Panasonic

MEVIX

1-Chip DLP™ Projectors

PT-RQ7 Series

Note: Product availability may vary by country or region.

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

Black Models

White Models *(PT-RZ7L/RZ6L Only)*

Note: Lenses sold separately.

Main Features

01 | Seamless Visuals, Endless Possibilities

Fitting between the FRQ60 Series and the REQ15 Series, the RQ7 Series expands our 1-Chip DLP™ 4K projector lineup to offer more freedom and choice. With Quad Pixel Drive[1] technology, it creates smooth 4K[1] images without visible pixels or gridding, ideal for immersive 360° attractions. Project 1080/240p video[2], and with the ET-SWR10 kit[3], seamlessly blend content and motion in real-time. Dynamic Contrast, Rich Color Enhancer, and Digital Art Mode deepen the sense of realism, drawing guests into the creator's world.

02 | Compact & Expandable for Easy Installation

The RQ7 Series redefines production efficiency. At just 16.6 kg (36.59 lbs) and about 29% smaller than our RZ790/RZ690 models, it lightens the logistical burden and shrinks your carbon footprint. Simplify complex layouts with optional function boards[4] for the Intel® SDM standard-compatible SLOT, including our ET-SBFMP10 with camera-based[5] warping/blending. The RQ7 Series is compatible with existing optional DLE series lenses, including the ET-DLE020 Ultra-Short-Throw Zoom Lens, enabling projection in various environments.

03 | Eco-Friendly Innovation with Proven Reliability

Sustainability is a top priority for the RQ7 Series. The optical engine and light-source module comply with the IP5X Dust Protected (IEC 60529) standard[6], extending picture quality and longevity, while efficient cooling and a filterless design ensure 20,000 hours[7] of maintenance-free operation. Other eco-friendly aspects include plastic parts containing about 73% recycled resins[8] and a new Eco Boost mode that maintains perceived brightness while reducing energy consumption. Multi-Laser Drive Engine and Backup Input[9] secure uninterrupted image display for a consistent visual experience.

PT-RQ7 Series				
	PT-RQ7L	PT-RQ6L	PT-RZ7L	PT-RZ6L
Light Output	7,500 lm[10] / 7,500 lm (ANSI)[11] / 7,700 lm (Center)[12]	6,500 lm[10] / 6,500 lm (ANSI)[11] / 6,700 lm (Center)[12]	7,500 lm[10] / 7,500 lm (ANSI)[11] / 7,700 lm (Center)[12]	6,500 lm[10] / 6,500 lm (ANSI)[11] / 6,700 lm (Center)[12]
Resolution	4K (3840 x 2160 pixels)[1]		WUXGA (1920 x 1200 pixels)	

DLP Texas Instruments · Solid Shine Laser · 4K Professional[1] · Quad Pixel Drive[1] · 240Hz High-speed[2] · 4K Digital Link[13] · Accepts 4K Signal[13] · intel smart display module ready · 360° · Geo:Pro · 24/7 Operation

1 PT-RQ7L/RQ6L only. Maximum physical resolution 3840 x 2160 pixels with Quad Pixel Drive [ON]. 2 PT-RQ7L/RQ6L only. Supports input signals up to 1080p. The display frame rate corresponds to the input signal frame rate. When using the PT-RQ7L/RQ6L to display 1080/100p, 1080/120p, or 1080/240p content, edge blending and geometric adjustment cannot be used. 3 PT-RQ7L/RQ6L only. Optional ET-SWR10 Real-Time Tracking Projection-Mapping System is sold separately. See the global projector website for details. 4 Optional proprietary and third-party function boards compatible with the Intel® SDM standard-compatible SLOT are sold separately. Panasonic Projector & Display Corporation cannot guarantee the operation of third-party devices. 5 Compatible cameras (sold separately) comprise NIKON® D5200/D5300/D5500/D5600/D7500/Z50 and the IDS GV-5890CP-C-HQ. See the global projector website for details on compatible cameras. 6 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. 7 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 Projector & Display Corporation 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. 8 By weight of the total mass of plastic parts in the projector main unit. Excludes projection lenses, printed circuit boards, labels, cables, connectors, electronic components, color sensor cases, optical components, ESD components, EMI component adhesives, and coatings. 9 Primary and backup terminal assignments are fixed, and input signals to each must be identical. 10 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. 11 Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. 12 Average light-output value of all shipped products measured at the center of the screen in NORMAL Mode. 13 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.

Other Features

- Supports Art-Net DMX, PJLink™, Crestron Connected® V2, Crestron® XiO Cloud, and Extron XTP®
- Register 4x user images (BMP/PNG/JPEG) for test patterns, startup logos, and screensavers[1]
- Supports IPv6[2] network protocol
- Data-Cloning Function[3] via LAN or USB
- USB port for DC 5 V/2 A power supply, optional AJ-WM50 Series Wireless Module, and data transfer
- DICOM Simulation Mode
- Waveform Monitor Function

Learn More

For more information, please scan the QR code to access the PT-RQ7 Series product webpage at our global projector website.

1 This feature replaces Logo Transfer Software. 2 Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 3 Data-cloning is supported among models in the same series with the same resolution. Excludes passwords, projector ID, and network settings.

Specifications

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)	
	Number of pixels	2,073,600 (1920 x 1080 pixels)		2,304,000 (1920 x 1200 pixels)	
Light source		Laser diodes			
Light output[1]		7,500 lm[2]/7,500 lm (ANSI)[3]/7,700 lm (Center)[4]	6,500 lm[2]/6,500 lm (ANSI)[3]/6,700 lm (Center)[4]	7,500 lm[2]/7,500 lm (ANSI)[3]/7,700 lm (Center)[4]	6,500 lm[2]/6,500 lm (ANSI)[3]/6,700 lm (Center)[4]
Time until light output declines to 50 %[5]		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[2]		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/ET-DLE450, 2.54–8.89 m (100–350 in) with ET-DLE035, 2.54–10.16 m (100–400 in) with ET-DLE020G/ET-DLE020			
Center-to-corner zone ratio[2]		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-DLE020G/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-DLE020G/ET-DLE020); +88 % (with ET-DLE035); (powered)	
	Horizontal[6]	+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-DLE020G/ET-DLE020); (powered)			
Keystone correction range		Vertical: ±45 ° (±5 ° with ET-DLE020G/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-DLE020G/ET-DLE020/ET-DLE035)			
Terminals	HDMI™ IN	HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input[7])			
	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[7, 8] 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 DC 5 V / 2 A power supply, optional AJ-WM50 Series Wireless Module, and data transfer from USB memory			
	Expansion slot	Open slot for function boards, Intel® SDM standard-compatible			
Protocol versions		IPv4, IPv6[9]			
Power supply		Single-phase AC 100–240 V, 50/60 Hz			
Maximum power consumption[10]		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)[10]	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)
Operation noise[2]		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)		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[11]		16.6 kg (36.59 lbs)			
Operating environment		Operating temperature: 0–45 °C (32–113 °F)[12], operating humidity: 10–80 % (no condensation)			
Applicable software		Multi Monitoring & Control Software, Projector Network Setup Software, Real-Time Tracking Projection-Mapping System[13], 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 When ET-DLE170 is attached. When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. 2 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. 3 Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. 4 Average light-output value of all shipped products measured at the center of the screen. 5 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, Dynamic Contrast [3], temperature 35 °C (95 °F), elevation 700 m (2,297 ft), with 0.15 mg/m³ of airborne particulate matter. The estimated time until light output declines to 50 % varies depending on the environment. 6 Cannot be used when ET-DLE035 is installed. 7 4K signals are converted to WUXGA (1920 x 1200 pixels) only for the PT-RZ7L/RZ6L. 8 Supports YPBPR 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK. 9 Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 10 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). 11 Average value. May differ depending on the actual unit. 12 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. 13 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-DLE020G/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: ET-PKD120H, ET-PKD120S, and ET-PKD130H are used with the optional ET-PKD130B attachment (sold separately). ET-PKD130H is recommended when the ET-DLE035 or ET-DLE020G/ET-DLE020 lenses are used.
- **Attachment for Ceiling Mount Bracket**
  ET-PKD130B
- **ET-FMP50 Series Media Processors**
  ET-FMP50 / ET-FMP20 / ET-SBFMP10
  Note: For more information on the ET-FMP50 Series, please visit https://docs.connect.panasonic.com/projector/products/fmp50/.
- **Function Boards**
  12G-SDI Terminal Board (TY-SB01QS) / Wireless Presentation System Receiver Board (TY-SB01WP) / 12G-SDI Optical Function Board (TY-SB01FB)
- **Wireless Module**
  AJ-WM50 Series
  Note: Availability may vary by country or region. The suffix at the end of the model number is omitted. Operating temperature: 0–40 °C (32–104 °F).
- **Wireless Presentation System PressIT**
  TY-WPS2 (basic set)
  Note: visit https://docs.connect.panasonic.com/prodisplays/products/ty-wps2/ for more information.
- **Real-Time Tracking Projection-Mapping System**
  ET-SWR10
  Note: PT-RQ7L/RQ6L only. Availability may vary by country or region. For more information, visit https://docs.connect.panasonic.com/projector/products/swr10/.

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For more information about Panasonic projectors, please visit:

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All information included here is valid as of July 2025.

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