Panasonic BUSINESS

SOLID SHINE Projector Solutions
Not Just Projection, a Holistic Solution

This case-study portfolio demonstrates how Panasonic SOLID SHINE Laser projectors work as part of end-to-end visual systems in real-life situations, from major outdoor events to roles at universities, museums, and monitoring facilities. Whatever application you have in mind, Panasonic has laser projectors in a comprehensive lineup purpose-built to suit your needs. Our products are shaped by the voices of professional end-users as well as content creators and professional installers. Know-how extends beyond next-generation projector design to expert on-site customer support, ensuring that SOLID SHINE Laser projectors harmonize with existing infrastructure; work flawlessly 24/7 without maintenance; and lower Total Cost of Ownership (TCO). So why choose SOLID SHINE? The answer is here in the pages of this catalog.
Strengthening Relationships in Every Field

**Events / Rental Staging**
- Olympic Games Rio 2016
- i Light Marina Bay
- Elbphilharmonie Inauguration Spectacular

**Museum / Exhibition**
- National Museum of Singapore
- Orbi Osaka
- Petersen Automotive Museum

**Education**
- Hiroshima City University
- Queensland University of Technology
- Australian Maritime College

**Monitoring**
- Kumamoto Prefectural Police Department
- Niigata Prefectural Police Department
- Integrated Security Operating Center
Event / Rental Staging

Olympic Games Rio 2016

Brazil

Panasonic’s unparalleled know-how in supply, setup, and operation of projection systems contributed to spectacular events.

Why Choose Panasonic?

- Extremely compact and lightweight bodies with dedicated mounting-frame systems
- Free 360-degree installation flexibility with support for Portrait Mode
- 3-Chip DLP™ high-resolution imaging for accurate detail reproduction without visible pixels
- Single-cable DIGITAL LINK connection, advanced multi-screen mapping, and built-in Geometric Adjustment system

Equipment installed

3-Chip DLP™ Projector
PT-RZ31K

3-Chip DLP™ Projector
PT-RQ13K

3-Chip DLP™ Projector
PT-RZ12K

1-Chip DLP™ Projector
PT-RZ970

1-Chip DLP™ Projector
PT-RZ670

1-Chip DLP™ Projector
PT-RZ370

Opening Ceremony

Panasonic’s PT-RZ31K was deployed at key moments throughout the Opening Ceremony, vividly demonstrating 30,000 lumens of imaging power, while SOLID SHINE supported logistical operations and theater presentations at other venues.

More Information

Related video: panasonic.net/cns/projector/casestudies/rio2016/#video
Website: https://panasonic.net/cns/projector/casestudies/rio2016/index.html
Why Choose Panasonic?

- High brightness and class-leading picture quality deliver immersive and vibrant super-large-screen images at major events
- Portrait Mode and Geometry Manager Pro software enables projection on a wide array of screen shapes and surfaces

Equipment installed

A variety of lenses were used, including the ET-D75LE6 Short Throw Lens, to enable easy projector installation at different throw distances.

Panasonic simulation software helped precisely align content projected from PT-RZ31Ks onto Singapore’s iconic Merlion statue. Photo courtesy of i Light Marina Bay.

More Information

Related video: https://www.youtube.com/watch?v=bmOQet7-9rM
Website: http://news.panasonic.com/global/topics/2017/46283.html
A combined brightness of 800,000 lumens created immense high-resolution images totaling 17400 x 2160 pixels.

Despite the challenge aligning images from more than 100 projectors, edge-blending function seamlessly merged pictures for dramatic presentation.

Reduced installation complexity and expedited setup is one of Panasonic’s main strengths as a supplier at events with tight logistical deadlines.

Why Choose Panasonic?

- Ultra-high-brightness of PT-RZ31K units delivered efficient laser technology capable of up to 20,000 hours maintenance-free operation
- Abundant connections and wide interface compatibility enable centralized projection network setup and control via connected PC/server
- Extensive onboard edge blending and color matching functions to create seamless images of virtually limitless scale
- Fractional size and weight of competitive 30,000-lumens-class lamp projectors

Equipment installed

Event / Rental Staging
Elbphilharmonie
Inauguration
Spectacular

Germany

More Information
Website: https://panasonic.net/cns/projector/casestudies/events006/
Why Choose Panasonic?

- No lamp or filter replacement for up to 20,000 hours delivers outstanding economy in fixed permanent applications
- Free 360-degree installation flexibility broadens the scope of projection possibilities
- Edge blending and multi-screen calibration enable large-scale image mapping from any angle, including interior domes and curved walls
- High brightness, outstanding picture quality, and excellent reliability under continuous operation
- Strong on-site technical support for the projector layout design

Equipment installed

1-Chip DLP™ Projector
PT-RZ670

More Information
Related video: https://www.youtube.com/watch?v=LHBrygQzQmg
Website: https://panasonic.net/cns/projector/casestudies/museum004/

With the dedicated app, visitors can photograph animals to create a picture book.

A section of the seamless 144-meter-long corridor projection.

SOLID SHINE Laser projectors can be concealed from obvious view.

“Story of the Forest” by teamLab.
Why Choose Panasonic?

- Panasonic 4K+ resolution capability ensures bright, vibrant, and pixel-free large-scale image projection
- SOLID SHINE projectors maintain excellent image quality and high brightness for a longer period with linear (not exponential) degradation
- Supports ET-DLE030/ET-D75LE90 Ultra Short-Throw lenses for large-screen projection from a short distance, perfect for non-conventional spaces
- Panasonic offers a full range of projectors and professional displays to work closely with clients to exceed objectives under budget

Equipment installed

- 3-Chip DLP™ Projector PT-RQ13K
- 3-Chip DLP™ Projector PT-RZ12K
- 3-Chip DLP™ Projector PT-RZ670
- 1-Chip DLP™ Projector PT-RZ475
- 1-Chip DLP™ Projector PT-RZ370

More Information

Website: https://panasonic.net/cns/projector/casestudies/069.html

Panasonic’s ability to supply visual-system devices to fulfill almost any role is backed by on-the-ground support for installer partners and operators.
Why Choose Panasonic?

- Panasonic supports an extensive range of role-focused projectors and professional displays to assure best-in-class cost to performance in any application.
- Multi-Screen Support System assures indiscernible edge-blends for beautiful wide-aspect images.
- Single-cable DIGITAL LINK connectivity provides simple yet high-quality digital transmission of video and control signals to reduce installation costs.
- Filterless and lampless design eliminates routine maintenance common to lamp projectors of similar brightness output.

Equipment installed

1-Chip DLP ™ Projector
PT-RZ670

More Information

Related video: https://www.youtube.com/watch?v=C8UKlmIpmrk
Website: https://panasonic.net/cns/projector/casestudies/062.html

Compact and quiet, the PT-RZ670 Series delivers dynamic and arresting visuals without distraction.
In the Large Lecture Hall, Panasonic 3-Chip DLP™ PT-RZ12KJ delivers requisite detail for clear and comfortable visibility, allowing students to take notes without effort.

Why Choose Panasonic?

- With high 20,000:1 contrast and brightness, there’s no need to dim the lights, as projected images remain clearly legible.
- Quick Start/Quick Off function prevents malfunctions caused by turning the projector on or off from the main switch, and reduces energy consumption during periods of non-operation.
- Emulation modes and wide support for HDBaseT™-compliant control over LAN, RS-232C, and Crestron Connected™ allow easy integration with peripherals of differing brands.
- Setup, installation, and control can be customized with DIGITAL LINK Switcher and DIGITAL LINK Interface Box.

Equipment installed

3-Chip DLP™ Projector
PT-RZ12K

1-Chip DLP™ Projector
PT-RW630

1-Chip DLP™ Projector
PT-RZ570

More Information

Related video: https://www.youtube.com/watch?v=dX7BNYPprt8
Website: https://panasonic.net/cns/projector/casestudies/education003/
Why Choose Panasonic?

- High 12,000 lm of brightness laser projector provides the immersive and detailed images required to enhance presentations and engage students
- Up to 20,000 hours maintenance-free operation and long-lasting reliability support prolonged, stable operation
- 3-Chip DLP™ imaging at 4K+ resolution without visible pixels
- Mount in any orientation without affecting projection longevity

Equipment installed

- 3-Chip DLP™ Projector PT-RQ13K
- 3-Chip DLP™ Projector PT-RZ12K
- 1-Chip DLP™ Projector PT-RZ670

More Information

Related video: https://www.youtube.com/watch?v=OuJe2Odh-A
Website: https://panasonic.net/cns/projector/casestudies/education002/

“The Cube” space is flanked by a massive 14 x 9 m screen surface displaying images in 8K resolution served by a fleet of four PT-RQ13K projectors, augmented elsewhere by PT-RZ670 Series units and Panasonic interactive multi-touch panels.
Panasonic helped Australian Maritime Academy create the world’s most advanced and sophisticated simulation suite with 4K+ for maximum realism.

A total of five PT-RQ13K projectors were installed for seamless panoramic display.

**Why Choose Panasonic?**

- Among the smallest and lightest laser light-source 3-Chip DLP™ projectors with 4K+ resolution in the world
- High 10,000 lm of brightness and precise 20,000:1 contrast performance
- Geometry Manager Pro Software (ET-UK20) and Auto Screen Adjustment Upgrade Kit (ET-CUK10) interface with projectors to correct images on large convex screens
- HDBaseT™-based DIGITAL LINK connection supports single-cable transmission of 4K video signals for distances of up to 50 m (164 ft)

**Equipment installed**

![3-Chip DLP™ Projector
PT-RQ13K](image)

**More Information**

Related video: https://youtu.be/P0Dmsstw_B0
Website: https://panasonic.net/cns/projector/casestudies/education001/

A total of five PT-RQ13K projectors were installed for seamless panoramic display.
Real-time traffic conditions are displayed for the entire Kumamoto region, easily legible at a glance and from a distance.

Huge screen surface area is enabled with five sets of four PT-RZ670 projectors displaying 72-inch images at 16:10 aspect.

Why Choose Panasonic?

- Engineered to withstand 24-hour operation 365 days a year with efficient and extended maintenance schedule
- High brightness and pin-sharp high-resolution performance to enable clear image display in brightly lit rooms
- Networked multi-screen system produces 6.2 m x 4.2 m screen at WUXGA with undetectable edge-blends

Equipment installed

1-Chip DLP™ Projector
PT-RZ670

More Information
Website: https://panasonic.net/cns/projector/casestudies/others002/

Monitoring

Kumamoto Prefectural Police Department
(Traffic Control Center)
Japan

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- Engineered to withstand 24-hour operation 365 days a year with efficient and extended maintenance schedule
- High brightness and pin-sharp high-resolution performance to enable clear image display in brightly lit rooms
- Networked multi-screen system produces 6.2 m x 4.2 m screen at WUXGA with undetectable edge-blends
Panasonic can provide consulting services and oversee installation of end-to-end visual systems in any venue to assure budget and performance objectives are met.

Why Choose Panasonic?
- Ultra Short-Throw projectors enable projection from short distances for use in areas with limited space
- Extremely stable operation and no maintenance for about 87,000 hours provides a dramatic reduction in TCO
- Panasonic can supply not only projectors, but also an entire multi-visual system service for efficient one-stop renewal
- SOLID SHINE Series projectors maintain consistently high image quality brightness for very long periods

Equipment installed

1-Chip DLP™ Projector
PT-RZ475

More Information
Website: https://panasonic.net/cns/projector/casestudies/others001/

Short-throw lenses allowed existing rear-projection infrastructure to be preserved, reducing total cost of the renewal.

In dim conditions, brightness may be lowered to extend projector life to 87,000 hours of continuous maintenance-free projection.

SOLID SHINE Laser delivers requisite brightness even in bright environments.

Monitoring
Niigata Prefectural Police Department
(Traffic Control Center)
Japan
Why Choose Panasonic?

- Supports ET-DLE030 Ultra Short-Throw Lens to prevent shadowing and allow concealed installation in confined areas
- Geometry Manager Pro easily adapts wide-aspect images for projection to curved screen surfaces
- Lamp and filter-free design assures virtually no maintenance for up to 20,000 hours
- Lightweight, compact, and easily connected to suit modern interior designs

Equipment installed

1-Chip DLP™ Projector
PT-RZ670

Split-screen and window-in-window projection capabilities allow for presentation of diverse information sources simultaneously.

Clean, clear, crisp visibility at a distance means less stress and more comfort for employees.

Monitoring
Integrated Security Operating Center
Japan
Panasonic DLP™ System SOLID SHINE Projector Lineup

**3-CHIP DLP™ PROJECTOR**

**PT-RQ32K**
- **PT-RQ32K**
  - 27,000 lm (Center/High Mode) / 26,000 lm (High Mode)
  - 4K+

**PT-RQ13K**
- **PT-RQ13K**
  - 10,000 lm
  - 4K+

**PT-RZ12K Series**
- **PT-RZ12K**
  - 12,000 lm
  - WUXGA

**PT-RZ31K Series**
- **PT-RZ31K**
  - 31,000 lm (Center/High Mode) / 30,000 lm (High Mode)
  - WUXGA

**PT-RS30K**
- **PT-RS30K**
  - 31,000 lm (Center/High Mode) / 30,000 lm (High Mode)
  - SXGA+

**PT-RZ770 Series**
- **PT-RZ770/L PT-RW730/L**
  - 10,400 lm (Center) / 10,000 lm (High Mode)
  - WXGA

**PT-RZ660 Series**
- **PT-RZ660/L PT-RW620/L**
  - 6,200 lm (Center) / 6,000 lm (High Mode)
  - WXGA

**PT-RW930/L**
- **PT-RW930/L**
  - 10,000 lm (Center) / 9,400 lm (High Mode)
  - WUXGA

**PT-RX110/L**
- **PT-RX110/L**
  - 12,000 lm
  - SXGA+

**Note:** PT-RZ970/RW930/L/RX110L do not include a lens.

**Available in White**
- PT-RZ970 Series
- PT-RZ770 Series
- PT-RZ660 Series
Panasonic DLP™ System SOLID SHINE Projector Lineup

### 1-CHIP DLP™ PROJECTOR

#### PT-RZ570 Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumens</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-RZ570W</td>
<td>5,400 lm (Center) / 5,200 lm</td>
<td>WUXGA</td>
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<tr>
<td>PT-RZ570B</td>
<td>5,400 lm (Center) / 5,200 lm</td>
<td>WUXGA</td>
</tr>
<tr>
<td>PT-RZ575B</td>
<td>5,200 lm (Center) / 5,000 lm</td>
<td>WUXGA</td>
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#### PT-RZ470 Series

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<tr>
<td>PT-RZ470</td>
<td>3,500 lm</td>
<td>Full HD</td>
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<tr>
<td>PT-RW430</td>
<td>3,500 lm</td>
<td>WXGA</td>
</tr>
<tr>
<td>PT-RZ475</td>
<td>3,000 lm</td>
<td>Full HD</td>
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#### PT-RZ370 Series

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<tr>
<th>Model</th>
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<th>Resolution</th>
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<tr>
<td>PT-RZ370</td>
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<td>WXGA</td>
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<tr>
<td>PT-RW330</td>
<td>3,500 lm</td>
<td>WXGA</td>
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### Space Player

#### PT-JX200 Series

<table>
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<th>Model</th>
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<th>Resolution</th>
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<tr>
<td>PT-JX200HBU/JX200HWU/JX200GBE/JX200GWE/JX200GBD/JX200GWD</td>
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<td>XGA</td>
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<tr>
<td>PT-JX200FBU/JX200FWU/JX200FBE/JX200FWE</td>
<td>2,000 lm</td>
<td>XGA</td>
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</table>

#### PT-JW130 Series

<table>
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<th>Model</th>
<th>Lumens</th>
<th>Resolution</th>
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</thead>
<tbody>
<tr>
<td>PT-JW130HBU/JW130HWU/JW130GBE/JW130GWE/JW130GBD/JW130GWD</td>
<td>1,000 lm</td>
<td>WXGA</td>
</tr>
<tr>
<td>PT-JW130FBU/JW130FWU/JW130FBE/JW130FWE</td>
<td>1,000 lm</td>
<td>WXGA</td>
</tr>
</tbody>
</table>

### Track Mount Direct Mount (Ceiling/Wall)

- PT-JX200HBU/JX200HWU/JX200GBE/JX200GWE/JX200GBD/JX200GWD + ET-JPC200BU/JPC200WU/JPC200BE/JPC200WE
- PT-JX200FBU/JX200FWU/JX200FBE/JX200FWE + ET-JPF200BU/JPF200WU/JPF200BE/JPF200WE

### Direct Mount (Floor)

- PT-JW130FBU/JW130FWU/JW130FBE/JW130FWE + ET-JPF100BU/JPF100WU/JPF100BE/JPF100WE
Stunning Pictures from Panasonic’s SOLID SHINE DLP™ System

Outstanding Picture Quality

Unique Panasonic Technology Equals Superior Quality

HOW WE LEAD THE CLASS

Stable, Reliable Operation

Flexible Installation

Panasonic SOLID SHINE DLP™ based solutions outperform in three areas: image quality, economy and reliability, and installation flexibility. Extremely high brightness, pixel-free detail resolution, and precise color reproduction result in wholly immersive pictures in single or multi-projector configurations. Robustly engineered for year-round 24/7 operation with virtually no maintenance, and extending image and brightness quality further, SOLID SHINE Laser is shaped by professional end-user experience, and therefore fully equipped to deliver class-leading performance in any application.

Where Reference Imaging Meets Peak Efficiency

Panasonic 3-Chip DLP™ SOLID SHINE Laser projectors feature independent DLP™ modules for red, green, and blue, and a Color Filter Prism for accurate Rec. 709-compliant color performance. The blue laser light, meanwhile, ensures greater precision while an expanded color gamut improves white balance accuracy for natural and lifelike image reproduction.

1-Chip DLP™ with Quartet Color Harmonizer

Excellent Image Quality with Quartet Color Harmonizer

Quartet Color Harmonizer delivers better image quality than lamp-based systems with the efficiency benefit of laser. The design improves white balance for natural color expression and enhances brightness by maximizing available light through four discrete color channels. Panasonic’s LED/Laser hybrid source, meanwhile, combines technologies to extend life and improve color accuracy.

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Color Accuracy
Available light-source power is maximized through each color channel. The viewer is presented with a picture that closely resembles what is seen in real life.

Stable, Reliable Operation
Innovation Balances High Performance and Low TCO
Eco Filter Delivers Up to 20,000-hour Replacement Cycle
Select Panasonic 3-Chip DLP™ SOLID SHINE Laser projectors feature an Eco Filter incorporating an electrostatic Micro Cut Filter that collects minute dust particles with an ion effect. It joins a dust-resistant cabinet to enable long-term use even in punishing conditions. A long maintenance cycle of up to 20,000 hours reduces hassles, and the washable filter can be reused to reduce cost and waste. Select 1-Chip DLP™ SOLID SHINE Laser projectors, meanwhile, employ a filterless design.

Durable Laser Optical Engine for Dependable Operation
Selected models feature a Dual Drive Laser Optical Engine that features two discrete modules of laser diodes. A redundancy circuit ensures minimal reduction in brightness and color uniformity in the event of diode failure. A redundancy circuit ensures minimal reduction in brightness and color uniformity in the event of diode failure. Further, brightness is arrested in a linear rather than exponential decline over its 20,000-hour maintenance-free service life.

Flexible Installation
360-degree Free Installation
Select SOLID SHINE Laser projectors can be mounted vertically or horizontally through 360 degrees. This enables projection from virtually any angle.

Quick Start, Quick Off
By virtue of laser design, no warm-up or cool-down is required when operating select projectors. Images appear almost instantly from start-up, and the projector can be switched off from the mains.

Projection at Higher Altitudes
Select SOLID SHINE Laser projectors can be used with confidence at higher elevations than lamp-based products—up to 4,200 m while achieving 20,000:1 contrast even when bright and dark scenes frequently interchange, reducing power consumption.

Light Energy
Long Life 1
87,600 hrs
Long Life 2
Long Life 3
Eco Filter Delivers Up to 20,000-hour Replacement Cycle
Select Panasonic 3-Chip DLP™ SOLID SHINE Laser projectors feature an Eco Filter incorporating an electrostatic Micro Cut Filter that collects minute dust particles with an ion effect. It joins a dust-resistant cabinet to enable long-term use even in punishing conditions. A long maintenance cycle of up to 20,000 hours reduces hassles, and the washable filter can be reused to reduce cost and waste. Select 1-Chip DLP™ SOLID SHINE Laser projectors, meanwhile, employ a filterless design.

Guidelines for Dust Resistance
Particulate Matter per Cubic Meter in Different Environments

<table>
<thead>
<tr>
<th>Environment</th>
<th>WHO Europe Guidelines for Dust Resistance</th>
<th>Japanese Building Maintenance Association ADMA*4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean</td>
<td>0.030 mg/m³</td>
<td>0.110 mg/m³</td>
</tr>
<tr>
<td>Dusty / DUSTY</td>
<td>0.150 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Panasonic Dust Test Standard

Dynamic Contrast
Digital frame-by-frame scene-linking modulation ensures precise laser light output adjustment for 20,000:1 contrast even when bright and dark scenes frequently interchange, reducing power consumption.

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*20,000 contrast ratio featured on selected models only. See product-specific information for further details. *2 Usage environment may affect filter maintenance cycle. *3 Please refer to the product-specific information for further details. *4 Excluding PT-RZ570/RZ575/RZ570K/320K/120K/110K Series. Detailed tests are conducted to confirm operational effectiveness under conditions with 0.15 mg/m³ of particulate matter (based on tests by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) and the Japanese Building Maintenance Association). Measurements are made using a combination of ISO 13794-1:2005 and ISO 13794-2:2005 to confirm operational effectiveness under environmental and usage conditions. Panasonic recommends cleaning or checkup at point of purchase after 20,000 hours (approximation). Light source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. *7 At this time, brightness will have decreased by approximately half of its original level. Please refer to product specific condition information on the Panasonic website. Panasonic recommends cleaning or checkup at point of purchase after 20,000 hours (approximation).