Panasonic
ideas for life

PT-**DZ12000E**
3-chip DLP™ Projector

High-Resolution WUXGA Images and 12,000-Lumen Brightness for Clear, Big-Screen Images

A 3-Chip DLP™ Projector with WUXGA Resolution Goes Beyond Full-HD Expectations and Superb 12,000 Lumens of Brightness

High brightness:

12,000 lumens

High resolution:

WUXGA

1,920 x 1,200 pixels

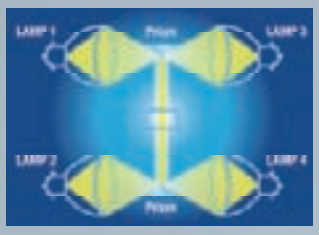
In response to the increasing trend toward large-screen image viewing, the PT-DZ12000E features native WUXGA resolution to completely cover full-HD specifications. It is further equipped with a Detail Clarity Processor based on Panasonic's imaging technology. Together with its superb brightness of 12,000 lumens, it ensures sharp, lifelike, large-screen images. This system projector also promises solid reliability, thanks to the combination of the DLP™ system, which is resistant to image degradation over time, and a 4-lamp optical system.

Incredible Brightness & High Picture Quality

New AC Lamp and Multi-Lamp System

Panasonic's innovative 4-lamp optical system uses newly developed 300-watt AC lamps to deliver remarkable 12,000-lumen brightness. The 4-lamp system means superb reliability too – the projector keeps working even if one lamp goes out. A full 24 hours of continuous operation is possible in Lamp Relay mode.

* 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.)



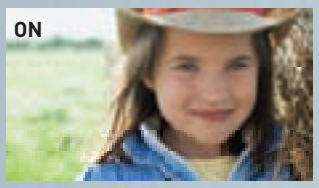
Lamp replacement cycle and brightness guidelines

Lamp mode	Light output (lumens)	Lamp replacement cycle (hours)
Four lamps	12,000	2,000
Three lamps	9,000	2,600
Two lamps	6,000	4,000
One lamp	3,000	8,000

Detail Clarity Processor

Exclusive to Panasonic, this new image-processing circuit analyzes 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.

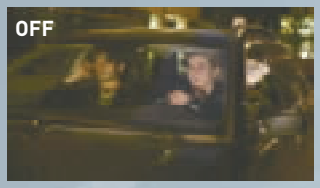


Detail Clarity Processor: Signal frequency is extracted realtime and necessary sharpness is applied at varying degrees for natural, life-like images.

* Images are simulated.

Dynamic Iris

Panasonic's Dynamic Iris uses a scene-linking aperture mechanism to achieve a remarkable 5,000:1 contrast without lowering the 12,000-lumen brightness. It helps reproduce deeper, richer blacks and gives images more detailed textures.



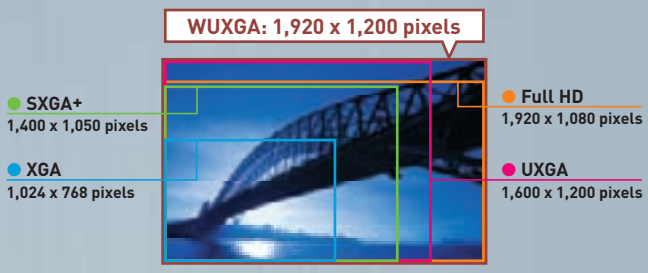
* Images are simulated.

Full 10-Bit Processing

Use of a full 10-bit picture processing system helps achieve smooth tonal expression. Complexions and other flesh tones look natural and true-to-life, with accurate gradation.

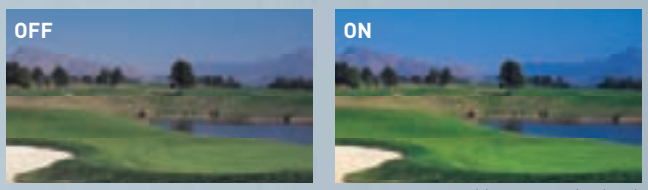
High-Resolution WUXGA Images

In response to the increasing popularity of wide-screen image viewing, the PT-DZ12000E features native WUXGA resolution to cover full-HD specifications. This brings you lifelike projection of intricate, highly detailed images.



System Daylight View

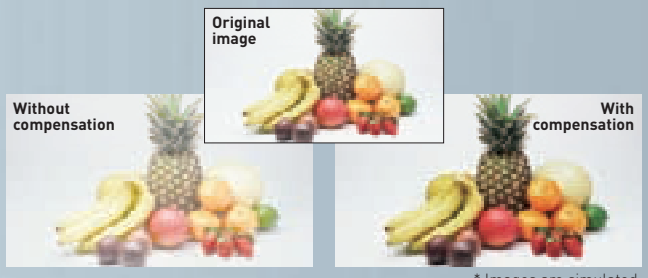
Screen visibility is lower when a projector is used during daylight hours or in a room with lights on. Panasonic's System Daylight View circuit compensates for these brighter environments, so that images are crisp, clear and easy to see no matter what the conditions are.



* Images are simulated.

3D Colour Management System

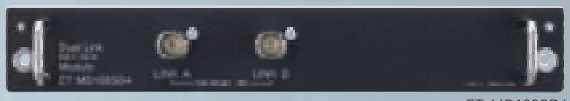
Some people like to view large-screen images from relatively close up to get the maximum viewing impact. But at close range, the colours perceived by the human eye tend to differ slightly from the original colours. The 3D Colour Management System solves this problem by enabling fine adjustment of colours so they appear faithful to the originals when projected onto a large screen.



* Images are simulated.

Dual Link HD-SDI Signal Support (Optional)

Just add an ET-MD100SD4 expansion board and the projector supports Dual Link HD-SDI signals. HD-SDI signals use two cables to achieve twice the colour resolution of the conventional single link system.

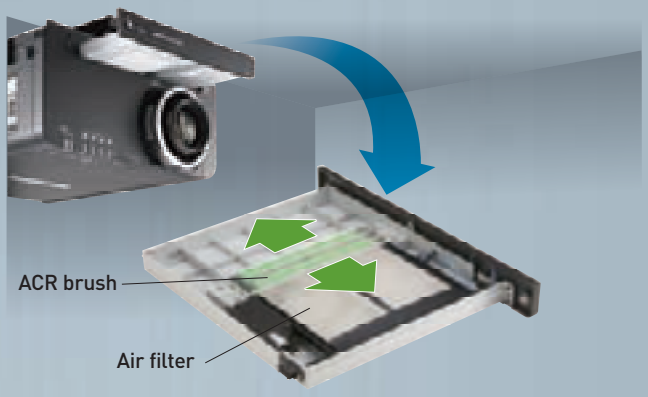


ET-MD100SD4

High Reliability & Stability

Auto Cleaning Robot

Panasonic's Auto Cleaning Robot automatically cleans the air filter to help keep the projector running smoothly. When the projector is switched on,*1 the robot uses a brush to clear away any dust adhering to the filter, helping to prevent clogs that can impair operation or cause malfunctions. The projector can be used for around 2,000 hours before the filter needs to be cleaned, making it a good choice for installation in tight spaces or for ceiling-mounted applications. Also, the Micro-Cut Air Filter traps particles as small as 10 microns.*2 This greatly reduces the amount of dust entering the projector, helping maintain high brightness and stable operation.



■ Smoke Cut Filter

The optional ET-SFD100 Smoke Cut Filter can be mounted in place of the Auto Cleaning Robot's tray. This optional smoke filter must be used when using the projector at events where smoke or fog is dispersed.

*1 Cleaning time can be set by a timer from 00:00 to 23:50 in 10-minute intervals, or controlled manually. The cleaning process is done only once per 24 hours. When the set time is reached, the cleaning process will begin if the projector is on or in cooling mode.

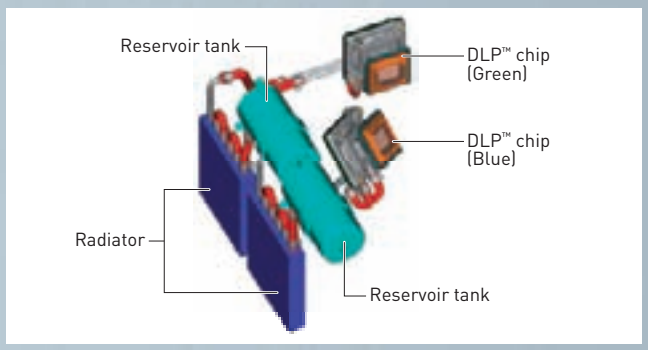
*2 Such as lint particles and pollen.

Liquid Cooling System

This advanced system uses a pump to circulate a cooling liquid behind the DLP™ chips to absorb heat. This Panasonic's technology is made possible by the reflective nature of the DLP™ system, which enables an airtight chip structure that minimizes image-quality loss due to dust adherence. In addition, it allows operation within a wide ambient temperature range of 0°C (32°F) to 45°C (113°F)*3 and reduces operating noise to 43 dB.*4

*3 The operating temperature range is 0°C (32°F) to 40°C (104°F) when used in High-Altitude mode (1,400 m (4,593 feet) to 2,700 m (8,858 feet)). Also, if the ambient temperature exceeds 40°C (104°F) (35°C (95°F) in High-Altitude mode) when using all four lamps, the light output may be reduced approximately 30% to protect the projector.

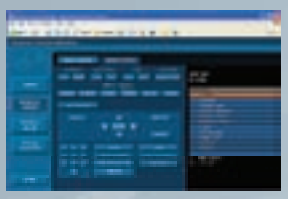
*4 Average value at time products are shipped from the factory, in accordance with JIS X 6911:2003 data projector specifications. Measurement methods and conditions are based on Article 2 of JIS X 6911:2003 data projector specifications.

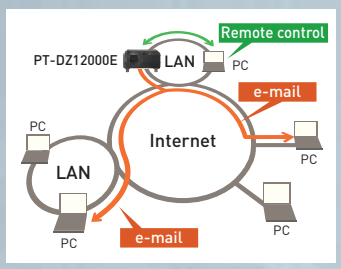


Network Function

■ Web Browser Control

The PT-DZ12000E 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.



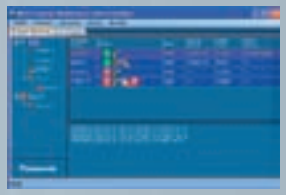


■ PJLink™ Compatibility

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

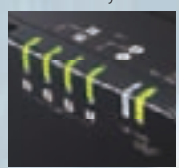
Panasonic's original "Multi Projector Monitoring & Control"* freeware allows the user to control and monitor multiple projectors at the same time via LAN. When a problem occurs, an alarm message is sent to the monitoring/controlling PC.



* 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 the PT-DZ12000E, the LEDs are visible from both front and top, so you can see it easily even if the unit is hung from the ceiling. Information on the error is also given in the on-screen display. A self-diagnosis function is also provided. Error codes displayed on the 3-digit, 7-segment LED on the side of the projector tell the operator what the problem is.



Small Size, Great Convenience

Despite its 12,000-lumen power, the projector is compact, weighs only 35 kg (77.1 lbs) and runs on ordinary household power. This makes it easy to add to existing facilities and suitable for use at concerts, performances, and other events.

Excellent System Functions

Geometric Adjustment

This function enables adjustment of images for projection onto spherical, cylindrical and other specially shaped screens. You can make the adjustment easily using just the remote control, with no external equipment needed. Used together with the multi-screen support system, the Geometric Adjustment expands your application possibilities, letting you create a wide range of image effects at concerts, performances and other special events.

Image showing various Geometric Adjustments

Lens Shift

The optical axis can be adjusted both vertically and horizontally by a remote control, giving you greater setup ease and flexibility.

A Wide Selection of Lenses

Choose from a wide lineup of lenses for your system, including short-throw, long-throw zoom and fixed-throw lenses for rear projection use. The additional lenses make it easy to adapt your projector to the installation site. The lens cover opens completely for easier mounting.

Flexible Mounting Angle

Flexible mounting allows a 360° vertical rotation range*. Dramatic showroom displays can be achieved by projecting directly downward or upward.

* A special fixture must be attached to the lamp unit when the projector is placed at an angle within ±45° (downward) of the vertical.

* The horizontal range is ±15°.

Universal Design

■ Easy Lamp Replacement

Removing a single screw is all it takes to open the rear cover. This makes it easy to replace a lamp while the projector is still in the mounting bracket – a big advantage in tight ceiling-mounted installations.

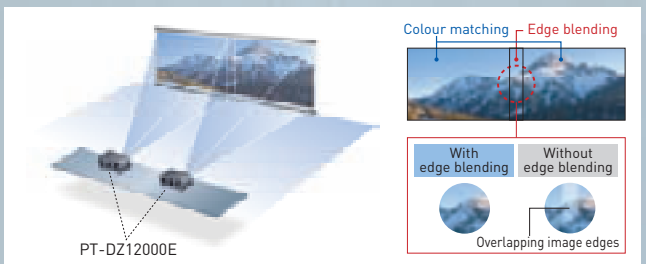
■ Remote Control with Blind Touch Operation

Contoured surfaces let you operate the control keys by touch. Connection terminals and controls are illuminated by LEDs, and the remote control is fully backlit for sure, easy operation in the dark. The wireless remote control has a range of 30 m (98.4 feets), so you can control the projector from a good distance.

■ 4 Direction Grip

Grooves on all four sides of the projector's bottom let you get a firm, comfortable grip on the unit so that it can be moved safely.

Built-in Multi-screen Support System



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

• 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 colours and minimizes colour variations.

• Multi-screen processor
The PT-DZ12000E can project large, multi-screen images without any additional equipment. Up to 100 units (10 x 10) can be edge-blended at a time.

* Image uniformity over the entire screen may be adversely affected by the type of screen used or the lamp mode selected. Also, due to differences in the manner in which the lamp brightness decreases with time, some fluctuation may appear in overall screen brightness. When this occurs, the unit must be readjusted, which is a service that is offered for a fee.
For details, please contact the store where you purchased the product, or a sales representative.

Multiple Terminal Including DVI-D and LAN Slot

The PT-DZ12000E comes equipped with DVI-D and LAN (PJ-Link™) slots. It also features an array of terminals, including two RGB inputs and D-sub HD 15-pin, a 5-BNC connector, serial in/out, S-video input, two remote inputs, and one remote out. In addition to offering DVI-D control, the PT-DZ12000E is HDCP*-compliant and thus meets a broad range of projection needs.

* High-Bandwidth Digital Content Protection

Other Features

- Mechanical lens shutter
- Picture in picture (The picture in picture function cannot be used with some input signals and selected inputs.)
- Anti-theft features with chain opening
- ID assignment for up to 64 units
- Built-in test pattern
- Selectable 9-language on-screen menu (English, German, French, Spanish, Italian, Russian, Japanese, Chinese, Korean)

Optional accessories

Lens

Zoom lens
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)

Fixed focus lens
ET-D75LE5 (0.7:1)

ET-D75LE1

Lamp

Replacement lamp unit
ET-LAD12K
ET-LAD12KF (four pack)

Input signal board

SD-SDI input signal board
ET-MD77SD1

HD/SD-SDI input signal board
ET-MD77SD3

Dual link HD/HD-SDI input signal board
ET-MD100SD4

DVI-D input signal board
ET-MD77DV

Smoke Cut Filter

ET-SFD100

Frame

ET-PFD100

Carrying handle

ET-HAD100

Ceiling mount bracket

High-ceiling mount bracket **ET-PKD100H**

Low-ceiling mount bracket **ET-PKD100S**

ET-PKD100H

ET-PKD100S

Specifications

Power supply		220–240 V AC 16–9A, 50Hz/60Hz
Power consumption		1,500 W (15 W in standby mode with fan stopped)
DLP™ chip	Panel size	0.96" diagonal (16:10 aspect ratio)
	Display method	DLP™ chip x 3 (R, G, B), DLP™ projection system
	Pixels	2,304,000 (1,920 x 1,200) x 3, total of 6,912,000 pixels
Lens		Optional powered zoom/focus lenses
Lamp		300 W UHM lamp x 4 (four lamp system)
Screen size		70 - 600 inches,16:10 aspect ratio (70-300 inches, 16:9 aspect ratio with the ET-D75LE5)
Brightness*1		12,000 lumens (four-lamp operation mode)
Contrast ratio*1		5,000:1 (full on/full off, in Dynamic iris 3 mode)
Resolution		1,920 x 1,200 pixels
RGB input scanning frequency		fH 15-100 kHz, fV 24-120 Hz Dot clock 20-162 MHz
Component signal		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
Video signal		fH 15.75/15.63 kHz, fV 50/60Hz (NTSC,NTSC4.43,PAL,PAL60,PAL-N,PAL-M,SECAM)
Lens shift		Vertical: ±55% (±44% with the ET-D75LE6) (powered) Horizontal: ±20% (±15% with the ET-D75LE6) (powered)
Keystone correction range		Vertical: ±40° (±22° with the ET-D75LE5, ±28° with the ET-D75LE6), Using Geometric Adjustment: Vertical ±10°, Horizontal ±15°
Terminals	DVI-D IN	DVI-D 24-pin x 1, DVI 1.0 compliant, compatible with HDCP, single link 480p, 576p, 1080/60i, 1080/50i, 1080/24p, 1080/24sF, 1080/25p, 1080/30p, 1080/60p, 1080/50p, 720/60p, 720/50p VGA (640 x 480) – WUXGA*2 (1,920 x 1,200), compatible with non-interlaced signals only, Dot clock: 25–162 MHz
	RGB1/YPBPR IN	BNC x 5
	RGB2 IN	D-sub HD 15-pin x 1
	VIDEO IN	BNC x 1, 1.0 Vp-p
	VIDEO OUT	BNC x 1, 1.0 Vp-p
	S-VIDEO IN	Mini DIN 4-pin x 1
	LAN	RJ-45 (10 Base-T/100 Base-TX) x 1, compatible with PJLink™
	SERIAL IN	D-sub 9-pin female x 2 (RS232C x 1, RS422 x 1)
	SERIAL OUT	D-sub 9-pin male x 1 (RS422 x 1)
	REMOTE 1 IN	M3 jack x1 for wired remote control
	REMOTE 1 OUT	M3 jack x1 for link control
	REMOTE 2 IN	D-sub 9-pin female x 1 for external control (parallel)
Optional board slot	With ET-MD77SD1 installed*3	SERIAL IN: BNC x 1, SD-SDI signal (YCBCR 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i SERIAL OUT: BNC x 1, active through
	With ET-MD77SD3 installed*3	SERIAL IN: BNC x 1, SD-SDI signal (YCBCR 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i Single-link HD-SDI signal (YCBCR 4:2:2 10-bit): SMPTE 292M compiant: 720/50p, 720/60p, 1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p SERIAL OUT: BNC x 1, active through
	With ET-MD100SD4 installed	Link A/Link B IN: BNC x 1 for each, SD-SDI signal (YCBCR 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i Single-link HD-SDI signal (YCBCR 4:2:2 10-bit): SMPTE 292M compiant: 720/50p, 720/60p, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p Dual-link HD-SDI signal (RGB 4:4:4 12-bit/10-bit): SMPTE 372M compiant: 1920 x 1080/50i, 1920 x 1080/60i, 1920 x 1080/25p, 1920 x 1080/24p, 1920 x 1080/24sF, 1920 x 1080/30p Dual-link HD-SDI signal (X'Y'Z' 4:4:4 12-bit): 2048 x 1080/24p, 2048 x 1080/24sF
Optional board slot	With ET-MD77DV installed	Specifications are the same as those for the DVI-D IN terminal on the main unit.
Installation		Front/rear, ceiling/floor
Power cord length		3.0 m (9.9")
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)
Weight*4		Approx. 35 kg (77.1 lbs) without lens
Operating temperature		0 -45 °C (32 -113 °F)*5
Operating humidity		10-80% (no condensation)
Supplied accessories		Power cord, Wireless/wired remote control unit, Batteries for remote control (R6/LR6 type x 2), Eye bolt x4, Wire rope

*1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
*2 Only when using VESA CVT-RB(Reduced Blanking) signals.
*3 The LAN terminal on each board, when mounted, cannot be used because the LAN terminal on the main unit has priority.
*4 Average value. May differ depending on models.
*5 The operating temperature range is 0°C (32°F) to 40°C (104°F) when used in High-Altitude mode (1,400 m [4,593 feet] to 2,700 m [8,858 feet]). Also, if the ambient temperature exceeds 40°C (104°F) (35°C [95°F] in High-Altitude mode) when using all four lamps, the light output may be reduced approximately 30% to protect the projector.

Ecological-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-DZ12000E reflects the following ecological considerations.

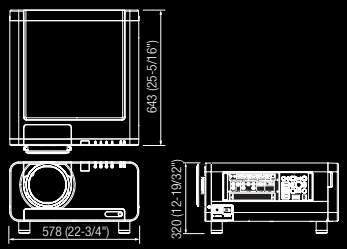
- Lead-free solder is used to mount components to the printed circuit boards.
- Lamp power switching further reduces power consumption.
- Auto Power Save activates standby mode when no signal is input.

Made in Japan

PT-DZ12000E projector is carefully manufactured at the Panasonic factory in Japan under strict quality control. This is another very important advantage of Panasonic projectors.

Dimensions

unit: mm (inch)



Projection distance

Throw distance

Diagonal image size (aspect raio: 16:10)	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"	1,353 mm 4.4'	1,615 mm 5.3'	2,013 mm 6.6'	2,691 mm 8.8'	2,723 mm 8.9'	4,098 mm 13.4'	4,108 mm 13.5'	6,900 mm 22.6'	6,906 mm 22.7'	11,064 mm 36.3'	10,780 mm 35.4'	20,561 mm 67.5'	992 mm 3.3'
100"	1,957 mm 6.4'	2,339 mm 7.7'	2,908 mm 9.5'	3,887 mm 12.8'	3,924 mm 12.9'	5,899 mm 19.4'	5,910 mm 19.4'	9,909 mm 32.5'	9,915 mm 32.5'	15,849 mm 52.0'	15,565 mm 51.1'	29,527 mm 96.9'	1,453 mm 4.8'
150"	2,964 mm 9.7'	3,546 mm 11.6'	4,401 mm 14.4'	5,881 mm 19.3'	5,926 mm 19.4'	8,902 mm 29.2'	8,913 mm 29.2'	14,924 mm 49.0'	14,930 mm 49.0'	23,824 mm 78.2'	23,541 mm 77.2'	44,471 mm 145.9'	2,222 mm 7.3'
200"	3,971 mm 13.0'	4,752 mm 15.6'	5,893 mm 19.3'	7,875 mm 25.8'	7,928 mm 26.0'	11,905 mm 39.1'	11,916 mm 39.1'	19,939 mm 65.4'	19,945 mm 65.4'	31,799 mm 104.3'	31,517 mm 103.4'	59,414 mm 194.9'	2,991 mm 9.8'
300"	5,985 mm 19.6'	7,165 mm 23.5'	8,877 mm 29.1'	11,862 mm 38.9'	11,932 mm 39.1'	17,911 mm 58.8'	17,922 mm 58.8'	29,970 mm 98.3'	29,975 mm 98.3'	47,749 mm 156.7'	47,468 mm 155.7'	89,301 mm 293.0'	4,528 mm 14.9'
400"	7999 mm 26.2'	9,578 mm 31.4'	11,862 mm 38.9'	15,850 mm 52.3'	15,936 mm 52.3'	23,917 mm 78.5'	23,928 mm 78.5'	40,000 mm 131.2'	40,006 mm 131.2'	63,699 mm 209.0'	63,420 mm 208.1'	119,188 mm 391.0'	—
600"	12,027 mm 39.5'	14,404 mm 47.3'	17,831 mm 58.5'	23,825 mm 78.1'	23,944 mm 78.6'	35,929 mm 117.9'	35,939 mm 117.9'	60,061 mm 197.1'	60,067 mm 197.1'	95,599 mm 313.6'	95,323 mm 312.8'	178,962 mm 587.1'	—

Throw distance

Diagonal 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 4.6'	1,662 mm 5.4'	2,072 mm 6.9'	2,768 mm 9.0'	2,801 mm 9.2'	4,215 mm 13.8'	4,226 mm 13.9'	7,094 mm 23.2'	7,101 mm 23.3'	11,374 mm 37.3'	11,091 mm 36.4'	21,142 mm 69.3'	1,022 mm 3.3'
100"	2,014 mm 6.7'	2,406 mm 7.8'	2,992 mm 9.9'	3,998 mm 13.1'	4,035 mm 13.3'	6,067 mm 19.9'	6,077 mm 20.0'	10,187 mm 33.4'	10,193 mm 33.5'	16,292 mm 53.4'	16,009 mm 52.6'	30,358 mm 99.5'	1,496 mm 4.9'
150"	3,049 mm 10.0'	3,646 mm 11.9'	4,526 mm 14.8'	6,047 mm 19.8'	6,093 mm 19.9'	9,153 mm 30.0'	9,164 mm 20.2'	1,5341 mm 50.3'	1,5348 mm 50.3'	24,488 mm 80.3'	24,207 mm 79.4'	45,717 mm 149.9'	2,286 mm 7.5'
200"	4,084 mm 13.5'	4,886 mm 16.0'	6,060 mm 19.9'	8,096 mm 26.5'	8,150 mm 26.8'	12,240 mm 40.1'	12,250 mm 40.2'	20,496 mm 67.2'	20,502 mm 67.3'	32,685 mm 107.2'	32,404 mm 106.3'	61,076 mm 200.3'	3,076 mm 10.0'
300"	6,154 mm 20.2'	7,366 mm 24.1'	9,128 mm 30.0'	12,194 mm 40.0'	12,265 mm 40.3'	18,413 mm 60.3'	18,423 mm 60.5'	30,805 mm 101.0'	30,811 mm 101.1'	49,078 mm 160.9'	48,799 mm 160.1'	91,794 mm 301.0'	4,656 mm 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 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.
4. 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.
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. Because the ET-D75LE5 is a fixed short-throw lens, the lens shift function cannot be used with it.
7. Due to natural characteristics of lamps, screen brightness may vary (flicker). This is not an indication of faulty lamp performance.

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

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

All information included here is valid as of February 2010.

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