Panasonic

PT-RZ475 Series
1-Chip DLP™ Projectors

Ideal for Rear Projection—
Extremely Long-Term Continuous Operation
The PT-RZ475, a new Panasonic SOLID SHINE projector member, has no lamps or air filters, allowing it to achieve an extraordinarily long period of maintenance-free operation. This high-performance LED/Laser projector boasts up to 87,600 hours*1 of continuous operation, i.e., about 10 years of 24/7 projection, while maintaining excellent brightness and picture quality. The total cost of ownership (TCO) has also been reduced because you no longer have to keep replacement lamps and filters on hand. Equipped with a high-precision short-throw lens, the PT-RZ475 is ideal for rear projection, for use in monitoring/control rooms, or for digital signage.
**Long-Lasting Reliability**

**Outstanding Approx. up to 10 Years** of Continuous Operation

This new LED/Laser-combined light source requires no maintenance for approximately up to 10 years. In many cases, this means no maintenance until your next refresh cycle. Naturally, there are no lamp burnout problems during use, so reliability is further increased. There is also no filter to clean due to carefully engineered sealed optics. As a consequence, running cost is dramatically lowered because of the savings on lamp costs, maintenance labor and hassle of stocking lamps.

**Beautiful Picture Quality for a Long Period of Time with 24/7 Operation**

The rate of brightness deterioration in the LED/Laser-combined light source is extremely slow compared to lamp-based projectors. The SOLID SHINE drive uses a built-in sensor to constantly detect the intensity of the light source and correct corresponding changes in white balance. This all helps to maintain excellent picture quality for a long period of time. Contrast is outstanding too, at 20,000:1, and images are reproduced with a wide dynamic range. There is also no filter to clean due to carefully engineered sealed optics. As a consequence, running cost is dramatically lowered because of the savings on lamp costs, maintenance labor and hassle of stocking lamps.

**High Picture Quality**

**Superior Color Reproduction**

The LED/Laser-combined light source has a higher level of color purity than an ordinary lamp, allowing it to achieve color reproduction with wider color space. Colors are more vibrant than those of conventional projectors.

**Dust-Resistant Structure with an Airtight Optical Block**

The area between the LED/Laser to the DLP™ chip and prism is hermetically sealed to form an airtight structure for the optical block, the heart of the projector. This resists the effects of dust and other particles in the air, and enables use of the projector in a wide range of environments.

**Image Appears Immediately—No Need for Cooling after Use**

Images do not appear quickly with lamp-based projectors because the projector requires time to warm up. With the PT-RZ475, the image appears almost instantly. There’s also no cooling time required when turning the power off, so you can quickly turn the projector on and off as many times as needed.

**Connection 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-RZ475 allows transmission of HDMI, uncompressed HD digital video, audio 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, the installation of this projector is easier than ever, without any need for external receivers. The input signal can also be easily switched.

---

*2 The operating temperature range is 0 °C to 40 °C (32 °F to 104 °F) when used in locations from 1,400 m to 2,700 m (4,593 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.

*3 With LIGHT SOURCE MODE set to NORMAL.

*4 Picture mode: Dynamic. 10× drive in other picture modes. The rate for each vertical sync/blanking interval, with R/G/B light source switching set to 1×.

*5 A condition in which incorrect color expression causes color flickering.
from control panel or remote control of the projector to enable attractive presentations or lessons using multimedia content.

Abundant Connection Terminals
Interfaces include HDMI and DVI-I inputs. The serial terminal (RS-232C) has an Emulate function that lets you continue using existing control systems when replacing previous Panasonic models. It is also possible to output audio during Standby mode*. This is convenient when connecting an external audio system through the projector*9. A closed caption decoder is built in.

Easy Remote Monitoring and Control over a LAN
Web browser on a computer connected through a wired LAN system lets you remotely operate projectors and check their status. An e-mail messaging function can also notify you the projector status. An additional 3D IR transmitter can be connected 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".*11

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".*11

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.

- **Color Matching**
  This function corrects for slight variations in the color reproduction range of individual projectors.

- **Color Matching**
  This function corrects for slight variations in the color reproduction range of individual projectors.

- **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".*11

- **Portrait Mode Capability**
  Portrait mode allows the projector to be mounted with its side surface facing down**, for projecting onto a long, vertical screen. The optional ET-PKR100P ceiling mount bracket for portrait projection is also available.

- **Portrait Mode Capability**
  Portrait mode allows the projector to be mounted with its side surface facing down**, for projecting onto a long, vertical screen. The optional ET-PKR100P ceiling mount bracket for portrait projection is also available.

- **Portrait Mode Capability**
  Portrait mode allows the projector to be mounted with its side surface facing down**, for projecting onto a long, vertical screen. The optional ET-PKR100P ceiling mount bracket for portrait projection is also available.

- **Portrait Mode Capability**
  Portrait mode allows the projector to be mounted with its side surface facing down**, for projecting onto a long, vertical screen. The optional ET-PKR100P ceiling mount bracket for portrait projection is also available.

3D Projection Capability
The PT-RZ475 can deliver impressive 3D images when viewed with active 3D glasses.*13.

- The HDMI input terminal supports 3D to project Blu-ray 3D images.
- DLP™ Link*: You can build a 3D system without the need for the optional transmitter.
- An additional IR transmitter can be connected to the projector’s 3D SYNC OUT terminal.

Other Features
- Daylight View Basic ensures clear images even in brightly lit rooms.
- DICOM simulation mode*14 for clear X-ray images.
- Rec. 709 mode for HDTV projection.
- Compatible with Crestron Connected™
- 15 m (49 ft) long-range wireless remote control.
- Scheduling function.
- Flexible 360-degree installation
- A unique ID number can be assigned to each projector using the supplied wireless remote control unit.
- A lens-centered, symmetrical design provides a ease of installation.
- Customized startup logo: You can change the default Panasonic start up logo to any logo you want.*15
- Security features include a security bar, key lock, and security password.

Ecology-Conscious Design
- Lamp-free (no mercury)
- Low heat dissipation
- RoHS Directive compliant
- No halogenated flame retardants are used in the cabinet.
- Lead-free glass is used for the lens.
- Light source mode is selectable to reduce power consumption.
- “ECO” button on the remote control for easy setting up of Eco Management functions.
- Standby power consumption of only 0.5 W has been achieved. (Power save: eco)
- An Auto OFF Timer switches the projector to standby mode when no input signal is received for a preset time.

*6 Crestron’s DigitalMedia 8G+™, Extron’s XTP Systems and AMX’s Zeno DX
*7 Input selection and other ET-YFB100G operations can be performed only when connecting to a DIGITAL AND LINK compatible projector.
*8 Requires menu selection.
*9 Audio monitoring requires external speakers and an audio amplifier.
*10 Consult your dealer for information about color matching software.
*11 If the temperature of the projector’s surroundings is elevated, light output may be reduced in order to protect the projector unit. If this software is used for the brightness control of multiple projectors, please ensure that as far as possible the temperature of the surroundings is the same for all projectors.
*12 The projector itself cannot be set vertically by itself. Also, the side with terminals should be facing downward. Using the projector at an angle that exceeds the available angle of 210° may result in malfunctions. If setting up the projector at an angle that exceeds 210° is required, consult your dealer.
*13 To view 3D images, active-shutter 3D glasses are separately required. In the active shutter system, the right/left liquid crystal shutter is opened and closed alternately according to projected images.
*14 This product is not a medical instrument. Do not use for actual medical diagnosis.
*15 A new logo can be uploaded by connecting a computer to the PT-RZ475 through the LAN or serial connection by using the Logo Transfer Software. Still images that can be uploaded are limited to 1024 x 768 pixel bitmap files. Also, the application will reduce the number of colors to 191.
**ET-MWP100G Multi Window Processor**

**Turnkey Solution for Multi Window Presentations**

The ET-MWP100G Panasonic Multi Window Processor makes it possible to quickly and efficiently combine multiple PT-RZ475 projectors into a multi vision system. Equipped with 16 slots for input/output terminals, the ET-MWP100G enables a combination of 5 optional interface boards, including a DIGITAL LINK output board, to support a variety of input sources and output devices. Interface boards are also easy to add or change, making the system highly flexible even after it has been configured. Images can be split among multiple display units, and multi-windows (PinPs) can be freely allotted in desired sizes, locations, inclinations and overlapping orders. Display patterns can be registered and switched by control software for Multi Window Processor, which is included with the ET-MWP100G, installed onto a PC. Even with interface boards mounted onto all 16 slots, the ET-MWP100G features low power consumption of 160 W or less, helping to lower the total cost of ownership (TCO) in 24/7 continuous operation.

**Major ET-MWP100G Features**

- Dedicated “Control Software for Multi Window Processor” supplied
- 360° output rotation
- Simultaneous use of multiple layouts and canvases
- One or more windows (PinPs) on each canvas with 360° rotation of each window
- 16 interface board slots
- Easy addition and replacement of optional interface boards
- Low power consumption of max 160 W*16 with 16 interface boards mounted
- DIGITAL LINK compatibility (when the ET-MCQDL350 interface board mounted)
- Capability of up to 28 inputs with the ET-MCYDV100 DVI-U and ET-MCYSD200 3G/HD/SD-SDI interface boards
- Up to 56 inputs with the ET-MCYSD210 HD/SD-SDI interface board
- Capability of up to 28 outputs with the ET-MCQDV150 DVI-U and ET-MCQDL350 DIGITAL LINK interface board

---

**System Connection Example**

![System Connection Diagram]

*16 When using a single power supply unit. The power consumption becomes 180 W when the optional ET-RPS100 power supply unit is added.
*17 Input/output interface boards must be mounted.
*18 The control software for Multi Window Processor, which is included with the ET-MWP100G, must be installed.
Specifications

**Model**: PT-RZ475

- **Power supply**: 100~240 V, A/C, 50/60 Hz
- **Power consumption**: 430 W (440 W) in operation, 0.55 W in standby mode
- **DLP®** chip: Panel size: 1.92 x 1.00 inches, Display method: DLP
- **Lens**: Fixed, f: 8.1, f: 11.9 mm
- **Throw ratio**: 1.0:1
- **Light output**: 3,810 lumens, (ECO mode: 3,000 lumens)
- **Screen size (diagonal)**: 1.02~5.08 m (40.5~200 inches), 16:9 aspect ratio
- **Brightness**: 90 %
- **Contrast**: 20,000:1 (full on/off)
- **Resolution**: 1,280 x 800 pixels (input signals that exceed this resolution will be cropped)
- **HDMI/DVI-I (digital/analog) / RGB YPbPr (YCbCr)**: 24-bit color, compatible with HCCP
- **3D SYNC OUT**: 3D sync signal
- **Input terminals**: HDMI/DVI-I, RGB YPbPr (YCbCr)
- **Analog signal**: Composite: 1.0 Vp-p, 75 ohms, Component: 0.7 Vp-p, 75 ohms
- **Digital**: HDMI-type DVI-I, DVI-D, RGB YPbPr (YCbCr), RGB
- **RGB**: 0.7 Vp-p, 75 ohms
- **Kensington lock**: with secure lock
- **Power cord**: supplied
- **Operating temperature**: 0~40 °C
- **Optional accessories**: Multi Projector Monitoring & Control Software
- **Weight**: 17.5 kg (39.4 lbs)
- **Noise level**: 35 dB (Loud Power Mode, Normal)
- **Dimensions (W x H x D)**: 445 (17.1) x 300 (11.8) x 300 (11.8) inches
- **Height**: 2.08 m (80 inches)
- **Depth**: 1.39 m (55 inches)
- **Width**: 0.67 m (26 inches)

**Projection Distance**

<table>
<thead>
<tr>
<th>Projection size (diagonal)</th>
<th>Projection distance</th>
<th>Height from the edge of screen to center of lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>[m]</td>
<td>[in]</td>
<td>[ft]</td>
</tr>
<tr>
<td>0.65</td>
<td>26</td>
<td>8.5</td>
</tr>
<tr>
<td>0.85</td>
<td>33</td>
<td>10.9</td>
</tr>
<tr>
<td>1.0</td>
<td>40</td>
<td>13.1</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. Do not set it in a rain, malfunction, or dust or smoke area.
2. Please observe the following precautions:
   - Never place objects on top of the projector while it is in operation.
   - Make sure there is an unobstructed space of 600 mm (11.8 in) or more around the projector’s exhaust openings.
   - Do not block the projector units directly on top of one another for the purpose of multiple (stacked) projection. When stacking projector units, be sure to provide the amount of space indicated below between them. These space requirements also apply to installations where only one projector unit is operating at one time and the other unit is used as a back-up.
   - Make sure that nothing blocks the projector’s air intake and exhaust openings. Also, install the projector so that cool or hot air from other air conditioning equipment does not flow directly toward the projector’s air intake or exhaust openings.
   - Do not install the projector in an enclosed space. If it is necessary to install it in an enclosed space, add a separate ventilation system. If ventilation is insufficient, hot air will accumulate at the intake opening. This may cause the projector’s protective circuit to interrupt projector operation.
   - If the projector is placed in a box, ensure that 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 openings.
   - To install and use the projector via a method that does not use the adjustable feet or floor standing installation, fix the projector using the four screw holes for ceiling mounting. (Screw diameter: M4, tapping depth fixed in the set: 10 mm, torque: 1.25 to 0.2 N·m)

**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™ logo and DLP Medallion logo are trademarks or registered trademarks of Texas Instruments. The projection distances and throw ratios given in this leaflet are for use only as guidelines. For more detailed information, please consult the dealer from whom you are purchasing the product. The PT-Link trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. 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.**

© 2013 Panasonic Corporation. All rights reserved.

Panasonic

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™ logo and DLP Medallion logo are trademarks or registered trademarks of Texas Instruments. The projection distances and throw ratios given in this leaflet are for use only as guidelines. For more detailed information, please consult the dealer from whom you are purchasing the product. The PT-Link trademark is an application trademark in Japan, the United States, and other countries and regions or registered trademarks. 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.

© 2013 Panasonic Corporation. All rights reserved.

For more information about Panasonic projectors, please visit: Projector Global Web Site – panasonic.net/avc/projector Facebook – www.facebook.com/panasonicprojector YouTube – www.youtube.com/user/PanasonicProjector

All information included here is valid as of June 2013.

PT-RZ475G1 Printed in Japan.