Panasonic

PT-DZ16K
3-Chip DLP™ Projector

Long-Lasting 16,000 lm of Brightness
and
Abundant Features in a Compact Body
VERSATILE DESIGN FOR LARGE-VENUE APPLICATIONS

The Panasonic PT-DZ16K is a 1080p-compatible, high-performance, Full-HD projector with excellent durability and low TCO (Total Cost of Ownership). It is ideal for a wide range of applications requiring high brightness and long-term operation, such as museums, entertainment facilities, churches, and large auditoriums.

SPLENDID IMAGES FROM A COMPACT BODY

Incredible 16,000 lm of Brightness
Panasonic’s unique quad-lamp system, with its high-power 420 W UHM lamps, has helped to make the body extremely compact while providing an astounding 16,000 lm of brightness.

<table>
<thead>
<tr>
<th>Lamp mode</th>
<th>Brightness (lumens)</th>
<th>Lamp replacement cycle (hours)*1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quad</td>
<td>16,000</td>
<td>3,000</td>
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<tr>
<td>Triple</td>
<td>12,000</td>
<td>4,000</td>
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<tr>
<td>Dual</td>
<td>8,000</td>
<td>6,000</td>
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<tr>
<td>Single</td>
<td>4,000</td>
<td>12,000</td>
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</table>

Dynamic Iris for a High 10,000:1*2 Contrast Ratio
Panasonic’s Dynamic Iris uses a scene-linking aperture mechanism to achieve a remarkable 10,000:1*2 contrast without lowering its high brightness. This helps to reproduce deeper, richer blacks, and provides images with more detailed textures.

Detail Clarity Processor 3 Gives Natural Clarity to Even the Finest Details
This unique Panasonic circuit optimizes the sharpness of each image, based on the super-high-, high-, medium-, and low-frequency components of the extracted image information. The resulting images have more natural, lifelike expression.

Waveform Monitor Function
When the output level of the source device fluctuates due to the performance of the device or its cable connections, the original black and white levels of the image content cannot be reproduced correctly. With the PT-DZ16K you can view the waveforms on the screen and adjust the settings either automatically or manually.

Advanced Technologies for Excellent Image Quality
- 3D color management system
- Full 10-bit image processing
- Progressive cinema scan (3:2 pulldown)
- Dynamic sharpness control
- Digital noise reduction
- IP conversion
- AI scene control
- 2:2 pulldown mode
- sRGB compatibility
- Fine-adjustable color temperature

HIGH RELIABILITY AND LOW TCO WITH EASY MAINTENANCE

Low TCO with up to 3,000-Hours*3 Lamp Replacement Cycle
The PT-DZ16K lowers the total cost of ownership (TCO) because it has a lamp replacement cycle of up to 3,000 hours.*3

Environmental Friendly Design
The PT-DZ16K’s environmentally friendly design includes a low power consumption of 2,150 W.

Four-Lamp System Enables Stable, Extended Operation
The four-lamp system allows the projector to keep working even if a lamp should fail. The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection. Quad, Triple, Dual and Single Lamp modes can be used.

Easy Lamp Replacement
For easier maintenance, you can replace the lamp from the rear. This makes it easy to replace a lamp while the projector is still in the mounting bracket or dual stacked.

Liquid Cooling System Attains a High Level of Reliability
This liquid cooling system directly cools the DLP™ chip to improve performance and enable operation up to 45 °C (113 °F).*4 It allows quiet (48 dB) and versatile use while stabilizing performance. It also helps to make the body compact.

And the system is hermetically sealed, so you don’t need to replenish the liquid.

Eco Filter That Needs No Maintenance for up to 12,000 Hours*4
The Eco Filter has an electrostatic Micro Cut Filter that uses an ion effect to collect minute dust particles. It combines with the dust-resistant cabinet to enable long-term use even under harsh conditions. Its maintenance cycle of up to 12,000 hours reduces hassle, and the environmental design lets you wash the filter with water and reuse it.*5

SYSTEM AND INSTALLATION FLEXIBILITY WITH DIVERSE FUNCTIONS

Flexible Installation
The wide adjustment range of the powered horizontal/vertical lens shift function can be easily adjusted with the remote control. The unit can also be rotated 360° vertically, to accommodate various installation conditions. The lens-centered design contributes to easy installation.

Multi-Screen Support System Seamlessly Connects Multiple Screens
- Edge Blending: The edges of adjacent screens can be blended and their luminance controlled.
- Color Matching: This function corrects for slight variations in the color reproduction range of individual projectors. The PC software assures easy, accurate control.
- Multi-Screen Processor: The PT-DZ16K can project large, multi-screen images without any additional equipment. Up to 100 units (10 × 10) can be edge-blended at a time.

1 The usage environment affects the lamp replacement cycle.*23
2 The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the fan control is set to HIGH ALTITUDE mode (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). When the projector is used with the ET-SF510 Smoke Cut Filter, the operating temperature range is 0 °C to 35 °C (32 °F to 95 °F), and the projector cannot be used in places at high altitude.
3 When washing with water, please follow the procedures listed in the operating instructions. Also, we recommend replacing the filter with a new one after it has been washed and reused twice. If the filter is not sufficiently clean after washing, replace it with a new one.
Multi-Unit Brightness Control
This function automatically corrects the brightness fluctuations that occur over time in the individual projectors of a multi-screen system. Up to eight projectors can be controlled by connecting them to each other via a hub, and this can be increased to a maximum of 2,048 projectors by using “Multi Projector Monitoring & Control Software.”

Geometric Adjustment for Specially Shaped Screens
This function adjusts the image for projection onto spherical, cylindrical and other specially shaped screens. You can make the adjustment easily using only the remote control, with no external equipment needed.

Multiple Terminals
The PT-DZ16K has a wide array of terminals, including 3G/HD/SD-SDI, DVI-D, HDMI and two RGB inputs.

Multi Projector Monitoring & Control Software
Panasonic’s original freeware “Multi Projector Monitoring & Control Software” lets you control and monitor multiple projectors simultaneously over a wired LAN. If a problem occurs, an alarm message is sent to the monitoring/PC.

Other Valuable Features
• DICOM simulation mode® - Mechanical lens shutter with fade in/out effect  • P-in-P function® - 30 m (98.4 ft) long-range wireless remote control with LED backlight  • ID assignment for up to 64 units  • Control device setup function - Built-in test pattern  • Selectable 10-language on-screen menu (English, German, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese, and Korean)  • RoHS Directive compliant  • Anti-theft features with chain opening

Ecology-Conscious Design
• No halogenated flame retardants are used in the cabinet.
• Lead-free solder is used to mount components to the printed circuit boards.  • Stand-by power consumption of only 0.3 W®.  • Auto Power Save activates standby mode when no signal is input.

Each PT-DZ16K is carefully manufactured at a Panasonic factory in Japan, under strict quality control. This is another, very important advantage of a Panasonic projector.

*6 This product is not a medical instrument. Do not use it for medical diagnosis.  *7 This function cannot be used with some input signals and selected inputs.  *8 With the STANDBY mode set to COO. When the STANDBY mode is set to COO, network functions such as power on the LAN will not operate. Also, only certain commands can be received for external control using the serial terminal.
Specifications

Model: PT-DZ16K

Power supply: 200–240 V AC, 50/60 Hz (Max current requirements: 11.5 A @ 220 V)

Power consumption: 2.150 W (with stand-by mode set to eco mode, 9 W with stand-by mode set to normal mode)

DLP™ chip: Panel size 24.1 mm (0.95 in) diagonal (16:9 aspect ratio)
Pixels: 1,920 × 1,080 pixels

Lamp: Optional powered zoom and fixed-focus lenses

Lamp: 420 W UHM lamp × 4, replacement cycle of up to 3,000 hours*1

Screen size (diagonal): 7.8–25.4 m (25–80 ft), 1.78–15.24 m (70–600 in) with the ET-D75LE6, 16:9 aspect ratio

Brightness*2: 16,000 lm (four-lamp)

Center-to-corner uniformity*2: 90%

Contrast*2: 10,000:1 (full on/off), with dynamic iris set to “3”

Resolution: 1,920 × 1,080 pixels

Scanning frequency: 60/50 Hz

Screen size: 24.1 mm (0.95 in) diagonal (16:9 aspect ratio)

Screen positioning: Ceiling/floor, front/rear

Terminal: HDMI/DVI-D, DVI-D 24-pin, D-sub HD 15-pin (female), D-sub 9-pin (female)

Network functions: Power on over the LAN, network control, PJLink™

Pixel repetition signals only. (dot clock: 27.0 MHz)

Operating environment: Operating temperature: 0 °C to 40 °C (32 °F to 104 °F) when the FAN CONTROL is set to HIGH ALTITUDE MODE (for altitudes from 1,400 m to 2,700 m (4,921 ft to 8,858 ft) above sea level). When the projector is used with the ET-SFR10 Smoke Cut Filter, the operating temperature range is 0 °C to 35 °C (32 °F to 95 °F), and the projector cannot be used in places at high altitude.

Camera materials: Molded plastic

Dimensions (W × H × D): 620 × 291 × 311.2 mm (24-1/32 × 12-1/8 × 12-5/32 in) (optional lens not included)

Weight*: Approximately 43 kg (94.8 lbs) (optional lens not included)

Operation noise**: 48 dB (quiet mode)

Applicable software: Logo Transfer Software, Multi Projector Monitoring & Control Software

Supplied accessories: Power cord with secure lock, wireless/wired remote control unit, batteries (R6/AA type x 2)

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 cause fire or electrical shock.

2. The usage environment affects the lamp replacement cycle.

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

4. Pixel repetition signals only. (dot clock: 27.0 MHz)

5. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for extended periods.

6. The usage environment affects the lamp replacement cycle.

7. Due to natural characteristics of lamps, screen brightness may vary (flicker). This is not an indication of faulty lamp performance.

8. The lamp may not work if the lamp unit is operating at one time and the other unit is used as a backup.

9. The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp should not be subjected to shocks or vibrations.

10. The lamp is a consumable part. Therefore, the lamp unit may need to be replaced after a certain number of hours of use, even if the lamp still appears to be functioning.

11. When the lamp is replaced, the lamp replacement time set in the maintenance menu will be reset to 0 hours.

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

- Never touch the lamp when the projector is on.

- Do not use the projector if the lamp cover is removed or if any of the lamp cover is missing.

- Do not use the projector if the lamp surface is scratched or deformed, or if any part of the lamp surface has been peeled off or replaced with a different type of lamp.

- Do not use the projector if the lamp optical system’s alternating lamp operation (lamp changer) function. The projector can be operated in the presence of smoke or dust, but it is recommended to avoid running the projector in such an environment.

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. All other trademarks are the property of their respective trademark owners. Projection images simulated. © 2014 Panasonic Corporation. All rights reserved.