Panasonic
BUSINESS

PT-**RCQ10** Series
1-Chip DLP™ Projectors

PT-**RCQ10** / PT-**RCQ10L**
PT-**RCQ80** / PT-**RCQ80L**

OCTOBER / 2019

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 A TEXAS INSTRUMENTS TECHNOLOGY — 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.

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 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 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-DLE105/ET-DLE085/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) 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) 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) PT-RCQ10L: Approx. 23.4 kg (51.6 lbs) (without lens)		PT-RCQ80: Approx. 24.2 kg (53.4 lbs) (with supplied lens) 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/ldownload/application/
- **NFC Upgrade Kit**
  ET-NUK10
  Note: Product availability may vary by country or region.

Panasonic®