Panasonic ideas for life

PT-**DW10000E**

3-chip DLP™ Projector



Full-HD DLP™ system projector with 10,000 lumens of brightness



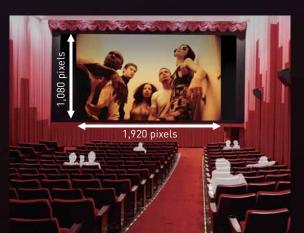




High contrast ratio — 5,000:1

Clear, bright projection of detailed HD images

The PT-DW10000E is a full high-definition projector that can faithfully display HD content. High brightness is assured by a four lamp system that delivers 10,000 lumens, while dynamic iris technology achieves an outstanding 5,000:1 contrast ratio. Three-chip DLP $^{\rm IM}$ technology provides excellent resistance to deterioration due to aging, making the DW10000E an extremely reliable system projector.

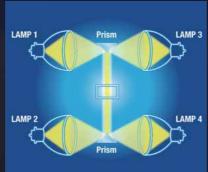


Panasonic's new technologies improve reliability and installation ease

Minimal downtime, high efficiency, and a bright picture.

MULTI-LAMP OPTICAL SYSTEM

With Panasonic's original four lamp system, the PT-DW10000E generates 10,000-lumen brightness. If one lamp burns out during operation, the remaining lamps provide plenty of light to continue projecting. A lamp relay mode is also included. Extended, continuous operation is possible by lamp mode selection.



Lamp replacement cycle and brightness guidelines

AUTO CLEANING ROBOT

Air filter

Rear side of the filter tray

ACR brush

Lamp mode	Light output (lumens)	Lamp replacement cycle (hours)			
Four lamps	10,000	2,000			
Three lamps	7,500	3,000			
Two lamps	5,000	4,000			
One lamp	2,500	8,000			

Panasonic **Original**

Panasonic Original

*The values above are maximum values when all 4 lamps are replaced simultaneously, and when they are used in cycles of being turned on for 3.5 hours and off for 0.5 hour. When the lamps are turned on and off more frequently, the lamp replacement cycle is shortened. (It is recommended that the mechanical shutter be used to turn images off for a short period.)

Provides 2,000 hours of use without filter maintenance.

AUTO CLEANING ROBOT (ACR)

The PT-DW10000E is the world's first*1 projector with an automatic filter cleaning system. When you switch on the projector*2, the air filter operates and the brush of the auto cleaning "robot" removes dust from the filter. This prevents the clogging results in malfunctions and other problems.

Micro cut filter

A new filter in the air intake section traps dust particles that are 10 microns*3 or larger. By capturing approximately 7 times as much dust as our previous filters, it guards against optical blocks and reduces the penetration of dust into to the interior to provide stable operation by for example, preventing drops in brightness.



*1 As of March, 2007. *2 When using the timer, you cannot set the filter to be cleaned more than once every 24 hours. Cleaning occurs either when the system is switched on or when it is cooling down when the specified cleaning time comes. The timer can be set to any time between 00:00 and 23:50 in 10-minute increments. You can also manually clean the filter using the menu on the on-screen display. *3 Individual lint particles and pollen are examples of dust with a size of 10 microns.

Use the optional smoke-cut filter (ET-SFD100) at staging events with smoke or fog..

Dramatically reduced the size, weight and volume.

1/2 CONCEPT

Panasonic's liquid-cooling system made it possible to significantly downsize the PT-DW10000E, to achieve a compact body. The size is 30% smaller and the weight and volume are 70% less than our previous models.* The PT-DW10000E also offers flexible installation and is easy to operate.

*PT-D9510/PT-D9610

	PT-D9510/PT-D9610	PT-DW10000E
Weight	100 kg	32 kg
Dimensions	W 753 mm x H 428 mm x D 1051 mm	W 578 mm x H 320 mm x D 643 mm
Volume	0.33 m ³	0.11 m ³
Power consumption	2,200 W	1,450 W



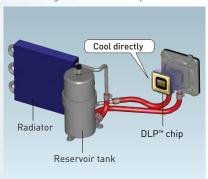
HIGH RELIABILITY

New cooling structure Panasonic Original

In order to further enhance the cooling efficiency, we completely revised the placement of various internal components and combined this with our popular cooling system to enable use in temperatures up to 45°C. This allows use in a wider variety of environments, and keeps the operation more stable even in harsh conditions.

Liquid-cooling system Panasonic Original

Panasonic's original liquid-cooling system directly cools the DLP™ chips, which extends the PT-DW10000E's performance and attains a high level of reliability.

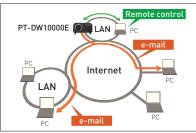


Web browser control/ monitoring and e-mail message alert

Anybody can operate the PT-DW10000E 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-DW10000E sends an

e-mail message to notify the operator when an error has occurred, or a lamp needs to be replaced.





PJLink™ Compatible

PJLink

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

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.

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



Lamp LED indicator and self-diagnosis function

The projector body is equipped with a temperature alarm LED and a burnt-lamp alarm LED (for lamps 1 to 4). In previous models, the LED indicator was visible only



from the front. In the PT-DW10000E the LED is visible from both front and top, so you can see it easily even if the unit is hung from the ceiling. Information on the location of the error is also given in the on-screen display. A self-diagnosis function is also provided. Error codes displayed on the 3-digit, 7segment LED on the side of the projector tell the operator where the problem is.

HIGH IMAGE QUALITY/FLEXIBLE INSTALLATION

Dynamic iris

Panasonic Original

Incorporating exclusive Panasonic technology, the dynamic iris opens and closes with exceptional speed and precision as the input signal changes, resulting in accurate, real-time control of the light striking the DLP™ chips. The dynamic iris is positioned immediately after the light synthesiser and before the integrator, so it has minimal adverse effect on the overall light uniformity across the screen.







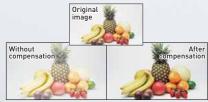


Full 10-bit picture processing

The use of a full 10-bit image processing system provides smooth tonal expression. For example, skin tones appear natural and true to life

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.



*Images are simulated

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.

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.

Horizontal/Vertical lens shift

A wide adjustment range for the horizontal/ vertical lens shift assures virtually distortion-free images and adds convenience and versatility. Fine adjustment is made within ±60 % from center in the vertical direction and within ±20 % from center in the horizontal direction. (Horizontal: powered, Vertical:

*For the ET-D75LE6, the adjustment is within ± 50 % in the vertical direction and ± 15 % in the horizontal direction.

Optional lenses for various venues

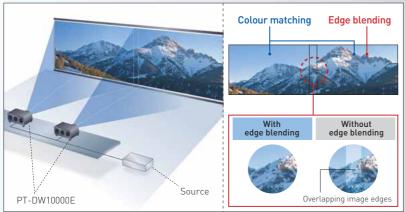
Seven optional lenses with different throw distances are available. These powered zoom/focus lenses enable the projector to perform superbly in an array of projection

environments. The lens cover opens in both front and top directions making it easier to install the lens by viewing the mark on the top of the lens.



MULTIPLE SYSTEM APPLIANCE

Built-in multi-screen support system



*When edge blending and colour matching are set, the brightness and colour balance at the boundaries where screens are joined may lack uniformity due to differences in the uniformity of the screen gain directivity, the brightness of each lamp mode, etc.

Multi-screen processor

The PT-DW10000E can project large, multi-screen images without any additional equipment. Up to 100 units (10 x 10) can be edge-blended at a time.

Colour matching

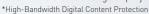
When several units are used together, this function corrects for slight variations in the colour reproduction range of individual projectors. The PC software assures easy, accurate control. Independent, 7-axis adjustment (red, green, blue, yellow, magenta, cyan, white) ensures high precision and minimises colour variations.

Edge blending

The edges of adjacent screens can be blended and their luminance controlled. For example, the adjoining edges in a 2x2 multi-screen system can be blended to create a smooth, seamless image.

Multiple terminals including DVI-D and LAN slots

The PT-DW10000E comes equipped with DVI-D and LAN $[PJ-Link^{TM}]$ slots. It also features an array of terminals, including two RGB inputs, a 5-BNC connector and Dsub HD 15-pin, serial in/out, S-video input, two remote inputs, and one remote out. In addition to offering DVI-D control, the PT-DW10000E is HDCP*-compliant and thus meets a broad range of projection needs.





Other features

 Mechanical lens shutter
 Picture in picture (main/sub input source combinations possible only when using computer and video) •Anti-theft features with chain opening •ID assignment for up to 64 units •Coordinated groups •Digital vertical keystone correction •Built-in test pattern •Selectable 9-language on-screen menu (English, German, French, Spanish, Italian, Russian, Japanese, Chinese, Korean)

UNIVERSAL DESIGN

Easy lamp replacement

You can remove the back cover by removing a single screw. This makes it easy to replace a lamp, even if the projector is suspended from

the ceiling or tucked in a hard-to-reach space.



Grooved for easy handling

Grooves on all four sides of the projector's bottom let you get a firm, comfortable grip on the unit and move it safely.

Blind touch operation key/ New remote control

he keys have pits and projections that let you operate the projector by blind touch. A light can also be turned on



to illuminate the control panel, for easy operation in a darkened room. The wireless operation range has been extended to 30 m, giving you control from a greater distance. Thanks to the backlight, you can check all the keys on the remote control even in the dark. The lens can also be adjusted using the lens adjustment direct key that was newly added to the remote control.

Ecological-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-DW10000E reflects the following ecological considerations.

- Lead-free solder is used to mount components to the printed circuit boards.
 Lamp power switching further reduces power consumption.
 Auto Power Save activates standby mode when no signal is input.

Optional accessories Lens Input signal board* Zoom lens Fixed focus lens SD-SDI ET-D75LE5 (0.7:1) ET-D75LE6 (0.9 - 1.1:1) Input signal board Input signal board ET-D75LE1 (1.4 - 1.8:1) ET-MD77SD1 FT-MD77DV ET-D75LE2 (1.8 - 2.8:1) ET-D75LE3 (2.8 - 4.6:1) HD/SD Dual link HD-SDI ET-D75LE4 (4.6 - 7.4:1) Input signal board ET-D75LE8 (7.3 - 13.8:1) ET-MD100SD4 ET-MD77SD3 ET-D75LE1 Smoke Cut Filter Carrying handle Frame Ceiling mount bracket Replacement lamp unit ET-SFD100 ET-PFD100 ET-HAD100 ET-LAD10000

ET-LAD10000F (four pack)

FT-I AD10000



This optional smoke filter must be used for staging events where smoke or fog is dispersed





High-ceiling mount bracket ET-PKD100H Low-ceiling mount bracket ET-PKD100S



Specifications

DLP™ chip Panel size Display method

0.95" diagonal (16:9 aspect ratio)
DLP™ chip x 3 (R, G, B), DLP™ projection system
2,073,600 (1,920 x 1,080) x 3, total of 6,220,800 pixels
250 W UHM lamp x 4 (four lamp system) **Pixels**

Lamp Brightness*1 10,000 lumens (four-lamp operation mode) 5,000:1 (full on/full off, in Dynamic iris 3 mode) 1,920 x 1,080 pixels Contrast ratio*1

Resolution

(1,600 x 1,200 pixels compatible, compression mode) Lens

Optional powered zoom/focus lenses 70 - 600 inches, 16:9 aspect ratio Screen size

(70 - 300 inches, 16:9 aspect ratio with the ET-D75LE5) Vertical: ±60% (±50% with the ET-D75LE6) (powered) Lens shift Horizontal: ±20% (±15% with the ET-D75LE6) (powered) fH 15-100 kHz, fV 24-120 Hz Dot clock 20-162 MHz

RGB input scanning frequency

Component signal

BOCCIOCA COLOR WILL 480i, 480p, 576i, 576p, 720/60p, 720/50p, 1035/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p, 1080/60i, 1080/50i, 1080/50p, 1080/60p fH 15.75/15.63 kHz, fV 50/60Hz (NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM)

Video signal

BNC x 1, 1.0 Vp-p BNC x 1, 1.0 Vp-p Mini DIN 4-pin x 1 Terminals VIDEO IN VIDEO OUT S-VIDEO IN RGB1/YPBPR IN

BNC x 5 RGB2 IN D-sub HD 15-pin x 1 DVI-D IN 24-pin x1, DVI 1.0 compliant, HDCP compatible

SERIAL IN SERIAL OUT D-sub 9-pin female x 2 (RS232C x 1, RS422 x 1) D-sub 9-pin male x 1 (RS422 x 1)

REMOTE 1 IN REMOTE 1 OUT REMOTE 2 IN

M3 jack x1 for wired remote control
M3 jack x1 for link control
D-sub 9-pin female x 1 for external control (parallel)
RJ-45 (10 Base-T/100 Base-TX) x 1, compatible with PJLink™
±40° (±22° with the ET-D75LE5, ±28° with the ET-D75LE6) LAN Keystone correction range

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

Installation Front/rear, ceiling/floor Power cord length

3.0 m (9.9") 220-240 V, 15 A, 50 / 60 Hz Power supply Power consumption 1,450 W (25 W in standby mode with fan stopped) Dimensions (W x H x D)

578 x 320 x 643 mm

(22-3/4" x 12-19/32" x 25-5/16") (without lens)

Approx. 32 kg (70.5 lbs) without lens

0 -45 °C (32 -113 °F)

*The highland mode is for use at high altitudes. When using the unit at altitudes of 1,400 to 2,700 meters, the ambient temperature is 0 °C-40 °C.

10-80% (no condensation)

Power cord, Wireless/wired remote control unit, Batteries for remote control (R6/LR6 type x 2)

Dimensions

Operating temperature

Operating humidity Supplied accessories

Weight*2

unit: inch [mm] (25-5/16")643 (1 3 5 5 5 10



Shape of the power outlet connection

• AC 220-240V. 16A



 AC 220-240V, 13A/15A



Projection distance

Diagonal	Throw distance												
image size (aspect raio: 16:9)	ET-D75LE6 0.9-1.1:1		ET-D75LE1 1.4-1.8:1		ET-D75LE2 1.8-2.8:1		ET-D75LE3 2.8-4.6:1		ET-D75LE4 4.6-7.4:1		ET-D75LE8 7.3-13.8:1		ET-D75LE5 0.7:1
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	fixed
70''	1,393 mm	1,662 mm	2,072 mm	2,768 mm	2,801 mm	4,215 mm	4,226 mm	7,094 mm	7,101 mm	11,374 mm	11,091 mm	21,142 mm	1,022 mm
	4.6'	5.4'	6.9'	9.0'	9.2'	13.8'	13.9'	23.2'	23.3'	37.3'	36.4'	69.3'	3.3'
100''	2,014 mm	2,406 mm	2,992 mm	3,998 mm	4,035 mm	6,067 mm	6,077 mm	10,187 mm	10,193 mm	16,292 mm	16,009 mm	30,358 mm	1,496 mm
	6.7'	7.8'	9.9'	13.1'	13.3'	19.9'	20.0'	33.4'	33.5'	53.4'	52.6'	99.5'	4.9'
150''	3,049 mm	3,646 mm	4,526 mm	6,047 mm	6,093 mm	9,153 mm	9,164 mm	1,5341 mm	1,5348 mm	24,488 mm	24,207 mm	45,717 mm	2,286 mm
	10.0'	11.9'	14.8'	19.8'	19.9'	30.0'	20.2'	50.3'	50.3'	80.3'	79.4'	149.9'	7.5'
200''	4,084 mm	4,886 mm	6,060 mm	8,096 mm	8,150 mm	12,240 mm	12,250 mm	20,496 mm	20,502 mm	32,685 mm	32,404 mm	61,076 mm	3,076 mm
	13.5'	16.0'	19.9'	26.5'	26.8'	40.1'	40.2'	67.2'	67.3'	107.2'	106.3'	200.3'	10.0'
300''	6,154 mm	7,366 mm	9,128 mm	12,194 mm	12,265 mm	18,413 mm	18,423 mm	30,805 mm	30,811 mm	49,078 mm	48,799 mm	91,794 mm	4,656 mm
	20.2'	24.1'	30.0'	40.0'	40.3'	60.3'	60.5'	101.0'	101.1'	160.9'	160.1'	301.0'	15.2'
400''	8,224 mm 27.0'	9,846 mm 32.2'	12,196 mm 40.1'	16,292 mm 53.4'	16,380 mm 53.8'	24,586 mm 80.6'	24,596 mm 80.7'	41,114 mm 134.8'	41,120 mm 134.9'	65,471 mm 214.7'	65,194 mm 213.9'	122,512 mm 401.8'	_
600''	12,364 mm 40.6'	14,806 mm 48.5'	18,332 mm 60.2'	24,488 mm 80.3'	24,610 mm 80.8'	36,932 mm 121.1'	36,942 mm 121.2'	61,732 mm 202.4'	61,738 mm 202.6'	98,257 mm 322.2'	97,984 mm 321.4'	183,948 mm 603.3'	_

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
- In the projector is placed in a box of enclosure, temperature of the air surfounding 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.
 If the projector is to be operated continuously 24 hours a day, use the multi-lamp optical system's alternating lamp operation (lamp changer) function. The projector can be operated continuously 24 hours a day in four-lamp operation mode, but it will automatically operate with three lamps for 8 hours of the 24 hours.
 The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.
 The lampth of time that it takes for the lamp to break or fail to illuminate varies greatly depending on
- 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.
 Because the ET-D75LE5 is a fixed short-throw lens, the lens shift function cannot be used with it.

Panasonic

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







Factories of Systems Business Group have received System certification. (Except for 3rd party's peripherals.)

Weights and dimensions shown are approximate. Specifications are subject to tempa without notice. This product may be subject to export regulations. VGA and XGA are trademarks of International Business Machines Corporation. All other trademarks are the property of their respective trademark owners. Projection images simulated. DP, DIP log and DIP Medallion loga or trademarks of traces instruments. The PJLink trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. (C) 2010 Panasonic Coporation All rights reserved.