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Preliminary Product Information

Panasonic Live@ISE 2016

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PT-RZ970 Series

Preliminary
As of February 2016

10,000-lumen-class Goes Ultra-Compact with New 1-Chip DLP™ Laser Phosphor Projectors



| | PT-RZ970 | PT-RW930 | PT-RX110 |
|----------------------------|--------------------------------|-----------------------|---------------------------------|
| Brightness | 10,000 lm (Center) 9,400 lm | | 10,400 lm (Center) 10,000 lm |
| Resolution | WUXGA (1,920 x 1,200) | WXGA (1,280 x 800) | XGA (1,024 x 768) |
| Contrast ratio | 10,000:1 | | |
| Available from Summer 2016 | | | |

* Geometry Manager Pro is available only with PT-RZ970.

▼ Main Features

▼ Specifications (Tentative)

Main Features

Benefits of the PT-RZ970 Series

1 High Picture Quality and Long-lasting Reliability

- Combines 1-Chip DLP™ imaging with proprietary SOLID SHINE laser technology for immersive picture quality at 10,000 lm of brightness*¹.
- Dynamic Light Control for 10,000:1 contrast*².
- Accurate white balance and color reproduction in any projection mode.
- Long-lasting picture quality.
- Detail Clarity Processor 3 clarifies the finest details.

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- System Daylight View 2 ensures sharp and vivid images in bright environments.

2 Consistently Stable and Reliable Performance

- Dust-resistant structure with airtight optical block.
- Dual-drive laser optical engine ensures reliable 24//7 operation with light source failover protection.
- Up to 20,000 hours of continuous maintenance-free operation*3.
- Selectable operational modes extend service life to up to 10 years*4.
- Efficient cooling system for stable operation in ambient temperatures of up to 45 °C (113 °F)*5.
- High-speed backup input switching.

3 Versatile System and Installation Flexibility

- Shares optional lenses with Panasonic 1-Chip DLP™ projector family.
- Compact body and free 360-degree installation (vertical and horizontal).
- DIGITAL LINK supports transmission of uncompressed full HD video and control commands through a single CAT 5e or higher STP cable for distance up to 150 m (492 ft)*6.
- Geometric Adjustment for specially shaped screens.
- Geometry Manager Pro*7 and optional upgrade kit (ET-UK20)*7.
- Auto Screen Adjustment Upgrade Kit (ET-CUK10)*8.

*1 PT-RZ970/RW930 features brightness of 10,000 lm (Center), and PT-RX110 features 10,400 lm (Center).

*2 With Dynamic Contrast Mode set to 3.

*3 At 20,000 hours, projector brightness will have decreased to approximately half of its original level (Dynamic Contrast Mode: 3, Image mode: Dynamic). Panasonic recommends cleaning or checkup at point of purchase after every 20,000-hour period (approximately). 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.

*4 With operating Mode set to Long Life 3, in which mode brightness is lowered to 1,900 lm, 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.

*5 Light output may be reduced to protect the projector depending on environmental conditions.

*6 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080/60p (dot-clock frequency 148.5 MHz). Transmission distance is up to 100 m (328 ft) in other cases.

*7 Geometry Manager Pro and optional upgrade kit are available only with PT-RZ970.

*8 For only PT-RZ970. Available worldwide except the United States.

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Specifications (Tentative)

| Model | | PT-RZ970 | PT-RW930 | PT-RX110 |
|-------------------------------|----------------|--|--|--|
| Power supply | | 100-240 V AC, 50/60 Hz | | |
| Power consumption | | TBD | | |
| DLP™ chip | Panel size | 17.0 mm (0.67 in) diagonal (16:10 aspect ratio) | 16.5 mm (0.65 in) diagonal (16:10 aspect ratio) | 17.8 mm (0.7 in) diagonal (4:3 aspect ratio) |
| | Display method | DLP™ chip x 1, DLP™ projection system | | |
| | Pixels | 2,304,000 (1,920 x 1,200) pixels | 1,024,000 (1,280 x 800) pixels | 786,432 (1,024 x 768) pixels |
| Lens | | Powered zoom (throw ratio 1.7-2.4:1), powered focus F 1.7-1.9, f 25.6-35.7 mm | Powered zoom (throw ratio 1.8-2.5:1), powered focus F 1.7-1.9, f 25.6-35.7 mm | |
| Light source | | Laser diode (laser class: Class 1 (Class 3R for US models)), light source life*1: 20,000 hours (Normal Mode) / 24,000 hours (Eco Mode) | | |
| Screen size (diagonal) | | 1.27-15.24 m (50-600 in), 1.27-5.08 m (50-200 in) with the ET-DLE055, 2.54-8.89 m (100-350 in) with the ET-DLE030, 16:10 aspect ratio | | 1.27-15.24 m (50-600 in), 1.27-5.08 m (50-200 in) with the ET-DLE055, 2.54-8.89 m (100-350 in) with the ET-DLE030, 4:3 aspect ratio |
| Brightness*2 | | 10,000 lm (Center) / 9,400 lm | | 10,400 lm (Center) / 10,000 lm |
| Center-to-corner uniformity*2 | | 90 % | | |
| | | | | |

| | | | | | |
|---|---------------------------|--|--|------------------------|------------------------|
| Contrast*2 | | | 10,000:1 (Full on/off, with Dynamic Contrast Mode set to "3") | | |
| Resolution | | | 1,920 x 1,200 pixels*3 | 1,200 x 800 pixels*3 | 1,024 x 768 pixels*3 |
| Scanning frequency | SDI | SD-SDI | SMPTE ST 259 compliant, [YCbCr 4:2:2 10-bit] 480i, 576i | | |
| | | HD-SDI | SMPTE ST 292 compliant, [YPbPr 4:2:2 10-bit] 720/50p, 720/60p, 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p | | |
| | | 3G-SDI | SMPTE ST 424 compliant, [YPbPr 4:2:2 10-bit] 1080/50p, 1080/60p, [RGB 4:4:4 12-bit/10-bit] 1080/50i, 1080/60i, 1080/25p, 1080/24p, 1080/24sF, 1080/30p | | |
| | HDMI/ DVI-D/ DIGITAL LINK | | 525i (480i)*4, 625i (576i)*4, 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/24p, 1125 (1080)/24sF, 1125 (1080)/25p, 1125 (1080)/30p, 1125 (1080)/60p, 1125 (1080)/50p, 1125 (1080)/60i, 1125 (1080)/50i, VGA (640 x 480)-WUXGA*5 (1,920 x 1,200), compatible with non-interlaced signals only, dot clock: 25-162 MHz | | |
| | RGB | | fh: 15-100 kHz, fv: 24-120 Hz, dot clock: 20-162 MHz | | |
| | YPbPr (YCbCr) | | fh: 15.75 kHz, fv: 60 Hz [480i (525i)] fh: 31.50 kHz, fv: 60 Hz [480p (525p)] fh: 15.63 kHz, fv: 50 Hz [576i (625i)] fh: 31.25 kHz, fv: 50 Hz [576p (625p)] fh: 45.00 kHz, fv: 60 Hz [720 (750)/60p] fh: 37.50 kHz, fv: 50 Hz [720 (750)/50p] fh: 33.75 kHz, fv: 60 Hz [1035 (1125)/60i] fh: 33.75 kHz, fv: 60 Hz [1080 (1125)/60i] fh: 28.13 kHz, fv: 50 Hz [1080 (1125)/50i] fh: 28.13 kHz, fv: 25 Hz [1080 (1125)/25p] fh: 27.00 kHz, fv: 24 Hz [1080 (1125)/24p] fh: 27.00 kHz, fv: 48 Hz [1080 (1125)/24sF] fh: 33.75 kHz, fv: 30 Hz [1080 (1125)/30p] fh: 67.50 kHz, fv: 60 Hz [1080 (1125)/60p] fh: 56.25 kHz, fv: 50 Hz [1080 (1125)/50p] | | |
| | Video/YC | | fh: 15.73 kHz, fv: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60], fh: 15.63 kHz, fv: 50 Hz [PAL/PAL-N/SECAM] | | |
| Optical axis shift*6 (from center of screen) | Vertical | +50 %, -16 % (powered) | | +60 %, -16 % (powered) | +50 %, -16 % (powered) |
| | Horizontal | +30 %, -10 % (+28 %, -10 % with ET-DLE085) (powered) | | | |
| Keystone correction range | | | Vertical : ±40° (±22° with the ET-DLE085/ET-DLE055, +5° with the ET-DLE030), horizontal: ±15° (cannot be operated with the ET-DLE030) | | |
| Keystone correction range with optional upgrade kit (ET-UK20)*7 | | | Vertical: ±45° (±40° with the ET-DLE150/ET-DLE250/ supplied lens, ±22° with the ET-DLE085/ET-DLE055), horizontal: ±40° (±15° with ET-DLE085/ET-DLE055) - | | |
| Installation | | | Ceiling/floor, front /rear, free 360-degree installation | | |
| Terminals | SDI IN | BNC x 1 (3G/HD/SD-SDI) (PT-RZ970 only) | | - | |
| | HDMI IN | HDMI 19-pin x 1 (Deep Color, compatible with HDCP) | | | |
| | DVI-D IN | DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only) | | | |
| | RGB 1 IN | BNC x 5 (RGB/YPbPr/YCbCr/VIDEO/YC x 1) | | | |
| | RGB 2 IN | D-Sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr x 1) | | | |
| | SERIAL IN | D-sub 9-pin (female) x 1 for external control (RS-232C compliant) | | | |
| | SERIAL OUT | D-sub 9-pin (male) x 1 for link control | | | |
| | REMOTE 1 IN | M3 x 1 for wired remote control | | | |
| | REMOTE 1 OUT | M3 x 1 for link control (for wired remote control) | | | |
| | REMOTE 2 IN | D-sub 9-pin (female) x 1 for external control (parallel) | | | |
| | LAN/DIGITAL LINK | RJ-45 x 1 (for network, DIGITAL LINK connection, 100Base-TX, compatible with Art-Net, PJLink™ (class 1), Deep Color, HDCP) | | | |
| Cabinet materials | | | Molded plastic | | |
| Dimensions (W x H x D) | | | 498 x 200*8 x 581 mm (19-19/32 x 7-7/8*8 x 22-7/8 in) (with supplied lens) 498 x 200*8 x 538 mm (19-19/32 x 7-7/8*8 x 21-3/16 in) (without lens) | | |
| | | | | | |

| | |
|-------------------------------|--|
| Weight* ⁹ | TBD |
| Operation noise* ² | 41 dB |
| Operating environment | Operating temperature: 0-45°C (32-113°F)* ¹⁰ , operating humidity: 10- 80 % (no condensation) |
| Applicable software | Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro* ¹¹ (ET-UK20* ¹¹ Upgrade Kit and ET-CUK10* ¹² Auto Screen Adjustment Kit) |
| Supplied accessories | Power cord with secure lock, wireless/wired remote control unit, batteries for remote control (R03/AAA type × 2), software CD-ROM (Logo Transfer Software, Multi Monitoring & Control Software) |

*¹ At 20,000 hours, projector brightness will have decreased to approximately half of its original level (Dynamic Contrast Mode: 3, Image mode: Dynamic). Panasonic recommends cleaning or checkup at point of purchase after every 20,000-hour period (approximately). 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.

*² Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

*³ Input signals that exceed the native resolution will be converted to the native resolution.

*⁴ Only compatible with dot clock frequency of 27 MHz (pixel repetition signal).

*⁵ WUXGA resolution is supported only when the signals are compliant with VESA CVT-RB (Coordinated Video Timing-Reduced Blanking).

*⁶ Optical axis shift is not supported on the ET-DLE055, and the optical axis is fixed with the ET-DLE030.

*⁷ Up to a total of ±55° during simultaneous horizontal and vertical correction.

*⁸ With legs at shortest position.

*⁹ Average value. May differ depending on the actual unit.

*¹⁰ When used in locations from 0 m to 4,200 m (0 ft to 13,780 ft) above sea level in NORMAL mode, and from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level in other modes. If the ambient temperature exceeds 35°C (95°F) when used in locations from 0 m to 2,700 m (0 ft to 8,858 ft) above sea level, or if it exceeds 25°C (77°F) when used in locations from 0 m to 4,200 m (0 ft to 13,780 ft) above sea level, the light output may be reduced to protect the projector.

*¹¹ Geometry Manager Pro and optional upgrade kit are available only with PT-RZ970.

*¹² For only PT-RZ970. Available worldwide except the United States.

Optional accessories

Fixed-focus lens

ET-DLE030

Zoom lens

ET-DLE085
ET-DLE150
ET-DLE250
ET-DLE350
ET-DLE450
ET-DLE055

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

* The ET-PKD130H/PKD120H/PKD120S are used in combination with the ET-PKD130B (sold separately).
The ET-PKD130H is recommended when used with the ET-DLE030.

Geometry Manager Pro

Software Upgrade Kit (PT-RZ970)

ET-UK20 [Product Information](#)

Auto Screen Adjustment

Upgrade Kit (PT-RZ970)

ET-CUK10 [Product Information](#)
(except in the United States.)

DIGITAL LINK Switcher

ET-YFB200G [Product Information](#)

Digital Interface Box

ET-YFB100G [Product Information](#)

Early Warning Software

ET-SWA100 [Product Information](#)

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