# Panasonic ideas for life

## PT-**D5000ES** PT-**D5000ELS**

**DLP**<sup>™</sup> Based Projector



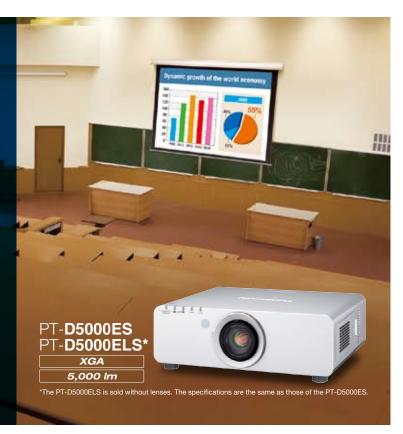






Refined Image Quality with Reliablility and Easy Maintenance

Panasonic's PT-D5000ES/D5000ELS\* 1-chip DLP™ projectors bring excellent image quality and natural, lifelike colours to your images. They also have a wealth of unique technologies, like our newly developed RGB Booster, which combines high brightness with superb colour reproduction, a Dual-Lamp System for solid reliability, and the Auto Cleaning Filter, which eliminates the need for filter maintenance for approximately 10,000 hours. These all-round projectors are extremely well suited to use in schools or training facilities, presentations, and business meetings or conferences.



### **Vivid Picture Quality with High Brightness**

#### **RGB Booster Significantly Improves Colour Reproduction**

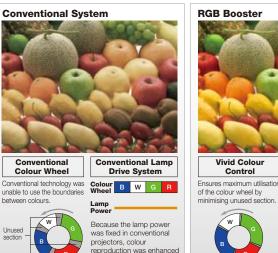
The RGB Booster achieves high image quality with levels of colour reproduction (up to 145% that of conventional models) and brightness that make each colour stand out. It combines Panasonic's proprietary Vivid Colour Control technology with a newly engineered Lamp Modulation Drive System for a 1-chip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

#### ■ Vivid Color Control

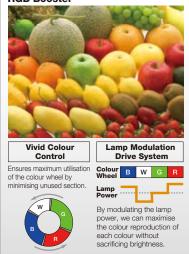
This unique control technology optimises the use of the colour segment areas of the colour wheel. It increases the brightness of each RGB colour by minimising the unallocated portions between the colours, to achieve truly vivid colouring.

#### ■ 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.



sacrificing brightness



## High Brightness with AC Lamp

High-efficiency light convergence technology and a colour wheel work together to achieve an outstanding 5,000 lm of brightness. It reproduces clear, crisp images 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.

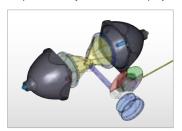




#### **Easy Maintenance and Superior Reliability**

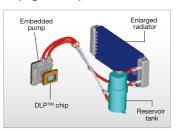
## **Dual-Lamp System Prevents Image Interruptions**

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.



#### Micro Cut Filter

An electrostatic filter in the air intake section traps particles that are 1 micron or larger. It guards the optical block and keeps dust from entering the interior to provide stable operation.

\*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.



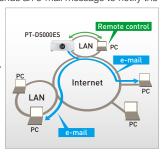
#### **Mechanical Lens Shutter**

The mechanical lens shutter completely blocks annoying light leakage when the PT-D5000ES is on standby or temporarily not in use, such as during a meeting.

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

The PT-D5000ES 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.



#### 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" freeware 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.

#### **Eco Standby Mode\***

The PT-D5000ES 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.

\* In Eco standby mode, LAN-based network functions such as the standby ON function 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
- •30m Long Range
- Wireless Remote Control
- •Direct Power Off

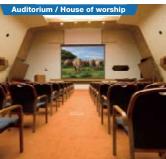
#### **Ecology-conscious Design**

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-D5000ES 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 0.2 W\*\* has been achieved.

#### **Recommended Applications**









The PT-D5000ES 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**

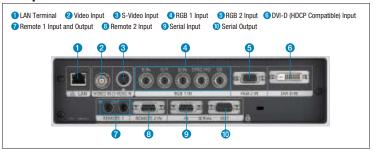
Power suppl	ly	220-240 V AC 50/60 Hz				
Power consumption		600 W (670 VA)				
		(Eco standby mode*1: 0.3 W, Standby mode normal: 9 W. Both with fan stopped.)				
DLP™ chip	Panel size	0.7" diagonal (4:3 aspect ratio)				
	Display method	DLP™ chip x 1, DLP™ system				
	Pixels	786,432 (1,024 x 768) x 1, total of 786,432 pixels				
Lens	PT-D5000ES	Powered zoom/focus lenses (1.8–2.4:1), F 1.7–2.0, f 25.6–33.8 mm				
	PT-D5000ELS	Optional powered zoom/focus lenses				
Lamp	I .	240 W UHM lamps (x 2) (dual-lamp system)				
Screen size		50–600 inches (50–200 inches with the ET-DLE055), 4:3 aspect ratio				
Brightness*2	2	5,000 lumens (dual-lamp)				
	orner uniformity*2	90 %				
Contrast*2	,	1,000:1 (full on/full off)				
Resolution		1,000.1 (tuli dividii dif)				
11000101011		(Input signals that exceed this resolution will be converted to 1,024 x 768 pixels.)				
Scanning	DVI-D	Horizontal: 15–91 kHz, Vertical: 50–85 Hz, Dot clock: 162 MHz or lower				
frequency	RGB					
,	YP <sub>B</sub> P <sub>R</sub> (YC <sub>B</sub> C <sub>R</sub> )	Horizontal: 15–91 kHz, Vertical: 50–85 Hz, Dot clock: 150 MHz or lower				
	II BI N (TOBON)	525i (480i), 625i (576i), 525p (480p), 625p (576p), 750 (720)/60p,				
		750 (720)/50p, 1035/60i, 1125 (1080)/60i, 1125 (1080)/50i, 1080/25p, 1080/24p				
	S-Video/Video	1080/24sF, 1080/30p, 1080/60p, 1080/50p				
	5-video/video	Horizontal: 15.75/15.63 kHz, Vertical: 50/60 Hz, (NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM)				
0.11.1.1.11.11						
Optical axis		Vertical: +50 % (powered), horizontal: ±10 % (powered)				
nstallation	rrection range	Vertical: ±40° (±30° with the ET-DLE055)				
	DV# D #1	Ceiling/floor, front/rear				
Terminals*3		DVI-D 24-pin				
	RGB 1/YPBPR IN	BNC x 5				
	RGB 2/YPBPR 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 PJLink™				
Power cord length		3.0 m (9´10´´)				
Cabinet material		Molded plastic				
Dimensions (W x H x D)	PT-D5000ES	498 mm x 175 mm*4 x 440 mm*5 (19-19/32" x 6-7/8" *4 x 17-5/16" *5) (with supplied lens				
	PT-D5000ELS	498 mm x 175 mm*4 x 432 mm (19-19/32" x 6-7/8" *4 x 17") (without lens)				
Weight*6	PT-D5000ES	Approx. 16.0 kg (35.3 lbs) (with supplied lens)				
	PT-D5000ELS	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 In Eoo standby mode, LAN-based network functions such as the standby ON function will not operate.
  2 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
  3 The HD/SNO and VD injust so not accept the tri-level sync signal.
  4 With leg at shortest position.
  5 Including the supplied lens.
  6 Average value. May differ depending on models.

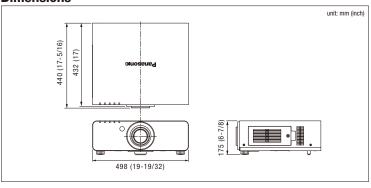
#### **Optional accessories**

Lens						
Zoom lens <b>ET-DLE150</b> (1.3–2.0:1)	Zoom lens <b>ET-DLE250</b> (2.4–3.7:1)	T-DLE250 ET-DLE350		Fixed-focus lens ET-DLE055 (0.8:1)		
Lamp	Filter		Ceiling mount bracket			
Replacement lamp unit ET-LAD60 ET-LAD60W (twin pac	ET-ACF1	ent filter unit <b>00</b>	ET-PKD56H (for high ceilings) ET-PKD55S (for low ceilings)			
	•		ET-PKD55S	ET-PKD56H		

#### **Multiple terminals**



#### **Dimensions**



#### **Projection distance**

Screen size (4:3)											
Diagonal image	With ET-DLE150 1.3-2.0:1		With supplied lens 1.8-2.4:1		With ET-DLE250 2.4-3.7:1		With ET-DLE350 3.7-5.6:1		With ET-DLE450 5.5-8.9:1		With ET-DLE055
size	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	0.8:1
50"	1,344mm 4.5'	1,967mm 6.5'	1,785mm 5.9'	2,376mm 7.8'	2,361mm 7.8'	3,777mm 12.4'	3,713mm 12.2'	5,681mm 18.7'	5,525mm 18.2'	8,912mm 29.3'	808mm 2.7'
80"	2,183mm 7.2'	3,177mm 10.5'	2,895mm 9.5'	3,840mm 12.6'	3,826mm 12.6'	6,090mm 20.0'	6,023mm 19.8'	9,170mm 30.1	9,020mm 29.6'	14,438mm 47.4'	1,322mm 4.4'
100"	2,742mm 9.0'	3,983mm 13.1'	3,635mm 12.0'	4,816mm 15.9'	4,803mm 15.8'	7,633mm 25.1'	7,562mm 24.9'	11,496mm 37.8'	11,351mm 37.3'	18,123mm 59.5'	1,664mm 5.5'
150"	4,140mm 13.6'	6,000mm 19.7'	5,485mm 18.0'	7,256mm 23.9'	7,244mm 23.8'	11,489mm 37.7'	11,411mm 37.5'	17,312mm 56.8'	17,177mm 56.4'	27,333mm 89.7'	2,519mm 8.3'
200"	5,537mm 18.2'	8,016mm 26.3'	7,335mm 24.1'	9,696mm 31.9'	9,686mm 31.8'	15,344mm 50.4'	15,259mm 50.1'	23,127mm 75.9'	23,004mm 75.5'	36,544mm 119.9'	3,375mm 11.1'
300"	8,333mm 27.4'	12,049mm 39.6'	11,035mm 36.3'	14,576mm 47.9'	14,568mm 47.8'	23,056mm 75.7'	22,956mm 75.4'	34,758mm 114.1'	34,656mm 113.8'	54,966mm 180.4'	_
400"	11,129mm 36.6'	16,082mm 52.8'	14,735mm 48.4'	19,456mm 63.9'	19,451mm 63.9'	30,768mm 101.0'	30,653mm 100.6'	46,389mm 152.2'	46,309mm 152.0'	73,387mm 240.8'	_
500"	13,924mm 45.7'	20,115mm 66.0'	18,435mm 60.5'	24,336mm 79.9'	24,334mm 79.9'	38,480mm 126.3'	38,350mm 125.9'	58,020mm 190.4'	57,961mm 190.2'	91,809mm 301.3'	_
600"	16,720mm 54.9'	24,148mm 79.3'	22,135mm 72.7'	29,216mm 95.9'	29,217mm 95.9'	46,192mm 151.6'	46,047mm 151.1'	69,651mm 228.6'	69,614mm 228.4'	110,231mm 361.7'	_

#### **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. Do not install the projector in locations that are subject to excessive water, numbidy, steam, or only smoke. During so may result in lire, malfunction, or electric shot.
   The projector uses a high-valtage 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-valtage lamp that becomes very hot during operation. Please observe the following precautions.
   Never place objects on top of the projector while it is in operation.
   Make sure there is an unobstructed space of 500 mm (1.64 feet) or more around the projector's exhaust openings.

- Make sure there is all inclusationated space or 300 tilling (not leep or linde abound the projector is existing projector units, be sure to provide the amount of space indicated between them. These space requirements also apply to installation where only one 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 (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 openings.

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- \* 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 focus 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 (tamp 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.

  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.

## **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.

This product may be subject to export regulations.

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