A Bright 10,000 lm, Stunning Colors and Highly Flexible Projection

For the PT-DX100/DX100L. 8,500 lm for the PT-DZ870/DZ870L and PT-DW830/DW830L.

The PT-DZ870/LK/DZ870/LW, PT-DW830/LK/DW830/LW, and PT-DX100/LK/DX100/LW are not equipped with a lens.

The cabinet for each model is available in black (PT-DZ870K/DW830K/DX100K) or white (PT-DZ870W/DW830W/DX100W).
Flagship Quality in a 1-Chip DLP™ Projector

Panasonic has raised the level of its top-end 1-chip DLP™ projector even further with the new PT-DZ870 Series. It features many of the advanced functions that are found in our flagship 3-chip DLP™ projector. It also includes the Dynamic RGB Booster, which achieves stunning image quality with high levels of color reproduction and brightness, and an optical block with dust-resistant structure. These features enable a degree of color reproduction that approaches our highest level projectors, and a raised level of reliability. It satisfies professional users’ demands for higher return on investment (ROI), lower total cost of ownership (TCO), superior performance, and expanded application flexibility. Geometric adjustment, portrait projection, 3D projection, and multi-screen projection further increase flexibility in use. If you want truly creative imaging, you’ll find it in the PT-DZ870 Series.

Vivid Picture Quality with High Brightness

Bright 10,000/8,500 lm from Compact Body
A unique lamp drive system has helped to make the body compact, while two newly developed, high-output, 420 W lamps provide high brightness of 10,000 lm for the PT-DX100 and 8,500 lm for the PT-DZ870/DW830.

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

Panasonic’s RGB Booster achieves high image quality with levels of color reproduction and brightness that make each color stand out. It combines Panasonic’s proprietary Vivid Color Control technology with a Lamp Modulation Drive System for a 1-chip DLP™ projector that produces bright and vivid colors. This has been further advanced in the PT-DZ870 Series with the development of the Dynamic RGB Booster. Images are analyzed frame by frame, and scene-linking and realtime modulation are used to achieve high brightness and vivid color reproduction.

- **Vivid Color Control**
  This technology optimizes the use of the color wheel segments. It increases the brightness of each RGB color by minimizing the unallocated portions between the colors, to produce truly vivid coloring.

- **Lamp Modulation Drive System**
  **Conventional system:** Because the lamp power was fixed, color reproduction was enhanced by sacrificing brightness.

  **Dynamic RGB Booster:** Images are analyzed frame by frame, and the lamp output is modulated to match each scene. This achieves optimal brightness and color reproduction for a wide variety of scenes, coloring.

**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 10,000 lm*, it provides highly comfortable viewing even in bright lighting, and allows viewers to concentrate easily on the images.

**DICOM Simulation Mode**

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

**Rec. 709 Mode for HDTV Projection**

Optimal color reproduction can be achieved by selecting this mode, compliant with ITU-R Recommendation B.1709, when images from an HDTV source are projected.

**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-DZ870 Series projector you can view the waveforms on the screen and adjust the settings either automatically or manually as you prefer.

**Full-HD Ready WUXGA Resolution**

The PT-DZ870 features native WUXGA resolution for full-HD viewing. This brings you lifelike projection of intricate, highly detailed 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

*1 Full on/off, with dynamic iris on.
*2 For the PT-DX100/DX100L. 8,500 lm for the PT-DZ870/DZ870L and PT-DW830/DW830L.
*3 This product is not a medical instrument. Do not use it for actual medical diagnosis.
Easy Maintenance and Superior Reliability

Panasonic’s Original Dual Lamp System
This system eliminates the interruption if a lamp should fail (in dual-lamp operation mode). The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection.

Long Lamp Life Contributes to Low TCO
The PT-DZ870 Series projectors lower the total cost of ownership because they have a lamp replacement cycle of up to 4,000 hours.†4

Filter-Less Dust-Resistant Optical Engine
• A Heat-Pipe Cooling System Maintains Stable Operation up to 45°C†5
A new optical cooling system featuring a heat pipe block suppresses temperature rises inside the projector and allows stable operation up to an ambient temperature of 45°C (113°F).†6 The use of this heat-pipe cooling system also achieves quiet operation, enabling viewers to concentrate on the presentation or on quiet movie scenes.

• Dust-Resistant Optical Block
The optical block, the heart of the projector, is hermetically sealed to resist the effects of dust and other particles in the air, which makes it possible to remove the air filters for optics. It also contributes to the low TCO.

Easy Lamp Replacement†6
For easier maintenance, you can replace the lamp from the rear. This makes it easy to replace a lamp unit while the projector is still in the mounting bracket or dual stacked.

System Integration Flexibility

DIGITAL LINK—The Single Cable Solution
• Transmits Digital Signals up to 100 m (328 ft) with a Single Cable
Equipped with a DIGITAL LINK terminal, the PT-DZ870 Series projector allows transmission of HDMI, uncompressed HD digital video, audio†7 and control signals (Ethernet, RS-232C) for up to 100 meters (328 feet) through a single CAT5e (STP) cable or higher. This simplifies cabling and system upgrades, making it ideal for ceiling-mounted and other permanent installations.

• Optional ET-YFB100G Digital Interface Box for Easy Setup
Used together with the new ET-YFB100G Digital Interface Box, or other compatible equipment,†8 the installation of this projector is easier than ever, without any need for external receivers. The input signal can also be easily switched‡ from control panel or remote control of the projector to enable attractive presentations or lessons using multimedia content.

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. 2.8.”

Art-Net™†9 Compatible
The PT-DZ870 Series projector is compatible with the Art-Net protocol for lighting management. Art-Net compatibility lets you connect the projector to the lighting console, and operate functions such as shutter on/off, input change, power on/off, etc., together with the light control.

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-DZ870 Series can project large, multiscreen images without any additional equipment. Up to 100 (10 × 10) units can be edge-blended at a time.

Lamp replacement cycle (hours)*

<table>
<thead>
<tr>
<th>Lamp mode</th>
<th>Brightness (lumens)</th>
<th>Lamp replacement cycle (hours)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual: Normal</td>
<td>8,500</td>
<td>10,000</td>
</tr>
<tr>
<td>Dual: Eco</td>
<td>6,800</td>
<td>8,000</td>
</tr>
<tr>
<td>Single: Normal</td>
<td>4,250</td>
<td>5,000</td>
</tr>
<tr>
<td>Single: Eco</td>
<td>3,400</td>
<td>4,000</td>
</tr>
</tbody>
</table>

* With the LAMP POWER set to ECO mode in dual lamp operation, 3,000 hours with the LAMP POWER set to NORMAL mode in dual lamp operation. The usage environment affects the lamp replacement cycle.† The operating temperature range is 0°C to 45°C (32°F to 113°F) when used in locations from 1,400 m to 2,700 m (4,953 ft to 8,858 ft) above sea level. If the ambient temperature exceeds 35°C (95°F), the light output may be reduced to protect the projector. ‡ The lamp filter must be replaced at the same time as the lamp.§ The PT-DZ870 Series does not have an audio function. * Crestron’s DigitalMedia 8G+, Extron’s XTP Systems and AMX’s Enova DX. † With edge blending. † Without edge blending. * Input selection and other ET-YFB100G operations can be performed only when connecting to a DIGITAL LINK compatible projector. ‡ Art-Net is a protocol for transmitting the lighting control protocol DMX512 over Ethernet.
New Geometric Adjustment for Specially Shaped Screens (PT-DZ870)
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.

Active 3D Projection Capability
The PT-DZ870 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.

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 degrees vertically, to accommodate various installation conditions. The lens-centered design contributes to easy installation.

Portrait Mode Capability (Optional)††
Portrait projection is possible by mounting the optional ET-LAD120P or ET-LAD120PW lamp units, updating the projector’s firmware, and installing the projector with its terminal side surface facing downward.

Optional Upgrade Kit ET-UK20 Featuring Geometry Manager Pro (PT-DZ870)
The new Geometry Manager Pro software included in the optional upgrade kit supports Color Matching, Edge Blending, uniformity correction, and other useful functions for multi-projector 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.

Multiple Terminals with HD-SDI Compatibility
The PT-DZ870 Series has an array of terminals, including 3D sync, DVI-D and HDMI terminals. The PT-DZ870 also features an SDI (SD-, HD-, and 3G-SDI) input terminal.

Web Browser Control
The PT-DZ870 Series 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.

A Wide Selection of Lenses (Optional)
A wide variety of lenses add versatility and flexibility to projector installation. Long-throw zoom lenses, a short-throw lens, and an ultra-short-throw lens, in particular, make it easier to adapt your projector to the installation site compared with other brand systems. The lenses attach and detach with one-touch ease.

Other Valuable Features
- PJLink™ compatibility
- P-in-P function‡‡
- Mechanical lens shutter with fade in/out effect
- Scheduling function
- Direct power off
- 30 m long-range wireless remote control
- Anti-theft features with chain opening
- Control device setup function
- ID assignment for up to 64 units
- Built-in test pattern
- Selectable 10-language on-screen menu (English, German, French, Spanish, Italian, Portuguese, Russian, Japanese, Chinese, Korean)
- RoHS Directive compliant

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.

All PT-DZ870 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.

*11 Please contact the sales representative 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 differs from that of the landscape mode, and is affected by the usage environment.
*12 Firmware will be available by September 2013.
*13 This function cannot be used with some input signals and selected inputs.
*14 With the STANDBY MODE set to ECO.
Featuring the superb color rendition, light weight, and excellent TCO, the PT-DZ870 Series meet the versatile needs of professionals.

Black/white models

The cabinet for each model is available in black (PT-DZ870K/DW830K/DX100K) or white (PT-DZ870W/DW830W/DX100W).

PT-DZ870K/DW830K/DX100K

PT-DZ870W/DW830W/DX100W

The PT-DZ870LK/DZ870LW, PT-DW830LK/DW830LW, and PT-DX100LK/DX100LW are not equipped with a lens.

PT-DZ870LK/DW830LK/DX100LK

PT-DZ870LW/DW830LW/DX100LW

Optional Accessories

- ET-DLE030 Fixed-focus lens
- ET-DLE250 Zoom lens
- ET-DLE350 Zoom lens
- ET-DLE450 Zoom lens
- ET-DLE150 Fixed-focus lens
- ET-DLE055 Fixed-focus lens
- ET-PKD120H High-ceiling mount bracket
- ET-PKD120S Low-ceiling mount bracket
- ET-PKD120B Attachment for ceiling mount bracket
- ET-YFB100G Digital interface box
- ET-DLE030 Fixed-focus lens (one bulb)
- ET-LAD120 Replacement lamp unit (one bulb)
- ET-LAD120W Replacement lamp unit (a set of two bulbs)
- ET-LAD120P Replacement lamp unit for portrait mode (one bulb)
- ET-LAD120PW Replacement lamp unit for portrait mode (a set of two bulbs)

NOTE: The ET-DLE030 will be available by July 2013.

Brackets included for various installation needs, including server rack (EIA standards) mounting.

NOTE: The ET-DLE030 will be available by July 2013.

Black/white models

Higher education

Museums / entertainment
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PT-DZ700/DZ800L</th>
<th>PT-DW830/DW830L</th>
<th>PT-DX100/DX100L</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
<td>120–240 V AC, 50–60 Hz</td>
<td>120–240 V AC, 50–60 Hz</td>
<td>120–240 V AC, 50–60 Hz</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>1.030 W (1.360 W) (3 W when standby mode set to eco**), 3 W when standby mode set to normal**</td>
<td>1.030 W (1.360 W) (3 W when standby mode set to eco**), 3 W when standby mode set to normal**</td>
<td>1.030 W (1.360 W) (3 W when standby mode set to eco**), 3 W when standby mode set to normal**</td>
</tr>
<tr>
<td><strong>Distraction Btu</strong></td>
<td>3.61 Btu/hour for the PT-DZ700/DZ800L/DW830L/DW830LX, 3.79 Btu/hour for the PT-DX100/DX100L</td>
<td>3.61 Btu/hour for the PT-DZ700/DZ800L/DW830L/DW830LX, 3.79 Btu/hour for the PT-DX100/DX100L</td>
<td>3.61 Btu/hour for the PT-DZ700/DZ800L/DW830L/DW830LX, 3.79 Btu/hour for the PT-DX100/DX100L</td>
</tr>
<tr>
<td><strong>DLP</strong> chip</td>
<td>Panel size: 17.9 mm (0.67 inches) diagonal (16:10 aspect ratio)</td>
<td>Panel size: 19.2 mm (0.76 inches) diagonal (16:10 aspect ratio)</td>
<td>Panel size: 19.2 mm (0.76 inches) diagonal (16:10 aspect ratio)</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>PT-DZ870/DW830/DX100</td>
<td>Powered zoom (throw ratio 1.7–2.4:1)</td>
<td>Powered zoom (throw ratio 1.8–2.5:1)</td>
</tr>
<tr>
<td><strong>Lamp</strong></td>
<td>420 W UHM lamp x2</td>
<td>Optional powered zoom/focus lenses and fixed-focus lens</td>
<td>1,200 W UHM lamp x2</td>
</tr>
<tr>
<td><strong>Screen size</strong></td>
<td>1.27–20.44 ft (50–600 in)</td>
<td>1.27–20.44 ft (50–600 in)</td>
<td>1.27–20.44 ft (50–600 in)</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>8,500 lm (dual-lamp, lamp mode: normal)</td>
<td>10,000 lm (dual-lamp, lamp mode: normal)</td>
<td>16,000 lm (dual-lamp, lamp mode: normal)</td>
</tr>
<tr>
<td><strong>Center-to-corner uniformity</strong></td>
<td>±90%</td>
<td>±90%</td>
<td>±90%</td>
</tr>
<tr>
<td><strong>Contrast</strong></td>
<td>10,000:1 (full on/full off, in dynamic iris 3 mode)</td>
<td>10,000:1 (full on/full off, in dynamic iris 3 mode)</td>
<td>10,000:1 (full on/full off, in dynamic iris 3 mode)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1,920 x 1,200 pixels</td>
<td>1,920 x 1,200 pixels</td>
<td>1,920 x 1,200 pixels</td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>498 x 556 x 210 mm (19-13/16 x 21-7/8 x 8-1/16 inches) (with supplied lens)</td>
<td>498 x 556 x 210 mm (19-13/16 x 21-7/8 x 8-1/16 inches) (with supplied lens)</td>
<td>513 x 593 x 297 mm (20-1/16 x 23-1/16 x 11-3/4 inches) (with lens)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approximately 18.9 kg (41.3 lbs with supplied lens)</td>
<td>Approximately 18.9 kg (41.3 lbs with supplied lens)</td>
<td>Approximately 17.4 kg (38.8 lbs without lens)</td>
</tr>
<tr>
<td><strong>Operating environment</strong></td>
<td><strong>STANDBY MODE</strong></td>
<td><strong>STANDBY MODE</strong></td>
<td><strong>STANDBY MODE</strong></td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>10 °C to 40 °C (50 °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). Also, if the ambient temperature exceeds 40 °C (104 °F) (35 °C (95 °F) in High Altitude mode) when the projector is being used with Lamp Select set to Dual and Lamp Power set to High, the light output may be reduced approx. 20% to protect the projector.</td>
<td>10 °C to 40 °C (50 °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). Also, if the ambient temperature exceeds 40 °C (104 °F) (35 °C (95 °F) in High Altitude mode) when the projector is being used with Lamp Select set to Dual and Lamp Power set to High, the light output may be reduced approx. 20% to protect the projector.</td>
<td>10 °C to 40 °C (50 °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). Also, if the ambient temperature exceeds 40 °C (104 °F) (35 °C (95 °F) in High Altitude mode) when the projector is being used with Lamp Select set to Dual and Lamp Power set to High, the light output may be reduced approx. 20% to protect the projector.</td>
</tr>
</tbody>
</table>

**NOTES ON USE**

1. Do not install the projector in locations that are subject to excessive water, humidity, steam, or oil 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 must be between 0 °C (32 °F) and 40 °C (104 °F). 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.

3. 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 function (Lamp Relay mode). The projector can be operated continuously 24 hours a day / 7 days a week in dual-lamp operation mode. Allow a minimum of two hours per week of non-operation time per lamp if using the dual-lamp operation mode.

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

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

6. The lamp 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.
### Projection Distance

<table>
<thead>
<tr>
<th>Projection Distance</th>
<th>ET-DLE030</th>
<th>ET-DLE050</th>
<th>ET-DLE050</th>
<th>ET-DLE065</th>
<th>ET-DLE050</th>
<th>ET-DLE065</th>
<th>ET-DLE065</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diagonal image size</strong></td>
<td>(unit: meters (feet))</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(three throw)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L1</td>
<td>L2</td>
<td>L3</td>
<td>L4</td>
<td>A1</td>
<td>A2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>min.</strong></td>
<td><strong>max.</strong></td>
<td><strong>min.</strong></td>
<td><strong>max.</strong></td>
<td><strong>min.</strong></td>
<td><strong>max.</strong></td>
<td><strong>min.</strong></td>
<td><strong>max.</strong></td>
</tr>
<tr>
<td>1.07</td>
<td>1.30</td>
<td>1.24</td>
<td>2.08</td>
<td>0.37</td>
<td>0.31</td>
<td>0.37</td>
<td>0.31</td>
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<tr>
<td>0.28</td>
<td>0.56</td>
<td>0.28</td>
<td>0.56</td>
<td>0.28</td>
<td>0.56</td>
<td>0.28</td>
<td>0.56</td>
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<tr>
<td>0.19</td>
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</tr>
<tr>
<td>0.13</td>
<td>0.26</td>
<td>0.13</td>
<td>0.26</td>
<td>0.13</td>
<td>0.26</td>
<td>0.13</td>
<td>0.26</td>
</tr>
<tr>
<td>0.10</td>
<td>0.21</td>
<td>0.10</td>
<td>0.21</td>
<td>0.10</td>
<td>0.21</td>
<td>0.10</td>
<td>0.21</td>
</tr>
</tbody>
</table>

#### Digital signage for train stations.

- The usage examples shown above are simulated images. In actual installation, a predetermined amount of space must be provided around the projector.
- For detachable lenses as of June 2013.

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**NOTE:** The ET-DLE030 will be available by July 2013.

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**ET-DLE030—The Lens with the World’s Shortest Throw!**

Panasonic’s new ET-DLE030 ultra-short-throw lens enables 100-inch projection from a 0.8 m (2.7 ft) distance. It’s a powerful solution for the hassles of installation in a narrow space.

![Image of ET-DLE030](image-url)

**Digital signage for train stations.**

- The photos show the ET-DLE030 attached to the PT-DZ870K.

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**NOTE:** The ET-DLE030 will be available by July 2013.

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**For more information about Panasonic projectors, please visit:**

Projector Global Web Site – net/avc/projector

Facebook – facebook.com/panasonicprojector

YouTube – youtube.com/user/panasonicjapan

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**Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. DLP, DLP logo and DLP Medallion logo are trademarks or registered trademarks of Texas Instruments. The projection distances and throw ratios given in this brochure are for use only as guidelines. For more detailed information, please consult the dealer from whom you are purchasing the product. The P.6 Link trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. RoomView, Crestron RoomView, and Crestron Connected are trademarks of Crestron Electronics, Inc. HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. All other trademarks are the property of their respective trademark owners. Projection images simulated.**

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