# Panasonic
## BUSINESS

## Create Immersive Environments with Color-Rich Images from Our Most Adaptable 1-Chip DLP™ Laser Projector Yet

### ■ Main Features

SOLID SHINE LASER | PICTURE BY DLP | SMOOTH PIXEL DRIVE | DIGITAL LINK SINGLE CABLE SOLUTION | ACCEPTS 4K SIGNAL
SLOT NX | 360° | 24/7 Operation

#### 01 | Detailed Images Rich in Natural Color

Rich Color Harmonizer achieves vibrant color reproduction while Smooth Pixel Drive 1-axis pixel-wobbling expresses fine detail beyond the panel resolution.

#### 02 | Seamless Integration

Supports 4K playback*1, optional SLOT NX interface boards, and remote app with NFC function*2 for settings access on standby and auto-focus via smartphone camera.

#### 03 | Excellent 24/7 Reliability

Dual-drive SOLID SHINE Laser has a refined cooling system that contributes to 20,000 hours*3 of maintenance-free operation.


Black Models


White Models

### PT-RCQ10 Series

| | PT-RCQ10 | PT-RCQ10L | PT-RCQ80 | PT-RCQ80L |
|---|---|---|---|---|
| **Light Output** | 10,000 lm*4 / 10,500 lm (Center)*5 | | 8,000 lm*4 / 8,400 lm (Center)*5 | |
| **Resolution** | 4,608,000 pixels / 2715 x 1697 dots (With Smooth Pixel Drive: ON) | | | |
| **Lens** | With supplied lens | Without lens | With supplied lens | Without lens |

*Smooth Pixel Drive is a technology that shifts the pixel diagonally by 0.5 pixels to create a 2715 x 1697 high-resolution image.

*1 4K input signals are resized to 2715 x 1697 pixels upon projection (With Smooth Pixel Drive: ON). *2 Availability may vary by country or region. *3 At this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, [Dynamic Contrast] set to [3], temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of particulate matter. Value will vary depending on environment and usage conditions. Parts other than the light source may require replacement in a shorter period. Panasonic recommends checkup at point of purchase after about 20,000 hours. *4 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. *5 Average light-output value of all shipped products measured at center of screen in NORMAL Mode.

## Rich Color Harmonizer

Rich Color Harmonizer features a new color-filter design and original image processing technology to achieve deeper, brighter reds. Accurate white-balance contributes to vibrant colors and natural skin-tone reproduction.

## Smart Projector Control App

Refreshed for Android™ and iOS and now with NFC*[1] for instant pairing, you can make adjustments via a readable/writable*[2] settings menu and use your smartphone camera to focus the projection.

*1 Availability may vary by country or region. *2 Data-writing not available on iOS devices.

## Smooth Pixel Drive

One-axis wobbling creates crisp yet smooth images beyond the panel resolution. It's enhanced by an original image processing engine that smooths jaggies, sharpens text, and clarifies details for immersive viewing.

## Optional Lens Family

Eleven interchangeable lenses include a new stackable zero-offset ET-DLE020 Ultra-Short-Throw Zoom Lens featuring wide-range image adjustment ideal for front- or rear-projection in the tightest spaces.

### ■ Other Features

- System Daylight View 3
- Separate LAN/DIGITAL LINK Terminals
- Data Cloning Function
- Unique Contrast Sync and Shutter Sync Function
- Quick Start/Quick Off Mode
- Multi Monitoring & Control Software and Early Warning Software
- Multi-Unit Brightness and Color Control
- Seamlessly Blended Screens with Multi-Screen Support System

## Specifications

| Model | With supplied lens | PT-RCQ10 | PT-RCQ80 |
|---|---|---|---|
| | Without lens | PT-RCQ10L | PT-RCQ80L |
| Projector type | | 1-Chip DLP™ projector | |
| DLP™ chip | Panel size | 17.0 mm (0.67 in) diagonal, 16:10 aspect ratio | |
| | Number of pixels | 2,304,000 (1920 × 1200) pixels | |
| Light source | | Laser diodes | |
| Light output | | 10,000 lm*[1] / 10,500 lm (Center)*[2] | 8,000 lm*[1] / 8,400 lm (Center)*[2] |
| Time until light output declines to 50 %*[3] | | 20,000 hours (NORMAL) / 24,000 hours (ECO) | |
| Resolution | | 4,608,000 pixels / 2715 x 1697 dots  * With Smooth Pixel Drive: ON. | |
| Contrast ratio*[1] | | 10,000:1 (Full On/Full Off)  * With [Dynamic Contrast] set to [3] | |
| Screen size [diagonal] | | 1.27–15.24 m (50–600 in), 1.27–5.08 m (50–200 in) with ET-DLE055, 2.54–8.89 m (100–350 in) with ET-DLE035, 2.54–10.16 m (100–400 in) with ET-DLE020, 16:10 aspect ratio | |
| Center-to-corner zone ratio*[1] | | 90 % | |
| Lens | | PT-RCQ10: Powered zoom (throw ratio 1.71–2.41:1), powered focus F 1.7–1.9, f 25.6–35.7 mm<br>PT-RCQ10L: Optional powered zoom/focus lenses | PT-RCQ80: Powered zoom (throw ratio 1.71–2.41:1), powered focus F 1.7–1.9, f 25.6–35.7 mm<br>PT-RCQ80L: Optional powered zoom/focus lenses |
| Lens shift*[4] | Vertical (from center of screen) | +50 %, -16 % (+40 %, -16 % with ET-DLE060) (powered) | |
| | Horizontal (from center of screen) | +30 %, -10 % (+10 %, -20 % with ET-DLE020, +19 %, -10 % with ET-DLE060, +28 %, -10 % with ET-DLE105/ET-DLE085) (powered) | |
| Keystone correction range | | Vertical: ±40° (±5° with ET-DLE020, ±16° with ET-DLE060, ±22° with ET-DLE105/ET-DLE085/ET-DLE055, +5° with ET-DLE035), Horizontal: ±15° (±10° with ET-DLE060) (cannot be operated with ET-DLE035/ET-DLE020) | |
| Keystone correction range with optional ET-UK20 Upgrade Kit | | Vertical: ±45° (±16° with ET-DLE060, ±40° with ET-DLE150/ET-DLE250/ET-DLE170, ±22° with ET-DLE105/ET-DLE085/ET-DLE055), Horizontal: ±40° (±10° with ET-DLE060, ±15° with ET-DLE055), When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of 55°. | |
| Terminals | SDI IN | BNC x 1: 3G/HD-SDI input | |
| | HDMI IN | HDMI 19-pin x 1 (Deep Color, compatible with HDCP 2.2, 4K/60p signal input*[5]) | |
| | DVI-D IN | DVI-D 24-pin x 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only) | |
| | MULTI PROJECTOR SYNC IN | BNC x 1 | |
| | MULTI PROJECTOR SYNC OUT | BNC 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 | RJ-45 x 1 for network connection, 10Base-T/100Base-TX, compliant with PJLink™ (Class 2), Art-Net | |
| | DIGITAL LINK | RJ-45 x 1 for network, DIGITAL LINK connection (HDBaseT™ compliant), 100Base-TX, compatible with Art-Net, PJLink™ (Class 2), Deep Color, HDCP 2.2, 4K/60p signal input*[5] | |
| | USB | USB Connector (Type A) x 1 for Cloning/Wireless Module (output 5 V/500 mA) | |
| | Expansion Slot | Open slot for SLOT NX compatible interface board | |
| Power supply | | AC 100–240 V, 50/60 Hz | |
| Power consumption | | 1,100 W | 880 W |
| Operation noise*[1] | | 43 dB (Normal)/40 dB (Quiet 1)/38 dB (Quiet 2) | 40 dB (Normal)/38 dB (Quiet) |
| Dimensions (W x H x D) | | PT-RCQ10: 498 x 200*[6] x 581 mm (19 19/32″ x 7 7/8″ *[6] x 22 7/8″) (with supplied lens)<br>PT-RCQ10L: 498 x 200*[6] x 538 mm (19 19/32″ x 7 7/8″ *[6] x 21 3/16″) (without lens) | PT-RCQ80: 498 x 200*[6] x 581 mm (19 19/32 x 7 7/8″ *[6] x 22 7/8″) (with supplied lens)<br>PT-RCQ80L: 498 x 200*[6] x 538 mm (19 19/32″ x 7 7/8″ *[6] x 21 3/16″) (without lens) |
| Weight*[7] | | PT-RCQ10: Approx. 24.2 kg (53.4 lbs) (with supplied lens)<br>PT-RCQ10L: Approx. 23.4 kg (51.6 lbs) (without lens) | PT-RCQ80: Approx. 24.2 kg (53.4 lbs) (with supplied lens)<br>PT-RCQ80L: Approx. 23.4 kg (51.6 lbs) (without lens) |
| Operating environment | | Operating temperature: 0–45 °C (32–113 °F)*[8]*[9], operating humidity: 10–80 % (no condensation) | |
| Applicable software | | Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro (ET-UK20 Upgrade Kit, ET-CUK10 Auto Screen Adjustment Kit), Smart Projector Control for iOS/Android™ | |

*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 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, NORMAL Mode, [Dynamic Contrast] set to [3], under conditions with 30 °C (86 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m³ of particulate matter. Estimated time until light output declines to 50 % varies depending on environment. *4 Lens shift is not supported on the ET-DLE055, and the optical axis is fixed with the ET-DLE035. *5 4K input signals are resized to 2715 x 1697 pixels upon projection. (With Smooth Pixel Drive: ON) *6 With legs at shortest position. *7 Average value. May differ depending on the actual unit. *8 When using the projector at an altitude lower than 2,700 m (8,858 ft) above sea level, and the operating environment temperature becomes 30 °C (86 °F) or higher, the light output may be reduced to protect the projector. When using the projector at an altitude between 2,700 m (8,858 ft) and 4,200 m (13,780 ft), and the operating environment temperature becomes 25 °C (77 °F) or higher, the light output may be reduced to protect the projector. *9 When optional AJ-WM50 wireless module is attached, operating temperature range becomes 0–40 °C (32–104 °F).

## Optional Accessories

- **Fixed-Focus Lens**
  ET-DLE035 (0.380:1) / ET-DLE055 (0.785:1)
- **Zoom Lens**
  ET-DLE020 (0.280-0.299:1) / ET-DLE060 (0.600-0.801:1) / ET-DLE085 (0.782-0.977:1) / ET-DLE105 (0.978-1.32:1) / ET-DLE150 (1.30-1.89:1) / ET-DLE170* (1.71-2.41:1) / ET-DLE250 (2.27-3.62:1) / ET-DLE350 (3.58-5.45:1) / ET-DLE450 (5.36-8.58:1)
  *US/Europe only. ET-DLE170 is equivalent of supplied lens. Note: With WUXGA resolution. Value depends on resolution.

- **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
- **Interface Board for 12G-SDI Input**
  ET-MDN12G10

- **Interface Board for HDMI® (HDCP 2.2) Input**
  ET-MDNHM10
- **Interface Board for DVI Input**
  ET-MDNDV10
- **Interface Board for DisplayPort™**
  ET-MDNDP10

- **Wireless Module**
  AJ-WM50
  Note: Product availability may vary by country or region. The suffix at the end of the model number is omitted.
- **DIGITAL LINK Switcher**
  ET-YFB200G
  Note: ET-YFB200G is not compatible with 4K signals.

- **Digital Interface Box**
  ET-YFB100G
  Note: ET-YFB100G is not compatible with 4K signals.
- **Geometry Manager Pro Software Upgrade Kit**
  ET-UK20
- **Auto Screen Adjustment Upgrade Kit**
  ET-CUK10/ET-CUK10P

- **Early Warning Software**
  ET-SWA100 Series
  Note: Part number suffix 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/
- **NFC Upgrade Kit**
  ET-NUK10
  Note: Product availability may vary by country or region.

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**All information included here is valid as of October 2019.**

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