20,000 lm of Brightness and Rich Features from an Extraordinarily Compact Body

* 17,000 lm for the PT-DW17K.
Splendid Images from a Compact Body

Incredible 20,000 lm\(^*1\) of Brightness

Panasonic’s unique quad-lamp system, with its new high-power UHM lamps, has helped to make the body extremely compact while providing an astounding 20,000 lm\(^*1\) of brightness.

Dynamic Iris for a High 10,000:1\(^*3\) Contrast Ratio

Panasonic’s Dynamic Iris uses a scene-linking aperture mechanism to achieve a remarkable 10,000:1\(^*3\) 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.

System Daylight View 2 for Enhanced Color Perception

This unique Panasonic technology optimizes image quality to improve the color perception of the projected image in bright rooms. With a brightness of 20,000 lm\(^*1\), it provides highly comfortable viewing even in bright lighting, and allows viewers to concentrate easily on the images.

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-DZ21K Series projector you can view the waveforms on the screen and adjust the settings either automatically or manually as you prefer.

DICOM Simulation Mode\(^*4\)

This imaging mode is similar to DICOM part 14, which is a medical imaging standard. It reproduces X-ray images with remarkable clarity.

Active 3D Projection Capability (PT-DZ21K/DS20K)

The series is compatible with both passive and active 3D projection systems. It combines with either a separate, external 100/120/144 Hz drive with IR emitter and active shutter glasses, or an active filter and passive glasses, for viewing 3D images.

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 and an Environmentally Friendly Design

The PT-DZ21K Series projectors lower the total cost of ownership (TCO) because they have a lamp replacement cycle of up to 2,000 hours\(^*2\). Their environmentally friendly design also includes a low power consumption of 2,300 W.

\(^*1\) The PT-DW17K has 17,000 lm of brightness.  \(^*2\) The usage environment affects the lamp replacement cycle.  \(^*3\) Full on/off, with dynamic iris set to “3”.  \(^*4\) This product is not a medical instrument. Do not use it for actual medical diagnosis.
The Panasonic PT-DZ21K Series of flagship models feature breathtakingly beautiful images and reliable operation. A host of creative capabilities meet the projection needs of highly critical professionals.

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 new liquid cooling system directly cools the DLP™ chip to improve performance and enable operation up to 45 °C (113 °F). It allows quiet (49 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
The Eco Filter has an electrostatic Micro Cut Filter that collects minute dust particles with an ion effect. 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.

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-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 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 Ver. 2.7."

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-DZ21K Series can project large, multi-screen images without any additional equipment. Up to 100 units (10 × 10) can be edge-blended at a time.

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**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-SFR510 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. **The usage environment affects the filter maintenance cycle. 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. A special fixture must be attached to the lamp case when the projector is placed at an angle within ±30° (upward/downward) of the vertical.
Geometric Adjustment for Specially Shaped Screens (PT-DZ21K/DS20K)
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.

Optional Upgrade Kit (ET-UK20) Featuring Geometry Manager Pro (PT-DZ21K/DS20K)
The new Geometry Manager Pro software included in the optional upgrade kit supports Color Matching, Edge Blending, uniformity correction, and other useful functions for multiprojector setups (max. 32 units). It also allows creative masking using four lines or bitmap data. And its flexible and complex geometric adjustment capability suits a wide variety of screen shapes.

Multi Projector Monitoring & Control Software Ver. 2.7
Panasonic’s original Multi Projector Monitoring & Control Software Ver. 2.7 freeware lets you control and monitor multiple projectors at the same time over a wired LAN. If a problem occurs, an alarm message is sent to the monitoring/controlling PC.

Other Valuable Features
• 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, Korean)
• RoHS Directive compliant
• Anti-theft features with chain opening

Portrait Mode Capability (Option)*
Portrait projection is possible by mounting the optional ET-LAD510P or ET-LAD510PF lamp units, updating the projector’s firmware to MAIN Ver. 2.00 or later, and installing the projector with its terminal side surface facing downward.

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• 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.

Made in Japan
All PT-DZ21K Series projectors are carefully manufactured at the Panasonic factory in Japan, under strict quality control. This is another, very important advantage of a Panasonic projector.

Please contact the sales representatives with regard to the frame for portrait orientation. Installation is possible only with the terminal side facing downward. Horizontal rotation and vertical rotation are both limited to 15 degrees. Also, the lamp replacement cycle becomes 500 hours, and this cycle is affected by the usage environment. *10 This function cannot be used with some input signals and selected inputs. *11 With the STANDBY MODE set to ECO. When the STANDBY MODE is set to ECO, network functions such as power on over the LAN will not operate. Also, only certain commands can be received for external control using the serial terminal.
PT-DZ21K Series Projectors Lit Up the Opening Ceremony of the London 2012 Olympic Games

The opening ceremony, which was titled “Isles of Wonder,” used 26 PT-DZ21K Series projectors to wrap this colorful house with bright, incredibly vivid images.

Thirteen PT-DZ21K Series projectors were installed in portrait mode. Each unit was covered with a roof to protect against rain.
### Terminals

| Terminals | 1 | Remote 1 input/output | 2 | Remote 2 input/output | 3 | Serial input/output | 4 | SDI 1 input (PT-DZ211K/DS220K only) | 5 | SDI 2 input (PT-DZ211K/DS220K only) | 6 | HDMI input | 7 | RGB 1 input | 8 | DVI-D input | 9 | RGB 2 input | 10 | Video input | 11 | 3D sync 1 input/output (PT-DZ211K/DS220K only) | 12 | 3D sync 2 output (PT-DZ211K/DS220K only) | 13 | LAN connector |
|-----------|---|-----------------------|---|-----------------------|---|---------------------|---|-------------------------|---|-------------------------|---|--------------|---|------------|---|-------------|---|-------------|---|----------------|---|----------------|---|----------------|---|

### Projection Distance

**PT-DZ211K (16:10 aspect ratio)**

<table>
<thead>
<tr>
<th>Diagonal image size</th>
<th>ET-D75LE6</th>
<th>ET-D75LE10</th>
<th>ET-D75LE20</th>
<th>ET-D75LE30</th>
<th>ET-D75LE40</th>
<th>ET-D75LE50</th>
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<tbody>
<tr>
<td>1.78 (10”)</td>
<td>1.93 (4.9)</td>
<td>1.87 (4.8)</td>
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<td>1.54 (3.9)</td>
<td>1.35 (3.4)</td>
</tr>
<tr>
<td>2.54 (100”)</td>
<td>2.06 (5.2)</td>
<td>1.85 (4.7)</td>
<td>1.85 (4.7)</td>
<td>1.70 (4.3)</td>
<td>1.39 (3.5)</td>
<td>1.13 (2.9)</td>
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<tr>
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<td>2.04 (5.2)</td>
<td>1.73 (4.4)</td>
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<td>1.65 (4.2)</td>
<td>1.39 (3.5)</td>
<td>1.11 (2.8)</td>
</tr>
<tr>
<td>5.08 (200”)</td>
<td>2.03 (5.1)</td>
<td>1.55 (3.9)</td>
<td>1.57 (3.9)</td>
<td>1.51 (3.8)</td>
<td>1.36 (3.4)</td>
<td>1.14 (2.8)</td>
</tr>
<tr>
<td>7.62 (300”)</td>
<td>1.99 (4.9)</td>
<td>1.21 (3.1)</td>
<td>1.50 (3.8)</td>
<td>1.20 (3.1)</td>
<td>1.25 (3.2)</td>
<td>1.14 (2.8)</td>
</tr>
<tr>
<td>10.16 (400”)</td>
<td>1.95 (4.9)</td>
<td>1.02 (2.6)</td>
<td>1.16 (3.0)</td>
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<tr>
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<td>0.90 (2.3)</td>
<td>1.04 (2.6)</td>
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<td>1.12 (2.8)</td>
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<tr>
<td>15.24 (600”)</td>
<td>1.85 (4.7)</td>
<td>0.80 (2.0)</td>
<td>0.90 (2.3)</td>
<td>0.90 (2.3)</td>
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### Optional Accessories

- **ET-D75LE6**
  - Zoom lens
- **ET-D75LE10**
  - Zoom lens
- **ET-D75LE20**
  - Zoom lens
- **ET-D75LE30**
  - Zoom lens
- **ET-D75LE40**
  - Zoom lens
- **ET-D75LE50**
  - Zoom lens
- **ET-PKD510H**
  - High-ceiling mount bracket
- **ET-PKD510S**
  - Low-ceiling mounting bracket
- **ET-PFD510**
  - Frame
- **ET-LAD510**
  - Replacement lamp unit (one bulb)
- **ET-LAD510P**
  - Replacement lamp unit for portrait mode (a set of four bulbs)
- **ET-LAD510PF**
  - Replacement lamp unit for portrait mode (a set of four bulbs)
- **ET-UUK20**
  - Upgrade Kit (Geometry Manager Pro included)
- **ET-EMFS50**
  - Replacement filter
- **ET-SFR510**
  - Smoke cut filter

#### Projection Distance unit: meters (feet)

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#### Zoom lens
- **ET-D75LE6**
  - Zoom lens
- **ET-D75LE10**
  - Zoom lens
- **ET-D75LE20**
  - Zoom lens
- **ET-D75LE30**
  - Zoom lens
- **ET-D75LE40**
  - Zoom lens
- **ET-D75LE50**
  - Zoom lens

#### Replacement lamp unit
- **ET-LAD510**
  - Replacement lamp unit (one bulb)
- **ET-LAD510P**
  - Replacement lamp unit for portrait mode (a set of four bulbs)
- **ET-LAD510PF**
  - Replacement lamp unit for portrait mode (a set of four bulbs)

#### Upgrade Kit
- **ET-UUK20**
  - Upgrade Kit (Geometry Manager Pro included)

#### Replacement filter
- **ET-EMFS50**
  - Replacement filter

#### Smoke cut filter
- **ET-SFR510**
  - Smoke cut filter
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DT-Z21K</th>
<th>DT-S20K</th>
<th>DT-DW17K</th>
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<tbody>
<tr>
<td>Power supply</td>
<td>230–240 V AC, 50/60 Hz (Max current requirements: 12 A 600 V)</td>
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</table>

**DLP™ chip**
- Panel size (Display method) Pixels: 24.4 mm × 0.96 (diagonal) (16:10 aspect ratio) (DLP™ chip ×0.85) projection system 2,304,000 (1,920 × 1,200) × 3, total of 4,617,776 pixels
- 24.1 mm (0.95 in) (diagonal) (4:3 aspect ratio) (DLP™ chip ×0.85) projection system 1,470,000 (1,400 × 1,050) × 3, total of 4,410,000 pixels
- 21.8 mm (0.86 in) (diagonal) (16:9 aspect ratio) (DLP™ chip × 3.5) projection system 1,049,088 (1,366 × 768) × 3, total of 3,147,244 pixels

**Lens**
- Optional powered zoom and fixed-focus lenses

**Lamp**
- Lamp life: 4,000 hours (worst-case: 3,000 hours) *1 (for altitudes from 1,400 m to 3,048 m), 2,000 hours *2 (for altitudes from 3,048 m to 7,620 m), 1,000 hours *3 (for altitudes from 7,620 m to 8,858 ft)

**Screen size (diagonal)**
- 1.78–25.14 m (70–600 in)
- 1.72–26.45 m (5–600 m) with the ET-D75LE50, 16:10 aspect ratio

**Brightness**
- 20,000 lumens (four-lamp) *3

**Dimensions**

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<td>1,049,088 (1,366 × 768) × 3</td>
</tr>
</tbody>
</table>

**Scanning frequency**
- Vertical: ±40 ° from center of screen (powered)
- Horizontal: ±50 ° with the ET-D75LE50

**Optical axis shift**
- Vertical: ±33° with the ET-D75LE50
- Horizontal: ±60° with the ET-D75LE50

**Keystone correction range**
- Vertical: ±40° with the ET-D75LE50
- Horizontal: ±60°

**Installation**
- Ceiling/floor, front/rear

**Terminals**
- S1 IN: BNC × 1 (HD/SDI-SDI)
- S2 IN: 3G-SDI/HD-SDI × 1 (Deep Color)
- 3D SYNC IN/OUT: × 1 (3D timing signal)
- RGB IN: BNC × 5 (RGB/YPbPr/YCrCb-Y/C, 4:4:4)
- RGB 2 IN: BNC × 1 (RGB/YPbPr/YCrCb-Y/C, 4:4:4)
- HDMI IN: HDMI × 2 (up to 2160p/60Hz)
- DVI IN: DVI-D (24-pin) × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)
- REMOTE IN: 3.5 mm mini jack (for wired remote control) × 1
- REMOTE 2 IN: BNC × 1 (composite video)
- REMOTE OUT: × 1 (for wired remote control) × 1
- CABINET CONTROLS: × 1 (for wired remote control, for wired remote control)
- REMOTE 2 OUT: × 1 (for wired remote control)
- LAN: 10BASE-T/100BASE-TX, compatible with PJLink™
- Remote control terminal: × 1

**Cabinet materials**
- Molded plastic

**Dimensions (W x H x D)**
- 620 × 291 × 800 mm (24-7/16 × 11-11/16 × 31-1/2 in) (optional lens not included)

**Weight**
- Approximately 43 kg (95 lb) (optional lens not included)

**Shipping dimensions (W x H x D)**
- Outer: 815 × 480 × 360 mm (32 × 18-11/16 × 14-1/8 in)
- Inner: 765 × 350 × 180 mm (30 × 13-11/16 × 7-1/8 in)

**Power consumption**
- 2,300 W (0.3 W with STANDBY mode set to ECO,* 9 W with STANDBY mode set to NORMAL)

**Operation noise**
- 48 dB (quasi-square wave)

**Operation duration**
- Operating temperature: 0–45 °C (32–113 °F), operating humidity: 10–80 % (no condensation)

**Applicable software**
- Multi Projector Transfer Software, Multi Projector Monitoring & Control Software, Logo Transfer Software, Multi Projector Monitoring & Control Software

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

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*1 When the standby mode is set to eco, network functions such as power on over the LAN will not operate. Also, only certain commands can be received for control purposes via the serial terminal.

*2 The environment affects the lamp replacement cycle.

*3 Measurement conditions, and method of notation all comply with ISO 21118 international standards. *4 WXGA resolution: 1280 × 800 pixels when the signals are compliant with VESA C751-RTB (Coordinated Video Timing Reduced Bandwidth). *5 Optical axis shift cannot be operated with the ET-D75LE50. *6 ±22° with the ET-D75LE50, ±28° with the ET-D75LE6, and ±40° with the ET-D75LE10 and ET-D75LE20. ±7 up to ±15° with the ET-D75LE50 and ET-D75LE60. ±9 up to ±5° with the ET-D75LLE. ±11 up to ±1° when the ET-SFR605 Smoke Cut Filter, the operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when the PAN CONTROL is set to HIGH ALTITUDE mode (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft)). ±13 up to ±1° when the ET-SFR150 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. When the ET-LAD3010P/LAD5010PP WATT SET FOR THE PROJECTOR unit is used, the operating temperature range is 0 °C to 35 °C (32 °F to 95 °F). ±11 up to ±1° when the ET-SFR605 Smoke Cut Filter, the operating temperature range is 0 °C to 30 °C (32 °F to 86 °F), and the projector cannot be used in places at high altitude.

**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 electro shock.

2. The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a loud 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 operating.
   - Make sure there is an unobstructed space of 500 mm (19-11/16 inches) or more around the projector's intake and exhaust openings.
   - If the power is switched off, the projector will automatically operate with three lamps for 8 hours of the 24 hours / 7 days.
   - 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 / 7 days a week, use the multi-lamp optical system's alternating lamp operation (lamp changer) function. The projector can be operated continuously 24 hours a day / 7 days a week in a four-lamp operation mode, but it will automatically switch to three lamps for 8 hours of the 24 hours / 7 days.

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

6. 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.

7. The brightness of the lamp will gradually decrease with use.

8. Because the ET-D75LE50 is a fixed short-throw lens, the lens shift function cannot be used with it.

9. The available characteristics of lamps, screen brightness may vary (flicker). This is not an indication of faulty lamp performance.

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**Keywords**
- Lamp life, lamp replacement, lens shift, network control.
The compact size, light weight, and low operating noise of the PT-DZ21K Series realize brighter images more applications.