# Panasonic ideas for life

PT-DZ12000E



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









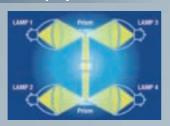
## **Panasonic Technologies Assure Spectacular Image Performance**

# 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. Ilt is recommended that the mechanical shutter be used to turn images off for a short period.]

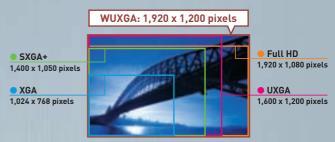


Lamp replacement cycle and brightness

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								

#### **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.



#### **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.

#### 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.

#### **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

## **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

#### 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.

### **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.



FT-MD100SD4



## A Host of Functions to Assure Stable, Long-Time Operation

# 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 choicer 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.



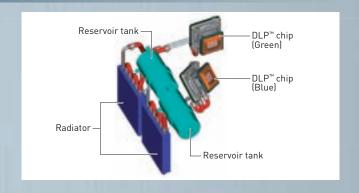


- \*1 Cleaning time can be set by a timer from 00:00 to 23:50 in 10-minute intervals, or controlled manually. The cleaning process is done only once per 24 hours. When the set time is reached, the cleaning process will begin if the projector is on or in cooling mode.
- \*2 Such as lint particles and pollen.

#### **Liquid Cooling System**

This advanced system uses a pump to circulate a cooling liquid behind the DLP $^{\text{\tiny{M}}}$  chips to absorb heat. This Panasonic's technology is made possible by the reflective nature of the DLP $^{\text{\tiny{M}}}$  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.



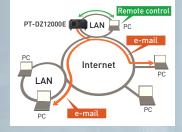
#### **Network Function**

#### **■** 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<sup>™</sup> 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.



#### 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.



## Adapts to a Variety of Environments

# 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.

#### 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.

#### 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



#### **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.

#### **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.

#### **Built-in Multi-screen Support System**



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.

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.

The PT-DZ12000E can project large, multi-screen images without any additional equipment. Up to 100 units  $(10 \times 10)$  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

Lamp

Replacement lamp unit

•Selectable 9-language on-screen menu (English, German, French, Spanish, Italian, Russian, Japanese, Chinese, Korean)

#### Optional accessories Input signal board Frame SD-SDI input signal board **ET-MD77SD1** ET-PFD100 Zoom tens 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) 1 7 7 10 1 HD/SD-SDI input signal board **ET-MD77SD3** Fixed focus lens ET-D75LE5 (0.7:1) 1 - F F D L Carrying handle ET-HAD100 Dual link HD/HD-SDI input Signal board ET-MD100SD4 ET-D75LE1

DVI-D input signal board **ET-MD77DV** .







ET-PKD100H

Specific	auviis								
Power supply		220-240 V AC 16-9A, 50Hz/60Hz							
Power consumption	on	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							
ens		Optional powered zoom/focus lenses							
amp		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)							
3riahtness*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 scannir	na frequency	fH 15-100 kHz, fV 24-120 Hz							
ioo iiipat ooaiiiii	ig iroquonoy	Dot clock 20-162 MHz							
Component signal		480i, 480p, 576i, 576p, 720/60p, 720/50p, 1035/60i, 1080/25p, 1080/24p,							
pononcoigna		1080/24sF, 1080/30p, 1080/60i, 1080/50i, 1080/50p, 1080/60p							
/ideo signal		fн 15.75/15.63 kHz, fV 50/60Hz							
		(NTSC,NTSC4.43,PAL,PAL60,PAL-N,PAL-M,SECAM)							
ens shift		Vertical: ±55% (±44% with the ET-D75LE6) (powered)							
20110 011112		Horizontal: ±20% (±15% with the ET-D75LE6) (powered)							
Kevstone correction	on range	Vertical: ±40° (±22° with the ET-D75LE5, ±28° with the ET-D75LE6),							
10,010110 00110011	on rango	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/YPsPs IN	BNC x 5							
	RGB2 IN	D-sub HD 15-pin x 1							
	VIDEO IN	BNC x 1. 1.0 Vp-p							
	VIDEO IN	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 <sup>TM</sup>							
	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 iack 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)							
	With ET-MD77SD1	SERIAL IN: BNC x 1, SD-SDI signal (YC <sub>8</sub> C <sub>8</sub> 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i							
	installed*3	SERIAL OUT: BNC x 1, active through							
	With ET-MD77SD3	SERIAL IN: BNC x 1, SD-SDI signal (YC <sub>8</sub> C <sub>8</sub> 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i							
	installed*3	Single-link HD-SDI signal (YC <sub>6</sub> C <sub>6</sub> 4:2:2 10-bit): SMPTE 292M compiant: 720/50p, 720/60p,							
	motanoa	1035/60i, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p							
		SERIAL OUT: BNC x 1, active through							
	With ET-MD100SD4	Link A/Link B IN: BNC x 1 for each, SD-SDI signal (YC <sub>8</sub> C <sub>8</sub> 4:2:2 10-bit): SMPTE 259M compliant: 480i, 576i							
	installed	Single-link HD-SDI signal (YC <sub>6</sub> C <sub>6</sub> 4:2:2 10-bit): SMPTE 292M compiant: 720/50p, 720/60p, 1080/50i.							
	motanica	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'7' 4:4·4 12-bit): 2048 x 1080/24p, 1920 x 1080/24sF							

Optional board slot With ET-MD77DV	Specifications are the same as those for the DVI-D IN terminal on the main unit.
installed	
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,
	Ratteries for remote control (2)/ AA battery v2). Fue holt v4. Wire rope

"Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

"2 Only when using VESA CVT-BB(Reduced Blanking) signals.

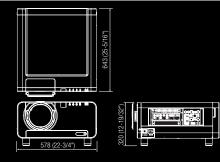
"3 The LAN terminal on each board, when mounted, cannot be used because the LAN terminal on the main unit has priority.

"4 Average value. May differ depending or models.

"5 The operating temperature range is 0°C (32°P) to 40°C (104°P) 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.

#### **Dimensions**

unit: mm (inch)



#### **Projection distance**

							Throw distance						ET-D75LE5
Diagonal image size		ET-D75LE6		ET-D75LE1		ET-D75LE2		ET-D75LE3		ET-D75LE4		ET-D75LE8	
(aspect raio: 16:10)		0.9-1.1:1		1.4-1.8:1		1.8-2.8:1		2.8-4.6:1		4.6-7.4:1		7.3-13.8:1	
(dopost rais: ro.ro)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min 7.0	max.	0.7:1 fixed
70"	1,353 mm	1,615 mm	2,013 mm	2,691 mm	2,723 mm	4,098 mm	4,108 mm	6,900 mm	6,906 mm	11,064 mm	10,780 mm	20,561 mm	992 mm
	4.4'	5.3'	6.6'	8.8'	8.9'	13,4'	13.5'	22,6'	22.7'	36.3'	35.4'	67.5'	3.3'
100"	1,957 mm	2,339 mm	2,908 mm	3,887 mm	3,924 mm	5,899 mm	5,910 mm	9,909 mm	9,915 mm	15,849 mm	15,565 mm	29,527 mm	1,453 mm
	6.4'	7.7'	9.5'	12.8'	12.9'	19.4'	19.4'	32.5'	32.5'	52.0'	51.1'	96.9'	4.8'
150"	2,964 mm	3,546 mm	4,401 mm	5,881 mm	5,926 mm	8,902 mm	8,913 mm	14,924 mm	14,930 mm	23,824 mm	23,541 mm	44,471 mm	2,222 mm
	9.7'	11.6'	14.4'	19.3'	19.4'	29.2'	29.2'	49.0'	49.0'	78.2'	77.2'	145.9'	7.3'
200"	3,971 mm	4,752 mm	5,893 mm	7,875 mm	7,928 mm	11,905 mm	11,916 mm	19,939 mm	19,945 mm	31,799 mm	31,517 mm	59,414 mm	2,991 mm
	13.0'	15.6'	19.3'	25.8'	26.0'	39.1	39.1'	65.4'	65.4'	104.3'	103.4'	194.9'	9.8'
300"	5,985 mm	7,165 mm	8,877 mm	11,862 mm	11,932 mm	17,911 mm	17,922 mm	29,970 mm	29,975 mm	47,749 mm	47,468 mm	89,301 mm	4,528 mm
	19.6'	23.5'	29.1'	38.9'	39.1'	58.8'	58.8'	98.3'	98.3'	156.7'	155.7'	293.0'	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 ET-D75LE6 (aspect raio: 16:9) 0.9-1.1:1		ET-D75LE1		ET-D75LE2		ET-D75LE3		ET-D75LE4		ET-D75LE8		ET-D75LE5	
(aspect raio: 16:9)			1.4-1.8:1		1.8-2.8:1		2.8-4.6:1		4.6-7.4:1		7.3-13.8:1		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
70	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
100	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
150	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
200	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
300	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	9,846 mm	12,196 mm	16,292 mm	16,380 mm	24,586 mm	24,596 mm	41,114 mm	41,120 mm	65,471 mm	65,194 mm	122,512 mm	
400	27.0'	32.2'	40.1'	53.4'	53.8'	80.6'	80.7'	134.8'	134.9'	214.7'	213.9'	401.8'	
600"	12,364 mm	14,806 mm	18,332 mm	24,488 mm	24,610 mm	36,932 mm	36,942 mm	61,732 mm	61,738 mm	98,257 mm	97,984 mm	183,948 mm	
600	40.6'	48.5'	60.2'	80.3'	80.8	121.1'	121.2'	202.4'	202.6'	322.2'	321.4'	603.3'	

#### **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 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.

  On ord 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
- 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.

# **Panasonic**

For more information about Panasonic projector — >>> 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. VGA and XGA are trademarks of International Business Machines Corporation.

All other trademarks or the property of their respective trademark or many projection images simulated.

DLP, DLP logo and DLP Medallion logo are trademarks or registered trademarks of Taxos Instruments.

The PJLink trademark is an application trademark in Japan, the United States, and other countries are diversion trademarks.

countries and regions or registered trademarks
(C) 2008 Panasonic Projector Systems Company is a Unit of Panasonic Corporation of North America. All rights reserved
(C) 2008 Panasonic Corporation all rights reserved
(C) 2008 Panasonic Corporation All rights reserved