Panasonic CONNECT

PRELIMINARY AS OF JUNE 2024

PT-RQ7 Series

1-Chip DLP™ Projectors

PT-RQ7L/RQ6L: AVAILABLE FROM CY2024 Q3
PT-RZ7L/RZ6L: AVAILABLE FROM CY2024 Q4

Note: Release date may vary by country or region.

Immersive for All: Light & Compact 1-Chip DLP™ 4K[1] Projectors

Note: Lens not included.

Black Models

White Models (PT-RZ7L/RZ6L Only)

• *Making Immersive 4K Visuals Accessible*

Positioned between the FRQ60 Series and the REQ15 Series, the RQ7 Series expands our 4K projector offerings to give integrators more choice. Experience smooth 4K[1] visuals courtesy of Quad Pixel Drive[2] with rich color and minimal blur. Project 240 Hz/1080p content[3] and fuse digital and analog elements seamlessly with our Real-Time Tracking Projection-Mapping System[4]. Improved Dynamic Contrast boosts visual impact, while a new Digital Art Mode further optimizes image quality.

• *Compact Design for an Effortless Workflow*

Weighing about 17 kg (37.5 lbs) and around 29 % smaller than the existing RZ790/RZ690 models, the RQ7 Series reduces the logistical burden and your carbon footprint. Optional function boards[5] compatible with the Intel® SDM standard-compatible SLOT, including Panasonic's new ET-SBFMP10 media processor[6], adapt, scale, and expand projector connectivity. Save time with preactivated Geo Pro[7] upgrade kits and use your existing Panasonic DLE Series lenses.

• *Stable, Reliable, and Efficient Projection*

Project sustainably with lasting picture quality. The energy-efficient optical engine and laser light source module conform to the IP5X Dust Protected (IEC 60529) standard[8], while a filterless design reduces waste and enables maintenance-free operation for 20,000 hours[9]. Multi-Laser Drive Engine and Backup Input[10] maintain image display in the event of trouble, securing a repeatable guest experience.

PT-RQ7 Series				
	PT-RQ7L	PT-RQ6L	PT-RZ7L	PT-RZ6L
Light Output	7,500 lm[11]	6,500 lm[11]	7,500 lm[11]	6,500 lm[11]
Resolution	4K (3840 x 2160 pixels)[1]		WUXGA (1920 x 1200 pixels)	

1 PT-RQ7L/RQ6L only. Maximum physical resolution of 4K (3840 x 2160) with Quad Pixel Drive [ON]. 2 PT-RQ7L/RQ6L only. 3 PT-RQ7L/RQ6L only. Supports input signals up to 1080p. The display frame rate corresponds to the input signal frame rate. When edge blending or geometric adjustment is enabled, 100 Hz, 120 Hz, and 240 Hz/1080p video projection is not supported. 4 PT-RQ7L/RQ6L only. Optional ET-SWR10 is used in conjunction with third-party devices (sold separately). Compatibility with third-party devices cannot be guaranteed. Other conditions apply. 5 Optional proprietary and third-party function boards compatible with the Intel® SDM standard-compatible SLOT are sold separately. Panasonic cannot guarantee the operation of third-party devices. 6 Scheduled for release CY2024 Q4. 7 Visit PASS to register your projector and download free Geometry Manager Pro software for Windows® (upgrade kits included). 8 The Dust Protected performance of this unit is not guaranteed to be free from damage or failure under all conditions (environment with conductive dust, etc.). Please use an enclosure in environments with smoke containing oil, salt, and moisture. 9 Around this time, the light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, [NORMAL] Mode, [PICTURE MODE] set to [DYNAMIC], Dynamic Contrast [3], temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Panasonic recommends a checkup at the point of purchase after about 20,000 hours. 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. Estimated maintenance time varies depending on the environment. 10 Terminal assignment is fixed. Signals to primary and backup must be identical. 11 When ET-DLE170 is attached. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is the average of all products when shipped. 12 Input signals to the PT-RZ7L/RZ6L are converted to the projector's display resolution upon playback. YPBPR 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK.

Specifications (Tentative)

Model		PT-RQ7L	PT-RQ6L	PT-RZ7L	PT-RZ6L
Projector type		1-Chip DLP™ projector			
DLP™ chip	Panel size	16.5 mm (0.65 in) diagonal (16:9 aspect ratio)		17.0 mm (0.67 in) diagonal (16:10 aspect ratio)	
	Display method	DLP™ chip x 1, DLP™ projection system			
	Number of pixels	2,073,600 (1920 x 1080 pixels)		2,304,000 (1920 x 1200 pixels)	
Light source		Laser diodes			
Light output[1, 2]		7,500 lm	6,500 lm	7,500 lm	6,500 lm
Time until light output declines to 50 %[3]		20,000 hours (NORMAL/QUIET), 24,000 hours (ECO)			
Resolution		4K (3840 x 2160 pixels) (Quad Pixel Drive: ON)		WUXGA (1920 x 1200 pixels)	
Contrast ratio[1]		15,000:1 (Full On/Full Off, Dynamic Contrast [3])			
Screen size (diagonal)		1.27–5.08 m (50–200 in) with ET-DLE055, 1.27–15.24 m (50–600 in) with ET-DLE060/ET-DLE085/ET-DLE105/ET-DLE150/ET-DLE170/ET-DLE250/ET-DLE350, 2.54–8.89 m (100–350 in) with ET-DLE035, 2.54–10.16 m (100–400 in) with ET-DLE020			
Center-to-corner zone ratio[1]		90 %			
Lens		Optional (no lens included with this model)			
Lens shift (From the origin point of the lens mounter)	Vertical	+66 %, -18 % (with ET-DLE150/ET-DLE170/ET-DLE250/ET-DLE350/ET-DLE450); +60 %, -18 % (with ET-DLE085/ET-DLE105); +50 %, -18 % (with ET-DLE060); +55 %, -22 % (with ET-DLE020); +97 % (with ET-DLE035); (powered)		+60 %, -16 % (with ET-DLE150/ET-DLE170/ET-DLE250/ET-DLE350/ET-DLE450); +55 %, -16 % (with ET-DLE085/ET-DLE105); +40 %, -16 % (with ET-DLE060); +50 %, -20 % (with ET-DLE020); +88 % (with ET-DLE035); (powered)	
	Horizontal[4]	+30 %, -10 % (with ET-DLE150/ET-DLE170/ET-DLE250/ET-DLE350/ET-DLE450); +28 %, -10 % (with ET-DLE085/ET-DLE105); +19 %, -10 % (with ET-DLE060); +10 %, -20 % (with ET-DLE020); (powered)			
Keystone correction range		Vertical: ±45 ° (±5 ° with ET-DLE020, +5 ° with ET-DLE035, ±16 ° with ET-DLE060, ±22 ° with ET-DLE55/ET-DLE085/ET-DLE105, ±40 ° with ET-DLE150/ET-DLE170/ET-DLE250) Horizontal: ±40 ° (±10 ° with ET-DLE060, ±15 ° with ET-DLE55/ET-DLE085/ET-DLE105, cannot be used with ET-DLE020/ET-DLE035)			
Installation		Ceiling/floor, front/rear, free 360-degree installation			
Terminals	HDMI™ IN	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input[5])			
	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 (RS-232C compliant)			
	REMOTE IN	M3 stereo mini-jack x 1 for wired remote control			
	REMOTE OUT	M3 stereo mini-jack x 1 for link control (for wired remote control)			
	DIGITAL LINK/LAN	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBaseT™ compliant), 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p[5, 6] signal input)			
	LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible			
	USB (DC OUT)	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module/USB memory, (for power supply, DC 5 V, 2 A)			
	Expansion slot	Open slot for function boards, Intel® SDM standard-compatible			
Protocol versions		IPv4, IPv6[7]			
Power supply		AC 100–240 V, 50/60 Hz			
Maximum power consumption[8]		670 W (6.8–2.8 A) (680 VA) (Power consumption is 650 W at AC 200–240 V)	600 W (6.1–2.5 A) (610 VA) (Power consumption is 580 W at AC 200–240 V)	660 W (6.8–2.8 A) (680 VA) (Power consumption is 640 W at AC 200–240 V)	590 W (6.1–2.5 A) (610 VA) (Power consumption is 570 W at AC 200–240 V)
On-mode power consumption (Operating mode)[8]	NORMAL	540 W (AC 100–120 V) 520 W (AC 200–240 V)	470 W (AC 100–120 V) 450 W (AC 200–240 V)	530 W (AC 100–120 V) 510 W (AC 200–240 V)	460 W (AC 100–120 V) 440 W (AC 200–240 V)
	ECO	410 W (AC 100–120 V) 400 W (AC 200–240 V)	360 W (AC 100–120 V) 350 W (AC 200–240 V)	400 W (AC 100–120 V) 390 W (AC 200–240 V)	350 W (AC 100–120 V) 340 W (AC 200–240 V)
	QUIET	410 W (AC 100–120 V) 400 W (AC 200–240 V)	360 W (AC 100–120 V) 350 W (AC 200–240 V)	400 W (AC 100–120 V) 390 W (AC 200–240 V)	350 W (AC 100–120 V) 340 W (AC 200–240 V)
Cabinet materials		Molded plastic			
Operation noise[1]		35 dB (NORMAL/ECO), 32 dB (QUIET)	34 dB (NORMAL/ECO), 31 dB (QUIET)	35 dB (NORMAL/ECO), 32 dB (QUIET)	34 dB (NORMAL/ECO), 31 dB (QUIET)
Dimensions (W x H x D)		Approx. 498 x 170 x 440 mm (19 $^{19}/_{32}$″ x 6 $^{11}/_{16}$″ x 17 $^{5}/_{16}$″) (With legs at shortest position, excluding protruding parts)			
Weight[9]		Approx. 17 kg (37.5 lbs) (TBD)			
Operating environment		Operating temperature: 0–45 °C (32–113 °F)[10], operating humidity: 10–80 % (no condensation)			
Applicable software		Multi Monitoring & Control Software, Projector Network Setup Software, Real-Time Tracking Projection-Mapping System[11], Geometry Manager Pro, Smart Projector Control for iOS/Android™			
Control function via LAN		Crestron Connected™ V2, Crestron XiO Cloud™, Art-Net DMX, AMX® DD, and PJLink™ (Class 2)			

1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 2 When ET-DLE170 is attached. When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. 3 Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [3]). Estimated time until light output declines to 50 % varies depending on environment. 4 Cannot be used when ET-DLE035 is installed. 5 4K signals are converted to WUXGA (1920 x 1200 pixels) only for the PT-RZ7L/RZ6L. 6 Supports YPBPR 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK. 7 Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 8 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. On-mode power consumption measured at 25 °C (77 °F) operating temperature at an altitude of 700 m (2,297 ft). 9 Average value. May differ depending on the actual unit. 10 When the optional AJ-WM50 Series wireless module is attached, the operating temperature range becomes 0–40 °C (32–104 °F). Note that the projector cannot be used at altitudes 4,200 m (13,780 ft) or higher above sea level. In the following operating environments, light output may be reduced to protect the projector: when the projector is used at altitudes below 1,400 m (4,593 ft) and ambient temperature is 35 °C (95 °F) or higher; when the projector is used at altitudes between 1,400 m (4,593 ft) and 2,700 m (8,858 ft) exclusive and ambient temperature is 30 °C (86 °F) or higher; and when the projector is used at altitudes between 2,700 m (8,858 ft) and 4,200 m (13,780 ft) exclusive and ambient temperature is 25 °C (77 °F) or higher. 11 PT-RQ7L/RQ6L only.

Optional Lenses

		Throw Ratio	
		RQ7L/RQ6L[1]	RZ7L/RZ6L[2]
Fixed-Focus Lens	ET-DLE035	0.378:1	0.380:1
	ET-DLE055	0.782:1	0.785:1
Zoom Lens	ET-DLE020	0.279–0.297:1	0.280–0.299:1
	ET-DLE060	0.597–0.797:1	0.600–0.801:1
	ET-DLE085	0.779–0.972:1	0.782–0.977:1
	ET-DLE105	0.973–1.32:1	0.978–1.32:1
	ET-DLE150	1.29–1.88:1	1.30–1.89:1
	ET-DLE170	1.71–2.40:1	1.71–2.41:1
	ET-DLE250	2.26–3.60:1	2.27–3.62:1
	ET-DLE350	3.56–5.42:1	3.58–5.45:1
	ET-DLE450	5.33–8.53:1	5.36–8.58:1

1 When the image aspect ratio is 16:9. 2 When the image aspect ratio is 16:10.

Optional Accessories

- **Ceiling Mount Bracket**
  ET-PKD130H (6-axis, for high ceiling)
  ET-PKD120H (for high ceiling)
  ET-PKD120S (for low ceiling)
  Note: Use ET-PKD120H, ET-PKD120S, and ET-PKD130H in combination with the optional ET-PKD130B (sold separately). ET-PKD130H is recommended when used with ET-DLE035 or ET-DLE020.
- **Attachment for Ceiling Mount Bracket**
  ET-PKD130B
- **ET-FMP50 Series Media Processors**
  ET-FMP50 / ET-FMP20 / ET-SBFMP10[1]
  1 ET-SBFMP10 is scheduled for release in CY2024 Q4.
  Note: For more information on the ET-FMP50 Series, please visit https://docs.connect.panasonic.com/projector/products/fmp50/.
- **Function Boards**
  12G-SDI Optical Function Board
  TY-SB01FB
  12G-SDI Terminal Board
  TY-SB01QS
  Wireless Presentation System Receiver Board
  TY-SB01WP
- **Wireless Module**
  AJ-WM50 Series
  Note: Product availability may vary by country or region. The model number suffix is omitted. Operating temperature: 0–40 °C (32–104 °F).
- **DIGITAL LINK Switcher**
  ET-YFB200G
  Note: ET-YFB200G is incompatible with 4K signals.
- **Wireless Presentation System PressIT**
  TY-WPS1 (Basic set)
  Note: Availability may vary by country or region. Visit https://panasonic.net/cns/prodisplays/pressit for more information.
- **Real-Time Tracking Projection-Mapping System**
  ET-SWR10
  Note: For PT-RQ7L/RQ6L only. Availability may vary by country or region. Visit https://panasonic.net/cns/projector/products/swr10 for more information.

Panasonic CONNECT

For more information about Panasonic projectors, please visit:
Projector Global Website – **https://panasonic.net/cns/projector/**
Facebook – **www.facebook.com/panasonicprojectoranddisplay**
YouTube – **www.youtube.com/user/PanasonicProjector**

All information included here is valid as of June 2024.

PT-RQ7_Series_PRE4 Printed in Japan.