

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.

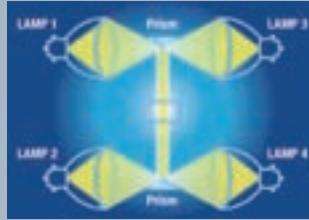




Incredible Brightness & High Picture Quality

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.



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

* 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.)

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.



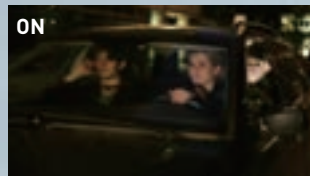
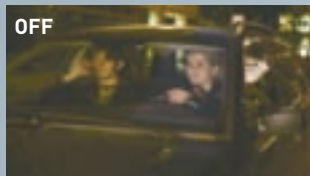
Conventional sharpness control: Sharpness is applied uniformly, which can cause a halo or ring effect.

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.

WUXGA: 1,920 x 1,200 pixels



SXGA+
1,400 x 1,050 pixels

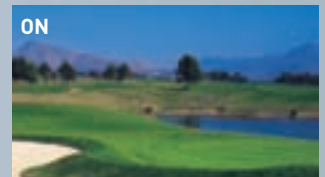
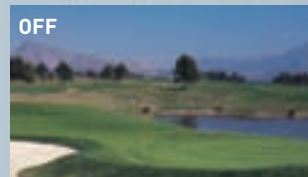
XGA
1,024 x 768 pixels

Full HD
1,920 x 1,080 pixels

UXGA
1,600 x 1,200 pixels

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

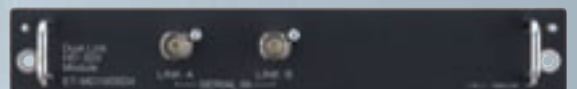
Some people like to view large-screen images from relatively close up to get the maximum viewing impact. But at close range, the colours perceived by the human eye tend to differ slightly from the original colours. The 3D Colour Management System solves this problem by enabling fine adjustment of colours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

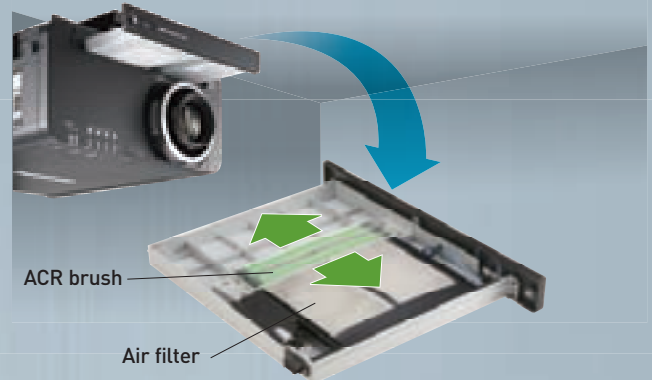


A Host of Functions to Assure Stable, Long-Time Operation

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 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

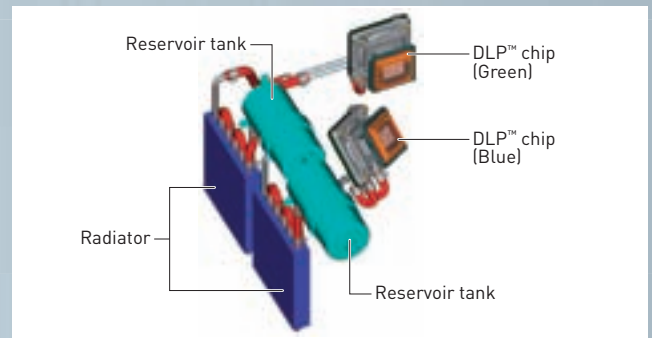
The optional ET-SFD100 Smoke Cut Filter can be mounted in place of the Auto Cleaning Robot's tray. This optional smoke filter must be used when using the projector at events where smoke or fog is dispersed.



*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



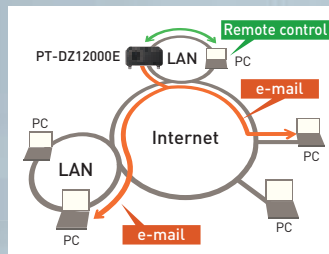
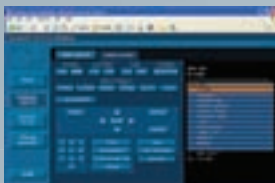
*3 The operating temperature range is 0°C (32°F) to 40°C (104°F) when used in High-Altitude mode (1,400 m [4,593 feet] to 2,700 m [8,858 feet]). Also, if the ambient temperature exceeds 40°C (104°F) (35°C [95°F] in High-Altitude mode) when using all four lamps, the light output may be reduced approximately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



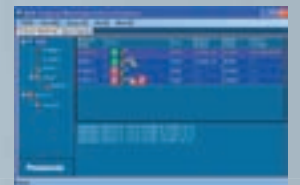
PJLink™ Compatibility

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.



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 feet), so you can control the projector from a good distance.



■ 4 Direction Grip

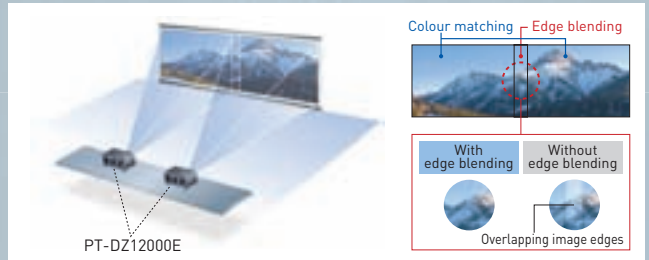
Grooves on all four sides of the projector's bottom let you get a firm, comfortable grip on the unit so that it can be moved safely.

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



• 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.

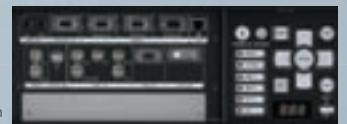
• Multi-screen processor

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	Input signal board	Frame
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)	SD-SDI input signal board ET-MD77SD1	ET-PFD100
	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	
Fixed focus lens ET-D75LE5 (0.7:1)		
		Carrying handle ET-HAD100
		Ceiling mount bracket High-ceiling mount bracket ET-PKD100H Low-ceiling mount bracket ET-PKD100S
Lamp Replacement lamp unit ET-LAD12K ET-LAD12KF (four pack)		
	Smoke Cut Filter ET-SFD100	
		ET-PKD100S

