Panasonic ideas for life

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

1-Chip DLP™ Projectors



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 Reliablility and Easy Maintenance

Panasonic 1-chip DLPTM 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 6,500 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***

> WXGA 6.000 lm



PT-**D6000ES** PT-**D6000ELS***

XGA

6,500 lm



*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

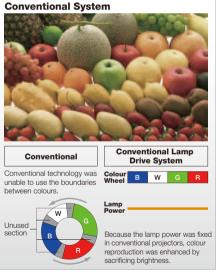
The RGB Booster achieves high image quality with levels of colour reproduction (up to 145% that of conventional models) and brightness that make each colour stand out. It combines Panasonic's proprietary Vivid Colour Control technology with a newly engineered Lamp Modulation Drive System for a 1-chip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

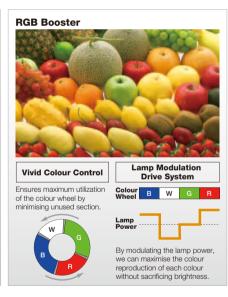
■ Vivid Colour Control

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.





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

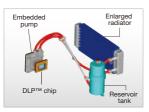
Dual-Lamp System Prevents Image Interruptions

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 $\mathsf{DLP^{\mathsf{TM}}}$ 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 ACF **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

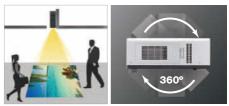
dust from entering the interior to provide stable operation.

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.



nages can be projected straight down or straight up.

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.

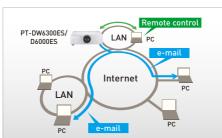
*Some source combinations are not supported



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

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.



PJLink™ Compatibility

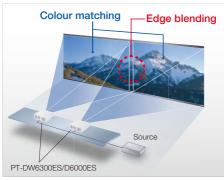
PULink

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.

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-DW6300FS/D6000FS can project large. multi-screen images without any additional equipment. Up to 100 units (10 x 10) can be edge-blended at a time.

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
- Dvnamic Sharpness Control Circuitry
- Mechanical Lens Shutter
- •30m Long Range
- Wireless Remote Control

Ecology-conscious Design

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/D6000EL							
Power supply	y	220-240 V AC 50/60 Hz							
Power consu	ımption	750 W (840 VA), (Standby mode eco*1: 0.3W, Standby mode normal: 9 W. Both with fan stopped							
DLP™ chip Panel size		0.65" diagonal (16:10 aspect ratio) 0.7" diagonal (4:3 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 pix							
Lens PT-DW6	300FS/D6000FS	Powered zoom/focus lenses (1.8–2.4:1), F 1.7–2.0, f 25.6–33.8 mm							
	300ELS/D6000ELS	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							
Brightness*2		6,000 lumens (dual-lamp, high power mode)	6,500 lumens (dual-lamp, high power mode)						
	rner uniformity*2	90							
Contrast*2	mor uniformity								
Resolution		2,000:1 (full on/full off, contrast mode: high)*3 1,280 x 800 pixels (Input signals that exceed this 1,024 x 768 pixels (Input signals that exceed the							
ricoolation		resolution will be converted to 1,280 x 800 pixels.)							
Scanning	DVI-D	Horizontal: 15-91 kHz, Vertical: 50-							
frequency	RGB	Horizontal: 15-91 kHz, Vertical: 50-							
.,,	YPBPR (YCBCR)		(576p), 750 (720)/60p, 750 (720)/50p, 1035/60i,						
	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		Vertical: +60 % (powered), horizontal: ±10 % (powered) Vertical: +50 % (powered), horizontal: ±10 % (powered)							
	rection range	Vertical: ±40° (±30° with the ET-DLE055)							
Installation	Toolon range	Ceiling/floor, front/rear							
Terminals*4	DVI-D IN	DVI-D 24-pin							
	RGB 1/YPsPs IN		BNC x 5						
	RGB 2/YP _B P _R IN	D-sub HD 15-pin							
	VIDEO IN	Bř	IC						
	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-	Г/100Base-TX, compliant with PJLink™						
Power cord I	ength	3.0 m (9'10')							
Cabinet mate	erial	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-DW6	300ELS/D6000ELS	498 mm x 175 mm x 432 mm (19-19/32" x 6-7/8" x 17") (without lens)							
Weight*5 PT-DW6	300ES/D6000ES	Approx. 16.0 kg (35.3 lbs) (with supplied lens)							
	300ELS/D6000ELS	Approx. 15.2 kg (33.5 lbs) (without lens)							
Operating te		0-45°C (3							
Operating hu		20–80 % (no condensation)							
			Power cord, Wireless/wired remote control unit, Batteries for remote control (R6/LR6 type 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 tunners (PT-MG800ES/DW60DELS), 250 tunners (PT-G800ES/DW60DES), 260 tunners (PT-G800ES/DW60DES), and VD inputs do not accept the tri-level sync signal. *5 Average value. May differ depending on models.

Multiple terminals



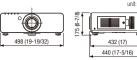
Optional accessories

Lens			Lamp	Filter
Zoom lens ET-DLE080 (0.82–1.03:1) PT-DW6300 (0.81–1.01:1) PT-D6000	Zoom lens ET-DLE150 (1.4-2.0:1) PT-DW6300 (1.3-2.0:1) PT-D6000	Zoom lens ET-DLE250 (2.43.8:1) PT-DW6300 (2.43.7:1) PT-D6000	Replacement lamp unit ET-LAD60A ET-LAD60AW (twin pack)	Replacement filter unit ET-ACF100
Zoom lens	Zoom lens	Fixed-focus lens	Ceiling mount bracket	
(3.8–5.7:1) PT-DW6300 (3.7–5.6:1) PT-D6000	ET-DLE450 (5.6–9.0:1) PT-DW6300 (5.5–8.9:1) PT-D6000	ET-DLE055 (0.8:1)	ET-PKD56H (for high ceiling ET-PKD55S (for low ceilings ET-PKD55S	
11-2000	11-50000			ET-PKD56H

Black colour models

Models	PT-DW6300EK/D6000EK	PT-DW6300ELK/D6000ELK						
Colour variation	0	0						
	Black	Black						
Lens	Included	Not included						
Special order	Yes	Yes						
*The enecifications are the same as those of the DT DMC200EC and DT DC000EC								

Dimensions



Duele ellen dietense

Projection distance													
PT-D	W6300E s	creen size	(16:10)				Throw	v distance					
Diagonal image size	With ET- 0.82-1 min.		With ET- 1.4-: min.	-DLE150 2.0:1 max.	With sup	plied lens max.	With ET- 2.4-3 min.		With ET- 3.8-	-DLE350 5.7:1 max.	With ET- 5.6-		With ET-DLE055 0.8:1
50"	868mm 2.8'	1,089mm 3.6'		2,116mm 7.0'	1,922mm 6.4'	2,557mm 8.4'	2,542mm 8.4'			6,112mm 20.1	5,957mm 19.6'		871mm 2.9'
80"	1,418mm 4.7'	1,769mm 5.8'	2,348mm 7.8'	3,416mm 11.3'	3,114mm 10.3'	4,130mm 13.6'	4,116mm 13.6'	6,548mm 21.5'	6,479mm 21.3'	9,860mm 32.4'	9,711mm 31.9'	15,531mm 51.0'	1,423mm 4.7'
100"	1,784mm 5.9'	2,222mm 7.3'	2,949mm 9.7'	4,282mm 14.1'	3,909mm 12.9'	5,178mm 17.0'	5,165mm 17.0'	27.0'	26.7	12,359mm 40.6'	12,215mm 40.1'	64.01	1,791mm 5.9'
150"	2,699mm 8.9'	3,356mm 11.0'	4,450mm 14.6'	21.2'	5,896mm 19.4'	7,799mm 25.6'	7,787mm 25.6'	12,346mm 40.6'	12,266mm 40.3'	18,605mm 61.1'	18,473mm 60.7'	29,382mm 96.4'	2,710mm 8.9'
200"	3,615mm 11.9'	4,489mm 14.7'	5,952mm 19.6'	28.3'	7,884mm 25.9'	10,420mm 34.2'	34.2'	54.1'	16,400mm 53.9'	81.6'	24,731mm 81.2'	128.9'	3,629mm 12.0'
300"	5,446mm 17.9'	6,755mm 22.2'	29.4'	12,946mm 42.5'	39.0'	15,662mm 51.4'	51.4'	81.3'	24,668mm 81.0'	122.6'	37,248mm 122.3'	193.8'	=
400"	7,277mm 23.9'	9,022mm 29.6'	39.3	56.7'	52.0'	20,903mm 68.6'	68.6'	108.5'	32,936mm 108.1'	163.6'	49,764mm 163.3'	258.7'	_
500"	29.9'	11,288mm 37.0'	49.1'	21,610mm 70.9'	65.0	26,145mm 85.8'	85.8'	135.7'	41,203mm 135.2'	204.5'	62,280mm 204.4'	323.7'	_
600"	10,939mm 35.9'	13,555mm 44.5'	17,963mm 59.0'	25,942mm 85.2'	23,781mm 78.1	31,387mm 103.0'	31,389mm 103.0'	49,622mm 162.9'	49,471mm 162.4'	74,824mm 245.5'	74,797mm 245.4'	118,425mm 388.6'	=
PT-D	W6300E s	creen size	(16:9)										
50"	894mm 2.9'	1,121mm 3.7'	1,489mm 4.9'	2,176mm 7.2'	1,977mm 6.5'	2,630mm 8.7'	2,615mm 8.6'	4,178mm 13.8'	4,114mm 13.5'	6,286mm 20.7'	6,131mm 20.2'	9,870mm 32.4'	897mm 3.0'
80"	1,458mm 4.8'	1,819mm 6.0'	2,415mm 8.0'	3,512mm 11.6'	3,203mm 10.6'	4,246mm 14.0'	4,233mm 13.9'	6,732mm 22.1'	6,663mm 21.9'	10,138mm 33.3'	9,990mm 32.8'	15,971mm 52.4'	1,464mm 4.9'
100"	1,835mm 6.0'	2,285mm 7.5'	3,032mm 10.0'	4,403mm 14.5'	4,020mm 13.2'	5,324mm 17.5'	5,311mm 17.5'	8,435mm 27.7'	8,362mm 27.5'	12,706mm 41.7'	12,563mm 41.3'	65.8'	1,842mm 6.1'
150"	2,776mm 9.1'	3,450mm 11.3'	4,576mm 15.1'	6,629mm 21.8'	6,062mm 19.9'	8,017mm 26.4'	8,006mm 26.3'	12,692mm 41.7'	12,611mm 41.4'	19,126mm 62.8'	18,995mm 62.4'	30,207mm 99.2'	2,786mm 9.2'
200"	3,717mm 12.2'	4,615mm 15.1'	6,119mm 20.1'	8,855mm 29.1'	8,105mm 26.6'	10,711mm 35.2	10,701mm 35.2'	16,948mm 55.7'	16,860mm 55.4'	25,546mm 83.9'	25,427mm 83.5'	40,376mm 132.5'	3,731mm 12.3'
300"	5,599mm 18.4'	6,944mm 22.8'	30.31	43.7'	40.01	16,099mm 52.9'	52.8'	83.6	25,358mm 83.2'	126.0'	38,292mm 125.7'	199.2'	=
400"	7,481mm 24.5'	9,274mm 30.4'	12,292mm 40.4'	17,760mm 58.3'	16,274mm 53.4'	21,486mm 70.5'	21,482mm 70.5	33,976mm 111.5'	33,855mm 111.1'	51,227mm 168.1'	51,156mm 167.9'	81,051mm 266.0'	=
500"	9,362mm 30.7'	11,604mm 38.1'	50.5'	22,212mm 72.9'	66.8	26,874mm 88.2'	88.2'	139.5'	42,353mm 139.0'	210.2'	64,020mm 210.1'	332.7'	=
600"	11,244mm 36.9'	13,933mm 45.7'	18,464mm 60.6'	26,665mm 87.5'	24,444mm 80.2'	32,261mm 105.9'	32,264mm 105.9'	51,004mm 167.4'	50,850mm 166.9'	76,908mm 252.4'	76,885mm 252.3'	121,725mm 399.4'	=

PT-D6000E screen size (4:3)													
Diagonal image	With ET-DLE080 0.81-1.01:1		With ET-DLE150 1.3-2.0:1		With supplied lens		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.	min.	max.	0.8:1
50"	805mm 2.6'	1,011mm 3.3'	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 29.31	808mm 2.7'
80"	1,317mm 4.3'	1,644mm 5.4'	2,183mm 7.2'	3,177mm 10.5'	2,895mm 9.5'	3,840mm 12.6'	3,826mm 12.6¹	6,090mm 20.0'	6,023mm 19.8'	9,170mm 30.1	9,020mm 29.61	14,438mm 47.4'	1,322mm 4.4'
100"	1,658mm 5.4'	2,066mm 6.8'	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 37.31	18,123mm 59.5'	1,664mm 5.5'
150"	2,510mm 8.2'	3,121mm 10.2'	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"	3,362mm 11.0'	4,176mm 13.7'	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"	5,067mm 16.6'	6,286mm 20.61	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"	6,771mm 22.2'	8,396mm 27.5'	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'			73,387mm 240.8'	_
500"	8,476mm 27.8'	10,506mm 34.5'	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"	10,181mm 33.4'	12,616mm 41.4'	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

- 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 fall to illuminate, due to impact or extended use.

 3. The projector uses a high-voltage lamp that becomes very hot during operation. Please observe the following precautions.

 4. Wake sure there is an undostructed space of 500 mm (1.64 feet) or more around the projector's exhaust spenings.

 5. Do not stack reported runs if series up to make the projector with list to operation.

 6. If the projector runs is device or enclosure, temperature of the air surrounding the projector. 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 afone time and the other unit is used as a backup.

 6. If the projector is placed in a box or enclosure, temperature of the air surrounding the projector must be between 0°C 12°C2? Frand 40°C (10°C) 4P, 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.

 6. Year when the ambient temperature near the intake opening is 40°C (10°F4) or lower, an accumilation of hot air inside the cabinet may cause the projector's intake and shut down the projector. Please give ample consideration to the design with regard to ambient temperature conditions.

 7. If the projector is to 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.

 7. The lamp replacement cycle duration becomes shorter if the projector cannot be operated organized upon of time that it takes for the lamp to turke for fall to illuminate veries greatly

Panasonic

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





Factories of Systems Business Group have received ISO14001:2004 – the Environmental Management System certification. (Except for 3rd party's peripherals.)

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

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