8,955mm	12,946mm	11,858mm	15,662mm	15,654mm	24,771mm	24,668mm	37,345mm	37,248mm	59,063mm	—	—						
400"	11,958mm	17,278mm	15,832mm	20,930mm	20,899mm	33,055mm	32,936mm	49,838mm	49,764mm	78,850mm	—	—						
500"	14,960mm	21,610mm	19,807mm	26,145mm	26,144mm	41,338mm	41,203mm	62,331mm	62,280mm	98,637mm	—	—						
600"	17,963mm	25,942mm	23,781mm	31,387mm	31,389mm	49,622mm	49,471mm	74,824mm	74,797mm	118,425mm	—	—						
PT-DW6300E screen size (16:9)																		
50"	1,489mm	2,176mm	1,977mm	2,630mm	2,615mm	4,178mm	4,114mm	6,286mm	6,131mm	9,870mm	897mm	3.0'						
80"	2,415mm	3,512mm	3,203mm	4,246mm	4,233mm	6,732mm	6,663mm	10,138mm	9,990mm	15,971mm	1,464mm	4.9'						
100"	3,032mm	4,403mm	4,020mm	5,324mm	5,311mm	8,435mm	8,362mm	12,706mm	12,563mm	20,038mm	1,842mm	6.1'						
150"	4,576mm	6,629mm	6,062mm	8,017mm	8,006mm	12,692mm	12,611mm	19,126mm	18,995mm	30,207mm	2,786mm	9.2'						
200"	6,119mm	8,855mm	8,105mm	10,711mm	10,701mm	16,948mm	16,860mm	25,546mm	25,427mm	40,376mm	3,731mm	12.3'						
300"	9,205mm	13,307mm	12,189mm	16,099mm	16,092mm	25,462mm	25,358mm	38,387mm	38,292mm	60,719mm	—	—						
400"	12,292mm	17,760mm	16,274mm	21,486mm	21,482mm	33,976mm	33,855mm	51,227mm	51,156mm	81,051mm	—	—						
500"	15,378mm	22,212mm	20,359mm	26,874mm	26,873mm	42,490mm	42,353mm	64,068mm	64,020mm	101,388mm	—	—						
600"	18,464mm	26,665mm	24,444mm	32,261mm	32,264mm	51,004mm	50,850mm	76,908mm	76,885mm	121,725mm	—	—						
PT-D6000E screen size (4:3)																		
50"	1,344mm	1,967mm	1,785mm	2,376mm	2,361mm	3,777mm	3,713mm	5,681mm	5,525mm	8,912mm	808mm	2.7'						
80"	2,183mm	3,177mm	2,895mm	3,840mm	3,826mm	6,090mm	6,023mm	9,170mm	9,020mm	14,438mm	1,322mm	4.4'						
100"	2,742mm	3,983mm	3,635mm	4,816mm	4,803mm	7,633mm	7,562mm	11,496mm	11,351mm	18,123mm	1,664mm	5.5'						
150"	4,140mm	6,000mm	5,485mm	7,256mm	7,244mm	11,489mm	11,411mm	17,312mm	17,177mm	27,333mm	2,519mm	8.3'						
200"	5,537mm	8,016mm	7,335mm	9,696mm	9,686mm	15,344mm	15,259mm	23,127mm	23,004mm	36,544mm	3,375mm	11.1'						
300"	8,333mm	12,049mm	11,035mm	14,576mm	14,568mm	23,056mm	22,956mm	34,758mm	34,656mm	54,966mm	—	—						
400"	11,129mm	16,082mm	14,735mm	19,456mm	19,451mm	30,788mm	30,653mm	46,389mm	46,309mm	73,387mm	—	—						
500"	13,924mm	20,115mm	18,435mm	24,336mm	24,334mm	38,480mm	38,350mm	58,020mm	57,961mm	91,809mm	—	—						
600"	16,720mm	24,148mm	22,135mm	29,216mm	29,217mm	46,192mm	46,047mm	69,651mm	69,614mm	110,231mm	—	—						

## NOTES ON USE

- 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.
- 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.
- 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 (1.64 feet) 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 alone 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 (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 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.
- 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 lamp if using the dual-lamp mode.
- 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.

# Panasonic

For more information about Panasonic projectors —  
<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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