Proven Endurance Delivers Better Results at Lower Cost

**CELL STRUCTURE**
Latent cell structure prior to testing as found in subject material

**EXPERIMENT**
Alter amino acid using solutions B and C and observe results

**RESULTS**
Minor changes to cell structures were observed, consistent with our thesis

**THESIS**
Altering amino acid composition will result in changed cell development

**INVENTORY**
Breakdown of current warehouse inventory according to product category

- **ELECTRONICS**
  Orange represents home electronics, the majority of current inventory

- **WHITE GOODS**
  White goods (including air conditioners) are the second largest inventory item

- **FURNITURE**
  Furniture stocks comprise the third largest category and consume most space

Broken down further, sales increases of electronics show immediate white good clearance is required

Ideal representation of stock composition going into the third quarter, showing reduced white stock inventory

Trends indicate continued growth in electronics. This graph shows our detailed inventory composition

Graph shows warehouse composition after stock purchasing recalibration according to current projections
1-Chip DLP™ Projector

PT-RZ570

Set a New Standard for Picture Quality and Low-Maintenance Endurance in Versatile Applications with Acclaimed SOLID SHINE Laser Technology

PT-RZ570W

PT-RZ570B

5,400 lm (Center) 5,200 lm WUXGA 20,000 : 1

1-Chip DLP™ Projector

PT-RZ575

Engineered for Unfailing Set-and-Forget Rear-Projection Reliability in Surveillance, Signage, and Exhibition Roles

PT-RZ575

5,200 lm (Center) 5,000 lm WUXGA 20,000 : 1
SOLID SHINE Laser: Engineered for Professionals, by Professionals

Bright, rich, high-contrast images don’t fade away fast with SOLID SHINE Laser. In fact, image quality and endurance outstrips that of competitive lamp projectors with almost no maintenance required. A deep set of practical features makes configuring these projectors for reliable 24/7 operation quick and simple in both permanent and temporary installations. Whether you choose the PT-RZ570 for its brilliant pictures in classrooms, boardrooms, or office meeting spaces, or the PT-R575 for its out-of-the-box rear-projection setup intended for surveillance centers, museums, and exhibitions, expect big savings and less stress with superior all-round imaging performance.

Excellent Picture Quality

Bright Pictures in WUXGA

SOLID SHINE Laser is paired with the latest 1-Chip DLP™ technology to guarantee bright and detailed pictures. Powerful solid-state light source and four-segment color wheel boosts color performance without sacrificing brightness.

Image Quality Maintained

Anti-Dust Protection

These projectors are virtually dustproof thanks to sealed optics. Forget downtime: with no lamp or filter replacement, and the image-degrading effect of dust minimized, you can expect about 20,000 hours* of maintenance-free projection with consistently brilliant picture quality.

* Panasonic recommends cleaning or checkup at point of purchase after 20,000 hours (approximately). Light source lifetime may be reduced depending on environmental conditions. Dustproof 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 acceleration tests.

Low Running Costs

Low Total Cost of Ownership

SOLID SHINE Laser projectors are cheaper to run, end of story. They require almost no maintenance, and with a variety of ECO features, use much less energy to operate continuously.

Instant Projection

Quick Start* and Quick Off

Because the PT-RZ570 Series is powered by SOLID SHINE Laser, you can turn the projector on and off any time you like. With Quick Startup Mode, projection begins in about one second*. No warm up period, no wait.

* When ECO MANAGEMENT > QUICK STARTUP is set to ON. Quick Start is unavailable after Available Period setting has expired. When QUICK STARTUP is set to ON, the projector continues to warm up, increasing power consumption.

Free Installation

360-degree Projection

SOLID SHINE Laser projectors can be mounted vertically or horizontally through 360 degrees. This flexibility enables projection from virtually any angle.

Reduced Operational Noise

Quiet Running

A variety of technologies work together to reduce operational noise to just 26 dB* in Silent Mode, minimizing distracting noise and keeping audiences focused on the presentation.

* In Silent Mode. 33 dB in Normal Eco Mode.
Achieving High Brightness and Accurate Colors with SOLID SHINE Laser and DLP™ Imaging Technology

SOLID SHINE Laser Enhanced with the Latest DLP™ Technology

Together with the latest DLP™ module for detailed WUXGA resolution and new-generation solid-state laser diodes for high brightness, PT-RZ570 Series’ outstanding performance stems from a Quartet Color Harmonizer wheel mechanism that reduces light energy loss while combining four segments to produce purer white. A heat-resistant phosphor wheel and optimized laser drive, meanwhile, boost perceived brightness and improve color accuracy.

Natural White Balance

Quartet Color Harmonizer is able to capture a wider section of the color gamut than comparable projectors, which in turn allows the mechanism to reproduce white more realistically on screen. In conventional projectors, if an ideal white balance isn’t achieved, images can appear with a distracting greenish tint.

Laser Module Maintains Picture Quality for Longer

Thanks to the long-lasting laser light-source module, there are no lamps to replace. Color and brightness degrades more gradually and in a linear rather than exponential fashion. As well as reducing maintenance hassle, picture quality is maintained for longer.

Rich Color Enhancer

Rich Color Enhancer offers a Dynamic Mode setting to increase image brightness, or Graphic Mode/Standard Mode, which adjusts color-wheel timing to produce deeper, richer colors in rooms where maximum brightness is unnecessary.

Dynamic Mode - for Brighter Images

Standard / Graphic Mode - for Colorful Images

Laser Module Maintains Picture Quality for Longer

Thanks to the long-lasting laser light-source module, there are no lamps to replace. Color and brightness degrades more gradually and in a linear rather than exponential fashion. As well as reducing maintenance hassle, picture quality is maintained for longer.

Convenient Features Make Life Easy

Silent 28 dB*1 Operation

Efficient cooling, color-wheel speed control, and light output efficiency helps keep operational noise down to a nearly inaudible 28 dB*1 to let the audience immerse more deeply in presented content.

Auto Screen Image Rotation

Images are automatically*2 rotated depending on installation orientation—upside down on the ceiling or set on a table—using a built-in angle sensor.

Free 360-degree Rotation

Projection is possible in any direction vertically and horizontally, and the unit can be rotated 360 degrees for installation at any angle.

Quick Start*3 and Quick Off

The laser light source does not require any warm-up time, so images appear almost instantly (about one second*3) with PT-RZ570 Series projectors. There’s also no cooling time required when turning the power off. Users can turn the projector on and off whenever necessary.

*1 In Silent Mode. 33 dB in Normal/Eco Mode. *2 Manual setting also available via setup menu. *3 When ECO MANAGEMENT > QUICK STARTUP is set to ON. Quick Start is unavailable after Available Period setting has expired. When QUICK STARTUP is set to ON, the projector continues to warm up, increasing power consumption.

100% Lamp-based 1-Chip DLP™ projectors
Outstanding Brightness and Picture Quality

Dynamic Contrast Function
The PT-RZ570 Series features technology that directly modulates laser power output, enabling high contrast while reducing power consumption. Digitally controlled frame-by-frame scene-linking modulation precisely adjusts light output, achieving accurate 20,000:1*4 contrast even when bright and dark scenes suddenly or frequently interchange.

Daylight View Basic Produces Crisp Images in Bright Rooms
Panasonic’s Daylight View Basic technology achieves sharp, comfortably viewed images by enhancing detail, particularly in dark areas of the image that are normally difficult to see in brightly lit rooms. A built-in sensor measures ambient light while Daylight View Basic adjusts halftone color and brightness according to the surrounding level of illumination.

Detail Clarity Processor 3 Sharpens Fine 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 are expressed with natural realism.

DICOM Simulation Mode*5
This imaging mode is similar to the DICOM Part 14 medical imaging standard. It lends a film-like resolution to X-ray images, making the PT-RZ570 Series ideal for medical presentations and training.

Conventional Projector Daylight View Basic
Dynamic Contrast Function
The PT-RZ570 Series features technology that directly modulates laser power output, enabling high contrast while reducing power consumption. Digitally controlled frame-by-frame scene-linking modulation precisely adjusts light output, achieving accurate 20,000:1*4 contrast even when bright and dark scenes suddenly or frequently interchange.

Efficient Cooling System
Heat-pipe cooling for the laser light source and a heavy-duty heat sink for the DLP™ chip keep images crisp and bright while reducing fan speed, lowering noise levels and preventing distractions in quiet environments.

Dust-Resistant Airtight Optical Block
PT-RZ570 Series’ optical block—the heart of these projectors—is airtight. The design has passed stringent testing to assure reliable operation in dusty environments with 0.15 mg of particulate matter per cubic meter (based on American Society of Heating, Refrigerating, and Air-Conditioning Engineers [ASHRAE] and Japanese Building Maintenance Association guidelines). The structure prevents brightness degradation from dust intrusion. PT-RZ570 Series ensures consistent and long-lasting image quality for up to 20,000 hours*6 without maintenance.

Long-lasting Reliability and Low Maintenance

*4 With Dynamic Mode and Dynamic Contrast set to ON. *5 This product is not a medical instrument. Do not use for actual medical diagnosis. *6 Panasonic recommends cleaning or checkup at point of purchase after 20,000 hours (approximately). Light source lifetime may be reduced depending on environmental conditions. Original 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 acceleration tests.
Versatile Wide-range 2.0x Zoom with Lens Shift

The general-purpose PT-RZ570 features a versatile 2.0x zoom and handy joystick-operated wide-range lens shift. This grants flexibility for installation in different rooms and for projection onto different screens. To produce a 100-inch-diagonal wide-screen image, projection distance extends from approximately 3.1 m (10.2 ft) to approximately 6.3 m (20.7 ft).

Note: The PT-RZ575 features a fixed-focus lens with powered lens shift.

Ready for Custom Rear-Projection Applications with Fixed Short-Throw Lens

The PT-RZ575 incorporates short-throw lens intended for rear projection. The projectors combine SOLID SHINE Laser’s high picture quality, reliability, and very low maintenance in a configuration that’s adapted to rear-projection box-projection applications in control rooms, surveillance centers, and for roles in digital retail signage and museum or event exhibition. The projectors are ready for quick and easy multi-screen setup with Panasonic’s optional and custom-fabricated Multi-Vision Box with Multi Window Processor (ET-MWP100G).

Built-in Short-Throw Lens with Powered Lens Shift

With the included lens, required projection distance is about 1.2 m (3.9 ft) to produce a 70-inch-diagonal image. For convenience in box installations, powered focus and horizontal/vertical lens-shift adjustment is easily performed with the remote controller.

* Lens-shift function is for minor adjustment in multi-screen installations. Lens shift range differs from the PT-RZ570. Please refer to specifications for further details.

Single-Cable DIGITAL LINK Audio-Video and Control Connection

DIGITAL LINK supports transmission of uncompressed Full HD video, audio, and control commands through a single CAT 5e or higher STP cable for distances of up to 150 m (492 ft)¹. Add an optional DIGITAL LINK Switcher or Digital Interface Box to further simplify installation in large venues while reducing cost and improving reliability at the same time.

Art-Net DMX Compatible

PT-RZ570 Series is compatible with Art-Net DMX protocol for lighting management. Art-Net compatibility allows the projector to be connected to a lighting console with easy control of functions.

Fade In and Fade Out

Digital laser output power modulation technology also enables a handy Fade In/Fade Out function for a smoother presentation.

Up to 10 Years² Operation with Constant Brightness Modes

In environments where full brightness is not necessary, such as surveillance, control, and simulation rooms, constant operation modes extend light-source replacement to up to 87,600 hours² in Long Life 3 Mode—about 10 years of 24/7 projection—with consistent brightness and color.

¹ 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080/60p (dot-clock frequency 148.5 MHz). *2 With Operating Mode set to Long Life 3. Long Life Mode is tested in a rear-box projection environment, which is not compliant with ASHRAE. 24 hours/day x 365 days/year x 10 years = 87,600 hours. Replacement of parts other than the light source may be required in a shorter period.
**Edge Blending and Color Matching**

Adjoining edges in a multi-screen system can be blended to create a smooth and seamless image. Slight variations in the color reproduction of individual projectors can be corrected in multi-screen applications.

**Picture-in-Picture Capability**

Two different image sources can be simultaneously displayed on a single screen: for example video via HDMI1 can be projected together with content from Computer 2 or DIGITAL LINK.

**Screen Adjustment for Specially Shaped Screens**

Horizontal, vertical, and corner keystone correction adjusts the image shape for clear visibility when projecting off-axis or from an unusual angle. Curved Screen Correction allows for the projection of natural, distortion-free images onto curved or cylindrical surfaces.

**ECO Management System**

Push the ECO button on the remote control to set up Eco Management functions, including automatic brightness reduction in dim ambient conditions, and power consumption reduction when no input signal is detected.

**Terminals**

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<th>Terminal Description</th>
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<td>COMPUTER 1 IN terminal</td>
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<td>AUDIO IN 1 terminal</td>
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<td>10</td>
<td>SERIAL IN terminal</td>
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<tr>
<td>11</td>
<td>AUDIO IN 2/3 terminal</td>
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<tr>
<td>12</td>
<td>AUDIO OUT terminal (Variable)</td>
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<tr>
<td>13</td>
<td>USB terminal (Power supply only)</td>
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</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
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**Optional Accessories**

- ET-PKD120H Ceiling Mount Bracket (for High Ceiling)
- ET-PKD120S Ceiling Mount Bracket (for Low Ceiling)
- ET-YFB100G Digital Interface Box
- ET-YFB100G Switcher
- ET-YFB200G DIGITAL LINK Switcher
- ET-MWP100G Multi Window Processor
- ET-SWA100 Series Early Warning Software
- ET-ADSV D-sub/S-VIDEO Conversion Cable

* Use ET-PKD120H Ceiling Mount Bracket (for High Ceiling) and ET-PKD120S Ceiling Mount Bracket (for Low Ceiling) in combination with ET-PKD130B Projector Mount Bracket.

For more information, please visit our global website: [https://panasonic.net/cns/projector/](https://panasonic.net/cns/projector/)
Specifications

Model: PT-RZ750/PT-RZ757

Power supply: AC 100 - 240 V, 50/60 Hz

Power consumption: 500 W (520 VA, 100/200 V), Normal: 375 W, Eco: 350 W, Silent: 350 W, Shutter: 40 W. Operating temperature: 25 °C (77 °F), altitude: 700 m (2,297 ft), ECO0817-2008 Broadcast Content, Picture Mode: Standard, Dynamic Contrast: ON, 0.5 W with STANDBY MODE set to ECO* 1, 1 W with STANDBY MODE set to Normal (2 W with STANDBY MODE in AUDIO SETTING set to ON and QUICK STARTUP function disabled, 50 W with QUICK STARTUP function enabled).

DLP™ chip

Panel size: 17.0 mm (0.67 inches diagonal (16:10 aspect ratio))

Display method: DLP™ projector x 3, DLP™ projection system

Pixels: 2,304,090 (1920 x 1080 x 3)

Lens

Manual zoom (2/2 manual focus: 1.46 x - 2.94 x), F 2.3 - 4.1, 21.5 - 43.0 mm

Light source

Lasers (Laser Class: Class 1) x 3 (Class 3 for North America), Laser lifetime: 20,000 hours at half luminance (Normal Mode; Temperature: 35 °C [95 °F], altitude: 700 m (2,297 ft), Dust: 0.15 mg/min)

Screen size (diagonal): 1.02 - 7.62 m (40 - 300 inches)

Brightness

5,400 lm (Center) / 5,200 lm (Silent), 5,200 lm (Center) / 5,000 lm (Normal mode)

Center-to-corner uniformity* 2

95 %

Contrast* 2

20,000:1 (Full On/Full Off, Dynamic Mode and Dynamic Contrast: ON)

Resolution

1920 x 1080 pixels

Scanning frequency

HDMI/DVI-D/DIGITAL LINK: 60/59.94 Hz (progressive), 59.94 Hz (interlaced)

YPbPr (YCbCr)

480i (ntsc): 15.73 kHz, 59.97 Hz

480p (ntsc): 15.63 kHz, 50 Hz

576i (pal): 15.73 kHz, 50 Hz

576p (pal): 15.63 kHz, 50 Hz

1080i (ntsc): 15.73 kHz, 59.94 Hz

1080p (ntsc): 15.63 kHz, 50 Hz

1080i (pal): 15.73 kHz, 50 Hz

1080p (pal): 15.63 kHz, 50 Hz

1125 (1080)/50p: 15.64 kHz, 50 Hz

1125 (1080)/60p: 15.73 kHz, 59.94 Hz

1125 (1080)/50i: 15.64 kHz, 50 Hz

1125 (1080)/60i: 15.73 kHz, 59.94 Hz

1125 (1080)/50p: 15.64 kHz, 50 Hz

1125 (1080)/60p: 15.73 kHz, 59.94 Hz

Terminals

HDMI IN

HDMI 19 pin (x 2, Deep Color, compatible with HDCP), Audio signal: Linear PCM (sampling frequency: 48 kHz/144 kHz/32 kHz)

DVI-D IN

DVI-D 24 pin (x 1, compatible with HDCP, compatible with single link only)

COMPUTER 1 IN

D-sub 15-pin female x 1 (RGB/YPbPr/YCbCr/YCrC)

COMPUTER 2 IN/OUT

D-sub 15-pin female x 1 (RGB/YPbPr/YCbCr/YCrC)

VIDEO IN

Pin jack x 1 (composite video)

AUDIO IN 1

Pin jack x 2 (R, L)

AUDIO IN 2/3

M3 x 1 x 2 (variable)

AUDIO OUT

M3 x 1

SERIAL IN

D-sub 9-pin female x 1 for external control (RS-232C-compliant)

LAN

RJ-45 x 1 for network connection, 10Base-T/100Base-TX, compatible with Art-Net, compliant with PJLink™ (Class 1)

DIGITAL LINK

RJ-45 x 1 for network (DIGITAL LINK connection intolerant of network/nodal control, 1000BASE-T, compatible with Art-Net, Deep Color, HDCP, compliant with PJLink™ (Class 1)

USB

Type A x 1 / DC output for power supply (DC 5 V, max. 900 mA)

Cabinet materials

Molded plastic

Dimensions (W x H x D)

498 x 168 x 481 mm (19 5/8˝ x 6 5/8˝ x 19 3/8˝), 498 x 168 x 481 mm (19 5/8˝ x 6 5/8˝ x 18 15/16˝)

Weight* 3

Approximately 16.3 kg (35.9 lbs) / Approximately 16.6 kg (36.6 lbs)

Power cord with secure lock x 1 (x 2 for EU models), wireless remote control unit x 1, batteries for remote control (R03/AAA or LR03/AAA type x 2), software CD-ROM (Logo Transfer Software, Multi Monitoring & Control Software x 1)

Operation noise* 2

28 dB (Silent Mode), 33 dB (Normal/Eco Mode)

Operating environment

Operating temperature: 0–45 °C (32–113 °F)* 9, operating humidity: 10–80 % (no condensation)

Picture quality

Picture Mode: Standard, Dynamic Contrast: ON, 0.5 W with STANDBY MODE set to ECO* 1, 10 W with STANDBY MODE set to Normal (22 W with STANDBY MODE in AUDIO SETTING set to ON and QUICK STARTUP function disabled, 50 W with QUICK STARTUP function enabled).

Lamp Life

7,500 hours (Normal Mode), 6,000 hours (Silent Mode), 5,400 hours (Eco Mode)

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.

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For more information about Panasonic projectors, please visit: Projector Global Website – www.panasonic.net/cns/projector

Facebook – www.facebook.com/panasonic

YouTube – www.youtube.com/user/PanasonicProjector

All information included here is valid as of April 2017.

Projection distance

Unit: meters (feet)

PT-RZ750 (16:10 aspect ratio)

Projection distance (L)

Height from the edge of screen to center of lens (H)

Projection image size (L x W)

Projection image size (L x W)

PT-RZ757 (16:10 aspect ratio)

Projection distance (L)

Height from the edge of screen to center of lens (H)

Projection image size (L x W)

Projection image size (L x W)

Picture quality

Picture Mode: Standard, Dynamic Contrast: ON, 0.5 W with STANDBY MODE set to ECO* 1, 10 W with STANDBY MODE set to Normal (22 W with STANDBY MODE in AUDIO SETTING set to ON and QUICK STARTUP function disabled, 50 W with QUICK STARTUP function enabled).

Lamp Life

7,500 hours (Normal Mode), 6,000 hours (Silent Mode), 5,400 hours (Eco Mode)