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PT-REQ12 Series

1-Chip DLP™ Projectors

PT-REQ12/PT-REQ12L
PT-REQ10/PT-REQ10L
PT-REQ80/PT-REQ80L

Expand Production Possibilities and Revolutionize Workflow with Next-Generation 1-Chip DLP™ 4K[1] Projectors

■ Main Features

01 | Dramatic Visuals Take Your Production to New Heights

Quad Pixel Drive creates smooth 4K[1] images and enables 2K/240 Hz[3] projection with a latency of 6 ms[4] or less when used with our optional real-time tracking projection mapping SDK. Evolved Dynamic Contrast achieves higher white brightness and deeper blacks. Rich Color Enhancer revitalizes color expression for accurate artwork reproduction.

02 | Effortless Workflow, Improved Expandability

As production complexity increases, REQ12 Series further expands functionality, interfaces, and options for a smoother workflow. It suits new optional lenses and has an Intel® SDM-ready slot. Import custom test patterns[5], use NFC function[6] to save prep time, and streamline adjustment with preactivated upgrade kits for Geo Pro[7].

03 | New Cabinet Design for Reliable Operation

REQ12 Series features an optical engine and laser light source module compliant with the IP5X Dust Protected (IEC 60529)[8] standard and a refined liquid cooling system that enable up to 20,000 hours[9] of maintenance-free projection. Backup Input[10] and Multi Laser Drive Engine enhance reliability and add insurance against interruptions.

Black Models

White Models

PT-REQ12 Series

	REQ12		REQ12L	REQ10		REQ10L	REQ80		REQ80L
Light Output	12,000 lm[11]/12,400 lm (Center)[12]			10,000 lm[11]/10,300 lm (Center)[12]			8,000 lm[11]/8,200 lm (Center)[12]		
Resolution	4K (3840 x 2400)[13]								
Lens	With supplied lens	Without lens		With supplied lens	Without lens		With supplied lens	Without lens	

Note: ET-C1S600 is equivalent to the supplied lens (availability may vary by country or region).

1 With Quad Pixel Drive [ON]. 2 Only when the optional TY-SB01DL DIGITAL LINK Terminal Board is loaded. 3 Supports input signals up to 1080p. The display frame rate corresponds to the input signal frame rate. 4 Value is approximate. May vary depending on the input signal, peripheral devices, and other conditions. 5 Supports PNG (1/8/16/24/32/48/64-bit, non-transparent, alpha blending disabled) and BMP (1/8/24-bit) formats with a maximum resolution of 3840 x 2400 dots. 6 Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate the NFC function. See NFC Regional Compatibility List for details. 7 Visit PASS to register your projector and download free Geometry Manager Pro software. 8 The dust-proof 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, 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 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. 10 Primary and backup terminal assignments are fixed. Input signals to primary and backup inputs must be identical. 11 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 Average light output value of all shipped products measured at the center of the screen in NORMAL Mode. 13 Maximum physical resolution with Quad Pixel Drive [ON].

Absolutely Immersive Visual Realism

REQ12 Series has exclusive tech that fully immerses guests in the experience. Quad Pixel Drive creates 4K[1] images without visible pixels, while evolved Dynamic Contrast dramatically enhances the sense of realism. Colors are rich and accurate for artwork. Share action sequences without blur or lag at 240 Hz[2] or add our SDK[3] for real-time tracking projection mapping with a latency of 6 ms[4] or less. Content with a 21:9 aspect ratio is also supported.

Adapts Seamlessly to Your Site

Bring jaw-dropping visuals to any space thanks to the projector's compact size and unrivaled installation flexibility. Select the perfect low-aberration lens for your spatial design from our new lineup[5] featuring improved native contrast, powered periphery focus[6], and expanded lens shift range. Intel® SDM compatibility[7] adapts to any application, while evolved black level adjustment joins preactivated Geo Pro upgrade kits[8] in streamlining complex tasks.

Timesaving Workflow and Smooth UX

Workflow is streamlined by timesaving features that evolved from user feedback and our production experience at the world's biggest events. Check your content on PC before projection with Remote Preview LITE[9], import custom test patterns[10], prep projectors for setup without AC power with NFC function[11], adjust settings via smartphone app[12], and find the right projection angle using on-screen data from a new gyro sensor.

Robust Reliability in Tough Conditions

Enjoy peace of mind with failsafe reliability for long-term operation, free from worry about interruptions. The liquid-cooled REQ12 Series has an optical engine and laser light source module compliant with the IP5X Dust Protected (IEC 60529)[13] standard to enable 20,000 hours[14] of operation, a Backup Input[15] function to prevent display interruptions, and a Multi-Laser Drive Engine to reduce brightness loss should a diode fail.

Other Features

- Supports Art-Net DMX, PJLink™, Crestron Connected® V2, Crestron® XiO Cloud, Extron XTP®, and IPv6[16]
- 1 USB port for DC 5 V/2 A power supply, 1 USB port for optional AJ-WM50 Series Wireless Module and data transfer from USB memory devices
- Detail Clarity Processor 4
- Quick Start and Quick Off
- Multi-Screen Support System
- DICOM Simulation Mode
- Waveform Monitor Function
- Power Management System

1 With Quad Pixel Drive [ON]. 2 Supports input signals up to 1080p. The display frame rate corresponds to the input signal frame rate. 3 Optional ET-SWR10 Real-Time Tracking Projection-Mapping System sold separately. Availability may vary by country or region. 4 Value is approximate. May vary depending on the input signal, peripheral devices, and other conditions. 5 ET-C1S600 is equivalent to the supplied lens (availability may vary by country or region). Models with an L designation ship without a lens. 6 Excluding ET-C1S600 and ET-C1T700 lenses. 7 Proprietary and third-party Intel® SDM-ready function boards sold separately. Panasonic cannot guarantee the operation of third-party devices. 8 Visit PASS to register your projector and download free Geometry Manager Pro software for Windows® (upgrade kits included). 9 Requires Multi-Monitoring & Control Software Version 3.3 or later. 10 Supports PNG (1/8/16/24/32/48/64-bit, non-transparent, alpha blending disabled) and BMP (1/8/24-bit) formats with a maximum resolution of 3840 x 2400 dots. 11 Projectors sold in some countries or regions require an ET-NUK10 Upgrade Kit available from PASS to activate the NFC function. See NFC Regional Compatibility List for details. 12 Smart Projector Control app is available free from the App Store or the Google Play store. Check device and OS compatibility before downloading and installing the app on your device. 13 The dust-proof 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. 14 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 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. 15 Primary and backup terminal assignments are fixed. Input signals to primary and backup inputs must be identical. 16 The optional AJ-WM50 Series Wireless Module is incompatible with IPv6.

Specifications

Model			PT-REQ12	PT-REQ12L	PT-REQ10	PT-REQ10L	PT-REQ80	PT-REQ80L
Projector type			1-Chip DLP™ projectors					
DLP™ chip	Panel size		0.8 in diagonal (16:10 aspect ratio)					
	Number of pixels		2,304,000 (1920 x 1200 pixels)					
Light source			Laser diode					
Light output[1, 2]			12,000 lm / 12,400 lm (Center)[3]		10,000 lm / 10,300 lm (Center)[3]		8,000 lm / 8,200 lm (Center)[3]	
Time until light output declines to 50 %[4]			20,000 hours (NORMAL/QUIET), 24,000 hours (ECO)					
Resolution			4K (3840 x 2400 pixels) (Quad Pixel Drive: ON)					
Contrast ratio[1]			25,000:1 (Full On/Full Off, Dynamic Contrast [3])					
Screen size (diagonal)			70–700 inches (with supplied lens)					
Center-to-corner zone ratio[1]			90 %					
Lens			PT-REQ12/REQ10/REQ80: Powered zoom (throw ratio 1.36–2.10:1 for supplied lens), powered focus; PT-REQ12L/REQ10L/REQ80L: Optional powered zoom/focus lenses					
Lens shift (From the origin point of the lens mounter)	Vertical		±60 % (with ET-C1W400/W500/S600/T700), ±50 % (with ET-C1W300/U100)					
	Horizontal		±29 % (with ET-C1W400/W500/S600/T700), ±23 % (with ET-C1W300/U100)					
Keystone correction range			Vertical: ±40 ° (±5 ° with ET-C1U100; ±10 ° with ET-C1W300; ±16 ° with ET-C1W400; ±22 ° with ET-C1W500), Horizontal: ±40 ° (±3 ° with ET-C1U100; ±5 ° with ET-C1W300; ±10 ° with ET-C1W400; ±15 ° with ET-C1W500)					
Terminals	HDMI™ 1/2 IN		HDMI™ x 2 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input)					
	DisplayPort™		DisplayPort™ x 1 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input)					
	MULTI SYNC IN		BNC x 1					
	MULTI 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 (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, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible					
	USB		USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module/USB memory					
	DC OUT		USB Type A x 1 (for power supply, DC 5 V, 2 A)					
	Expansion slot		Open slot for for function boards, Intel® SDM compatible					
Protocol versions			IPv4, IPv6[5]					
Power supply			AC 100–240 V, 50/60 Hz					
Power consumption[6]	Maximum power consumption		1,030 W (10.4–4.3 A) (1,040 VA) (Power consumption is 990 W at AC 200–240 V)		870 W (8.8–3.7 A) (880 VA) (Power consumption is 840 W at AC 200–240 V)		760 W (7.7–3.2 A) (770 VA) (Power consumption is 730 W at AC 200–240 V)	
	On-mode power consumption (Operating mode)	NORMAL	880 W (AC 100–120 V), 840 W (AC 200–240 V)		725 W (AC 100–120 V), 695 W (AC 200–240 V)		595 W (AC 100–120 V), 575 W (AC 200–240 V)	
		ECO	680 W (AC 100–120 V), 655 W (AC 200–240 V)		565 W (AC 100–120 V), 545 W (AC 200–240 V)		470 W (AC 100–120 V), 455 W (AC 200–240 V)	
		QUIET	670 W (AC 100–120 V), 645 W (AC 200–240 V)		555 W (AC 100–120 V), 535 W (AC 200–240 V)		465 W (AC 100–120 V), 450 W (AC 200–240 V)	
Operation noise[1]			38 dB (NORMAL/ECO), 35 dB (QUIET)		36 dB (NORMAL/ECO), 33 dB (QUIET)		35 dB (NORMAL/ECO), 32 dB (QUIET)	
Dimensions (W x H x D)			PT-REQ12/REQ10/REQ80: 498 x 212 x 648 mm (19 $^{19}/_{32}$" x 8 $^{11}/_{32}$" x 25 $^{1}/_{2}$") (With feet at shortest position) PT-REQ12L/REQ10L/REQ80L: 498 x 212 x 538 mm (19 $^{19}/_{32}$" x 8 $^{11}/_{32}$" x 21 $^{3}/_{16}$") (With feet at shortest position)					
Weight[7]			PT-REQ12/REQ10/REQ80: Approx. 28.7 kg (63.28 lbs) (with supplied lens), PT-REQ12L/REQ10L/REQ80L: Approx. 27.0 kg (59.53 lbs) (without lens)					
Operating environment			Operating temperature: 0–45 °C (32–113 °F)[8], operating humidity: 10–80 % (no condensation)					
Applicable software			Logo Transfer Software, Multi Monitoring & Control Software, Projector Network Setup Software, Real-Time Tracking Projection-Mapping System, Early Warning Software, 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 the average of all products when shipped. 2 When [OPERATING MODE] is set to [NORMAL]. 3 Average light output value of all shipped products measured at center of screen in [NORMAL] Mode. 4 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. Estimated time until light output declines to 50 % varies depending on the environment. 5 Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 6 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). 7 Average value. May differ depending on the actual unit. 8 When the optional AJ-WM50 Series wireless module is attached, the operating temperature range becomes 0–40 °C (32–104 °F). 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).