

3-Chip DLP™ Projector

PT-RQ50K

Note: Product availability varies by country or region.

50,000lm의¹압도적 밝기,
네이티브 4K 해상도와
생생한 컬러로
영상 경험의 혁신을



Note: Lens sold separately.

■ Main Features

01 | 압도적인 색 표현력의 네이티브 4K 영상

완벽한 네이티브 4K(4096 × 2160) 영상을 구현하는 PT-RQ50K는 서로 다른 파장의 적색 레이저 1개와 청색 레이저 2개를 결합한 레이저 광학 엔진을 탑재하여, 탁월한 밝기와 정확하고 풍부한 색 재현력을 제공합니다. 스포츠 이벤트, 아레나 콘서트, 야외 프로젝션 매핑, 박물관 전시 등 다양한 현장에서 기대를 뛰어넘는 압도적인 영상 경험을 선사합니다.

02 | 물류와 설치를 간소화하는 All-in-One 바디 설계

냉각 시스템을 통합한 컴팩트한 올인원 설계로 운송과 설치 효율을 높였습니다. NFC 기능²을 통해 AC 전원 없이도 사전 설정 작업이 가능하며, 듀얼 전원 입력(미국/일본 전용)은 고전압 연결 전 메인 전원을 이용한 설치 및 점검을 지원합니다. 또한 FMP0 시리즈 박스형 프로세서³와 연동하여 멀티 프로젝션 구성을 간소화하며, Remote Preview 및 Information Monitor 기능으로 사전 점검과 실시간 상태 모니터링이 가능합니다.

03 | 독자적인 냉각 시스템으로 안정적인 프로젝션 구현

Dynamic Digital Control과 전용 냉각 회로가 적색 레이저를 정밀하게 제어하여 온도 변화에도 안정적인 색 균형을 유지합니다. 또한 핀리스(Finless) 라디에이터를 적용한 액체 냉각 시스템은 냉각 효율과 신뢰성을 향상시키며, 방진 설계의 광학 엔진과 필터리스 구조를 통해 최대 20,000시간⁴의 유지보수 없는 안정적인 운용을 지원합니다.

	PT-RQ50K
Light Output	50,000 lm ¹ / 50,000 lm (ANSI) ⁵ / 51,000 lm (Center) ⁶
Resolution	Native 4K (4096 x 2160 pixels)



¹ When [OPERATING MODE] is set to [NORMAL]. Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. ² Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate NFC function. ³ ET-FMP50/FMP20 box-type media processors are sold separately. ⁴ Around this time, the light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, 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 the 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. ⁵ When [OPERATING MODE] is set to [NORMAL]. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. ⁶ Average light output value of all shipped products measured at the center of the screen in NORMAL Mode. ⁷ YPbPr 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK.

깊고 정확한 색 표현을 구현하는

RED / BLUE 레이저 광원

청색 레이저 2개와 적색 레이저 1개를 결합한 광학 엔진이 더욱 넓은 색역을 구현하여, 화면 가득 풍부하고 생생한 색감을 표현합니다. 최적화된 청색 레이저 파장은 더욱 순도 높은 블루를 재현하며, 적색 레이저는 레드 표현력을 강화해 한층 사실감 있는 영상을 제공합니다.

냉각 시스템을 내장한 컴팩트 올인원 바디

PT-RQ50K는 냉각 시스템을 내장한 컴팩트하고 경량의 올인원 설계를 통해 네이티브 4K 영상을 구현하며, 대규모 이벤트 현장의 운송 및 설치 효율을 높입니다. 핀리스(Finless) 라디에이터를 적용한 액체 냉각 시스템이 뛰어난 냉각 성능을 제공하며, Dynamic Digital Control을 적용한 독립 적색 레이저 제어 회로가 우수한 색균일성과 안정적인 영상 품질을 지원합니다.

1 Around this time, the light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode 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 the 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. 2 Check device and OS compatibility at the App Store or the Google Play store. For more information, please visit our global website. 3 Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate NFC function. See NFC Regional Compatibility List for details. 4 Some mobile devices do not support projector auto-focus function. 5 Combination of primary and backup input terminals is fixed, and signals to primary and backup terminals must be identical.

Specifications

Model		PT-RQ50K
Projector type		3-Chip DLP™ projector
DLP™ chip	Panel size	35.1 mm (1.38 in) diagonal (17:9 aspect ratio)
	Display method	DLP™ chip x 3, DLP™ projection system
	Number of pixels	8,847,360 (4096 x 2160 pixels) x 3
Light source		Laser diodes (Blue LD, Red LD)
Light output¹		50,000 lm² / 50,000 lm (ANSI)² / 51,000 lm (Center)⁴
Time until light output declines to 50 %⁵		20,000 hours (NORMAL)
Resolution		Native 4K (4096 x 2160 pixels)
Contrast ratio²		20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)
Screen size [diagonal]		2.54–38.1 m (100–1,500 in) with optional lenses for PT-RQ50K, 17:9 aspect ratio
Center-to-corner zone ratio²		90 %
Lens		Optional lenses for PT-RQ50K (no lens included with this model)
Lens shift	Vertical (from center of screen)	±45 % (±25 % with ET-D3QT600; ±30 % with ET-D3QT700/ET-D3QT800; ±40 % with ET-D3QW300; -8 %, +50 % with ET-D3QW200) (powered)
	Horizontal (from center of screen)	±16 % (±8 % with ET-D3QT600; ±10 % with ET-D3QT700/ET-D3QT800; ±14 % with ET-D3QW300; 0 %, +17 % with ET-D3QW200) (powered)
Keystone correction range		Vertical: ±40° (±15° with ET-D3QW200, ±28° with ET-D3QW300); Horizontal: ±40° (±5° with ET-D3QW200, ±15° with ET-D3QW300)
Terminals	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 (RS-232C compliant)
	REMOTE 1 IN	M3 stereo mini-jack x 1 for wired remote control
	REMOTE 1 OUT	M3 stereo mini-jack x 1 for link control
	REMOTE 2 IN	D-sub 9-pin (female) x 1 for external control (parallel)
	DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connections (HDBase™ compliant), PJLink™ (Class 2) compatible, 100Base-TX, Art-Net compatible, HDCP 2.2 compatible, Deep Color compatible
	LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible
	DC OUT	USB connector (Type A) x 2 for power supply only (DC 5 V, total of 2 A)
	USB	USB connector (Type A) x 1 for optional Wireless Module (AJ-WM50 Series) / USB Memory Stick
	Expansion Slot 1	Interface Board for 12G-SDI (ET-MDN12G10) supplied
	Expansion Slot 2	Optional interface boards, SLOT NX compatible
Power supply		Single-phase AC 200–240 V, 50/60 Hz; Single-phase AC 100–120 V, 50/60 Hz (Brightness restricted to one fifth with voltage of 100–120 V)
Power consumption		4,100 W (AC 100–120 V; 1,100 W, Standby Mode: 6 W)
Operation noise²		52 dB
Dimensions (W x H x D)		720 x 445 x 1,070 mm (28 11/32" x 17 17/32" x 42 1/8") (excluding handle, adjuster feet, and other protruding parts)
Weight⁷		Approx. 126 kg (278 lbs) (without lens)
Operating environment		Operating temperature: 0–45 °C (32–113 °F) ^{8, 9, 10} , operating humidity: 10–80 % (no condensation)
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Geometry Manager Pro, Smart Projector Control for iOS/Android™

1 When [OPERATING MODE] 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, NORMAL Mode, Dynamic Contrast [3], under conditions with 35 °C (95 °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. 6 When PT-RQ50K's handle is attached, vertical lens-shift range is -8 % – +50 %. Vertical lens-shift range is -50 % – +50 % with PT-RQ50K's supplied handle removed. Please refer to instruction guide for details on how to remove the handle. 7 Average value. May differ depending on the actual unit. 8 The operating environment temperature should be between 0 °C (32 °F) and 40 °C (104 °F) if the projector is used at an altitude between 1,400 m (4,593 ft) and 4,200 m (13,780 ft). 9 When optional AJ-WM50 Wireless Module is attached, operating temperature range becomes 0–40 °C (32–104 °F). 10 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.

Optional Accessories

- **Zoom Lens**
ET-D3QW200 (0.55–0.65:1) / ET-D3QW300 (1.11–1.70:1) / ET-D3QS400 (1.43–2.09:1) / ET-D3QT500 (2.00–3.41:1) / ET-D3QT600 (2.69–3.88:1) / ET-D3QT700 (3.89–5.47:1) / ET-D3QT800 (4.97–7.76:1)
 - **Interface Board for 12G-SDI Input (Input x 2, Input/Output x 2)**
ET-MDN12G10
 - **Interface Board for HDMI™ (HDCP 2.2) Input (Input x 2)**
ET-MDNHM10
- **Interface Board for DVI-D (Input x 2)**
ET-MDNVDV10
 - **Interface Board for DisplayPort™ (Input x 2)**
ET-MDNPD10
 - **Wireless Module**
AJ-WM50 Series
Note: Product 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).
- **ET-FMP50 Series Media Processors**
ET-FMP50 / ET-FMP20
Note: For more information, please visit: <https://docs.connect.panasonic.com/projector/products/fmp50/>.
 - **NFC Upgrade Kit**
ET-NUK10
Note: Product availability may vary by country or region.



For more information about Panasonic projectors, please visit:

PPND Korea Website – <https://ap.pnd.panasonic.com/kr/ko>

Instagram – https://www.instagram.com/panasonic_projector_kr/

YouTube – www.youtube.com/user/PanasonicProjector

LinkedIn – <https://www.linkedin.com/company/panasonic-projector-and-display/>

X – https://x.com/Panasonic_PND/

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