Illuminate the Spectacular with Smaller, Lighter, Brighter Laser.
E D U C A T I O N

HOW THE GAME-CHANGING PT-RZ120 CAN REVITALIZE YOUR SUCCESS

PT-RZ120/RZ120L 1-Chip DLP™ Projectors

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*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118:2012 international standards. Value is average of all products when shipped. *2 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. *3 With Dynamic Contrast Mode set to 3. *4 Around this time, light output will have decreased by approximately 50%. *5 Average light-output value of all shipped products measured at center of screen in NORMAL Mode. *6 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080p in Long Reach Mode. *7 ET-YFB200G Switcher and ET-YFB100G Interface Box are not compatible with 4K signals. *8 Some configuration data cannot be copied. Function is supported among identical projector models only. *9 Lens shift is +40 %, -16 % (V) / +19 %, -10 % (H) with ET-DLE060, and +50 %, -16 % (V) / +28 %, -10 % (H) with ET-DLE085/ET-DLE105. Lens shift is not supported on the PT-RZ120B. *10 20,000-hour maintenance-free operation useful when the projector is difficult to access. *11 Panasonic recommends cleaning or checkup at point of purchase after every 20,000-hour period (approximately). *12 Panasonic recommends cleaning or checkup at point of purchase after every 20,000-hour period (approximately). *13 Part number varies depending on environment. *14 This product is not a medical instrument. Do not use for actual medical diagnosis. *15 Use ET-PKD130H/PKD120H/PKD120S in combination with ET-PKD130B Projector Mount Bracket (sold separately). *16 Multi Monitoring & Control Software Ver. 2.0 or later is required. Please download from the following website: https://panasonic.net/cns/projector/download/application/.

Class-beating picture quality in bright venues

Superior brightness, color, and contrast delivered in a compact body

• 1-Chip DLP™ Technology with SOLID SHINE Laser Creates Fully Immersive 12,000 lm*1 Pictures at WUXGA
  Dual solid-state lasers and original phosphor wheels develop high brightness, color accuracy, contrast, and resolution, with consistent color uniformity producing spectacular images ideal for large-format multi-screen projection.

• System Daylight View 3
  Original Panasonic technology prevents washout in bright rooms and boosts impact in projector-mapping installations. It adjusts sharpness, gamma curves, and colors in real time.

System-beating brightness, color, and contrast delivered in a compact body

• Filterless Projector Structure with Airtight Optical Block
  A refined heat-sink-based cooling system and dust-resistant projector structure opens the door to hermetically sealed optics. Now impervious to dust, air filters and associated maintenance are a thing of the past. This original filterless design contributes to 20,000 hours*4 of maintenance-free operation, useful when the projector is difficult to access.

• Engineered for Continuous 24/7 Projection
  Dual-drive laser engine groups diodes into two discrete modules. A redundancy circuit minimizes brightness- and color-uniformity loss should a laser diode fail, enhancing reliability for 24/7 continuous projection. Potential applications include monitoring, surveillance, signage, and public display.

• Compact, Lightweight, and Flexible Design
  Extracting even higher brightness from a projector that’s the same size as our award-winning PT-RZ970/PT-RZ770 series, the RZ120 is easy to handle and designed to reduce installation labor.

Perfect for high-ceiling installation

Long-life design with a compact body

Black Models: PT-RZ120B

White Models: PT-RZ120W

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Black Models: PT-RZ120B

White Models: PT-RZ120W
Flexible installation, streamlined setup, and great adaptability

- **Supports 4K Signal Input**
  The RZ120 supports uncompressed 4K signal input via HDMI® or DIGITAL LINK, enabling future-ready system integration that’s compatible with 4K signal input.
  
  Note: Images are converted to Full HD (1920 x 1080) upon video projection.

- **Single-Cable DIGITAL LINK Solution**
  Upward HDBaseT™-compatible DIGITAL LINK transmits video/control commands through a single STP cable for distances of up to 150 m (492 ft) for Full HD and 50 m (164 ft) for 4K video.
  Optional ET-YFB2000G/ET-YFB1000G further streamlines installation.

- **Separate LAN/DIGITAL LINK Terminals**
  Separate terminals for LAN and DIGITAL LINK enhance versatility. Installers can assign 100Base-TX and 10BaseT® compatible control signals via LAN terminal, freeing up DIGITAL LINK for video.

- **Data Cloning Function**
  A data-cloning function allows installers to copy configuration data from a master projector to slave projectors via LAN, expediting setup of multiple RZ120s.

- **Wide-Range Powered Lens Shift**
  Image alignment takes seconds via remote control using extra-wide powered lens shift, which offers up to +50 %, -16 % (V) and +30 %, -10 % (H) adjustment with a standard lens.

- **Unique Contrast Sync and Shutter Sync Function**
  Contrast Sync allows the projectors’ digitally modulated contrast function to be synchronized over the network for consistent picture quality across screens, while Shutter Sync incorporates a master/slave principle to synchronize shutter on/off timing between all networked projectors. It includes simultaneous fade-in and fade-out functions.
  
  Note: Use of RS-232C straight cable is necessary for all connections. Consult your sales representative for further information.

- **Shares Optional Lenses with Panasonic 1-Chip DLP™ Projectors**
  The RZ120 shares optional lenses with Panasonic’s 1-Chip DLP™ projector family.
  The wide range of lenses in the lineup contributes to installation flexibility in any space, reducing TCO. *1 Excluding ET-DLE050.

Simple convenience every day

- **Quick Start/Quick Off Mode**
  With Quick Start/Quick Off Mode, images appear as soon as the RZ120 is switched on, and the projector may be safely switched off any time. Start and finish presentations efficiently and smoothly.

- **Multi Monitoring & Control Software and Early Warning Software**
  Manage up to 2,048 devices via network with convenient system map visualization and auto-search of unregistered devices. The free software is available with Early Warning functions (automatic free 90-day trial available). These enable real-time monitoring, abnormality detection, and more.

  *2 Software functionality varies depending on the model.

A deeper feature set

- **Multi-Unit Brightness and Color Control**
- **Seamlessly blended screens with Multi-Screen Support System**
- **Backup Input Setting**
- **Free 360-degree installation**
- **Auto Screen Image Rotation**
- **Compatible with Art-Net DMX**
- **10,000:1 Dynamic Contrast**
- **Smart Projector Control**
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Optional accessories

- **Ultra-Short Throw Lens** (Fixed-Focus)
- **Fixed-Focus Lens**
- **Zoom Lens**

- **Ceiling Mount Bracket ET-PKD130H (6-axis), for high ceiling / ET-PKD120H (for high ceiling) / ET-PKD120S (for low ceiling)**
- **Projector Mount Bracket ET-PKD130B**
- **Geometry Manager Pro Software Upgrade Kit ET-SWA100 / ET-SWA150**
- **Early Warning Software ET-PMX100 Series**
- **DIGITAL LINK Switcher ET-YFB2000G**
- **Digital Interface Box ET-YFB1000G**

* All accessories except ET-SWA100 are equivalent of supplied lens.
* EU-only, EXCEPT ET-SWA100.
* When using ET-PKD130B, Projector Mount Bracket (sold separately). *13 Part numbers suffices may differ depending on the license type. Multi Monitoring & Control Software Ver. 2.0 or later is required. Please download from the following website: https://panasonic.net/cns/projector/download/application/.
Specifications

Model  | With supplied lens  | Without lens
--- | --- | ---
PT-RZ120 | PT-RZ120L

Projector type  | 1-Chip DLP® projector  | 1-Chip DLP® projector

DLP® chip  | Panel size: 17.0 mm (0.67 in) diagonal (16:10 aspect ratio)  | Panel size: 17.0 mm (0.67 in) diagonal (16:10 aspect ratio)

Display system  | DLP® chip x 1, DLP® projection system  | DLP® chip x 1, DLP® projection system

Number of pixels  | 2,304,000 (1920 x 1200) x 1  | 2,304,000 (1920 x 1200) x 1

Light source  | Laser Diode  | Laser Diode

Light output  | 12,000 lm* /12,600 lm (Center)*  | 12,000 lm* /12,600 lm (Center)*

Time until light output declines to 50%**  | 20,000 hours / NO/HAL/24,000 hours (ECO)  | 20,000 hours / NO/HAL/24,000 hours (ECO)

Resolution  | 1920 x 1200 pixels  | 1920 x 1200 pixels

Contrast***  | 10,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)  | 10,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)

Screen size (diagonal)  | 1.27-15.24 m (50-600 in), 1.27-5.08 m (40-200 in) with ET-DLE055; 2.54-8.89 m (100-350 in) with ET-DLE055, 16:10 aspect ratio  | 1.27-15.24 m (50-600 in), 1.27-5.08 m (40-200 in) with ET-DLE055; 2.54-8.89 m (100-350 in) with ET-DLE055, 16:10 aspect ratio

Center-to-corner uniformity*  | 96%  | 96%

Lens  | PT-RZ120L: Powered zoom (throw ratio: 1.7-2.4:1), powered focus F 1.7-1.9, f 25.6-35.7 mm  | PT-RZ120L: Powered zoom (throw ratio: 1.7-2.4:1), powered focus F 1.7-1.9, f 25.6-35.7 mm

Lens shift**  | Vertical (from center of screen): +50 %, –16 % (+43 %, –16 % with ET-DLE060) (Powered)  | Vertical (from center of screen): +50 %, –16 % (+43 %, –16 % with ET-DLE060) (Powered)

Horizontal (from center of screen): +30 %, –10 % (+19 %, –10 % with ET-DLE150/ET-DLE170, +22 % with ET-DLE035) (Powered)  | Horizontal (from center of screen): +30 %, –10 % (+19 %, –10 % with ET-DLE150/ET-DLE170, +22 % with ET-DLE035) (Powered)

Keystone correction range  | Vertical: ±40 ° (±16 ° with ET-DLE060, ±22 ° with ET-DLE085/ET-DLE105, ±25 ° with ET-DLE150/ET-DLE170, ±5 ° with ET-DLE035) (Powered)  | Vertical: ±40 ° (±16 ° with ET-DLE060, ±22 ° with ET-DLE085/ET-DLE105, ±25 ° with ET-DLE150/ET-DLE170, ±5 ° with ET-DLE035) (Powered)

Horizontal: ±40 °, ±20 ° (±8 ° with ET-DLE150/ET-DLE170, ±4 ° with ET-DLE035) (Powered)  | Horizontal: ±40 °, ±20 ° (±8 ° with ET-DLE150/ET-DLE170, ±4 ° with ET-DLE035) (Powered)

When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding total of 55 °.

Installation  | Horizontal/vertical, free 360-degree installation  | Horizontal/vertical, free 360-degree installation

Terminals  | RGB x 1 (BNC x 5): RGB/YP BPR/YC BCR  | RGB x 1 (BNC x 5): RGB/YP BPR/YC BCR

HDMI IN  | HDMI 19 pin x 1 (compatible with HDCP 2.2, Deep Color, 4K signal input)  | HDMI 19 pin x 1 (compatible with HDCP 2.2, Deep Color, 4K signal input)

DVI-D IN  | DVI-D 24-pin x 1 (DVI 1.0 compatible, compatible with HDCP, compatible with single link only)  | DVI-D 24-pin x 1 (DVI 1.0 compatible, compatible with HDCP, compatible with single link only)

RGB 1 IN  | RGB x 1 (BNC x 5): RGB/YP YPb/Pb YPr/Pr C  | RGB x 1 (BNC x 5): RGB/YP YPb/Pb YPr/Pr C

RGB 2 IN  | D-sub 15 pin (female) x 1: RGB/YP YPb/Pb YPr/Pr C  | D-sub 15 pin (female) x 1: RGB/YP YPb/Pb YPr/Pr C

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

SERIAL-MULTI-PROJECTOR SYNCH  | D-sub 9-pin (male) x 1 for link control  | D-sub 9-pin (male) x 1 for link control

REMOTE IN  | RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net)  | RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net)

REMOTE OUT  | D-sub 9-pin (female) x 1 for external control (Parallel)  | D-sub 9-pin (female) x 1 for external control (Parallel)

LAN  | D-sub 9-pin (male) x 1 for link control (for wired remote control)  | D-sub 9-pin (male) x 1 for link control (for wired remote control)

DIGITAL LINK/LAN  | RJ-45 x 1 for network and DIGITAL LINK connection (HDBaseT™ compliant), 10Base-TX (Compatible with PJLink™ [Class 2], Art-Net), HDCP 2.2, Deep Color, 4K signal input  | RJ-45 x 1 for network and DIGITAL LINK connection (HDBaseT™ compliant), 10Base-TX (Compatible with PJLink™ [Class 2], Art-Net), HDCP 2.2, Deep Color, 4K signal input

Power supply  | 100-240 VAC, 50/60 Hz  | 100-240 VAC, 50/60 Hz

Power consumption  | 1,100 W  | 1,100 W

Cabinet materials  | Moulded plastic  | Moulded plastic

Operation noise*  | 1,100 W  | 1,100 W

Dimensions (W x H x D)  | 44 dB (normal)/41 dB (Quiet)/33 dB (Quiet)  | 44 dB (normal)/41 dB (Quiet)/33 dB (Quiet)

Model PT-RZ120L: Approximately 43.6 kg (96.1 lbs) (with supplied lens)  | Model PT-RZ120L: Approximately 43.6 kg (96.1 lbs) (with supplied lens)

Model PT-RZ120: Approximately 41.8 kg (92.3 lbs) (with supplied lens)  | Model PT-RZ120: Approximately 41.8 kg (92.3 lbs) (with supplied lens)

Model PT-RZ120L: Approximately 23.6 kg (51.9 lbs) (without lens)  | Model PT-RZ120L: Approximately 23.6 kg (51.9 lbs) (without lens)

Model PT-RZ120: Approximately 22.8 kg (50.2 lbs) (without lens)  | Model PT-RZ120: Approximately 22.8 kg (50.2 lbs) (without lens)

Power cord, remote control and remote control batteries (AAA/R6P or AA/R6P battery)  | Power cord, remote control and remote control batteries (AAA/R6P or AA/R6P battery)  | Power cord, remote control and remote control batteries (AAA/R6P or AA/R6P battery)

Lens Mount Cover, Lens Cover (models with lens only)  | Lens Mount Cover, Lens Cover (models with lens only)  | Lens Mount Cover, Lens Cover (models with lens only)

Note: PT-RZ120L offers the same performance as PT-RZ120L, but comes without a lens.

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Weight 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 terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries. Trademark PJLink™ is a trademark applied for trademark rights in Japan, the United States of America and other countries and areas. SOLID SHINE is a trademark of Panasonic Holdings Corporation. All other trademarks are the property of their respective trademark owners. © Panasonic Connect Co., Ltd. 2022. All rights reserved.

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

YouTube: https://www.youtube.com/user/PanasonicProjector

Note: Following the acquisition of the Eades Group to become the Connected Solutions Company of the Panasonic Corporation has changed to Panasonic Connect Co., Ltd. as of April 1, 2022.

All information included here is valid as of April 2022.

RZ120_G2 Printed in Japan.