Panasonic CONNECT

PT-REZ12 Series

1-Chip DLP™ Projectors

PT-REZ12/PT-REZ12L
PT-REZ10/PT-REZ10L
PT-REZ80/PT-REZ80L

Evolved 1-Chip DLP™ Projectors Transform Your Experience with a Smooth, Frictionless Workflow

■ Main Features

01 | Seamless, High-Contrast Visuals Deepen Engagement

New scene-recognition circuitry and a higher 25,000:1[3] contrast ratio improve Dynamic Contrast dramatically, and colors are vibrant yet accurate thanks to Rich Color Enhancer technology. Black-level adjustment evolves to enable seamless blending on curved screens, while Gradation Smoother easily corrects color banding.

02 | Flexibility and Expandability for a Timesaving Workflow

To adapt projection to any situation, REZ12 Series works with new optional lenses and features an Intel® SDM-ready slot to integrate optional function boards[4] that expand and scale connectivity. You can import custom test patterns[5], use NFC function[6] to save prep time, and streamline adjustment with preactivated Geo Pro[7] upgrade kits.

03 | New Compact Body Supports Maintenance-free Projection

REZ12 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] switches to a secondary signal to prevent interruptions if the primary is disrupted.

Black Models

White Models

PT-REZ12 Series

	PT-REZ12	PT-REZ12L	PT-REZ10	PT-REZ10L	PT-REZ80	PT-REZ80L
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	WUXGA (1920 x 1200)					

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

1 Only when the optional TY-SB01DL DIGITAL LINK Terminal Board is loaded. 2 Input signals are converted to the projector's display resolution upon playback. YPBPR 4:2:0 format only for 4K/60p signals input via DIGITAL LINK. 3 Full On/Full Off with Dynamic Contrast set to [3]. 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. 4 Third-party and optional proprietary Intel® SDM-ready function boards sold separately. Panasonic cannot guarantee the operation of third-party devices. 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 1920 x 1200 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 environmental conditions. Replacement of parts other than the light source may be required in a shorter period. The 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.

For an Immersive Visual Experience

With a higher 25,000:1[1] contrast ratio and new scene-analysis circuitry, Dynamic Contrast makes the difference between black, white, and contrasting colors stand out dramatically. Rich Color Enhancer revitalizes color expression to reproduce artwork accurately. Gradation Smoother and Detail Clarity Processor 4 resolve imperfections for an overwhelmingly realistic experience. Content with a 21:9 aspect ratio is also supported.

Easy Installation and Integration

Lightweight and easy to handle, the REZ12 Series smooths out workflow hassle with a flexible design to fit confined installation spaces. It suits new lenses with powered periphery focus[2] and a wider shift range. Intel® SDM-ready[3] slot expands connectivity, while a new sensor enables projection angle display via GUI. Preactivated upgrade kits for Geo Pro[4] and improved black level adjustment save time when mapping on curved screens.

Designed Around Professional Users

REZ12 Series is near the peak of 1-Chip DLP™ projector evolution with intuitive features that make life easy for integrators and operators, especially at events where setup time is limited. You can use Remote Preview Lite[5] to check content before projection, import custom test patterns[6], prep for setup without AC power using NFC function[7], and control and adjust up to 64 projectors from your smartphone[8].

Dust Resistant for Lasting Reliability

Project your content with confidence, free from worry about unexpected interruptions or maintenance downtime. REZ12 Series has an optical engine and laser light source module compliant with the IP5X Dust Protected (IEC 60529)[9] standard, enabling reliable, maintenance-free operation in dusty conditions for up to 20,000 hours[10]. Backup Input[11] and Multi-Laser Drive Engine maintain image display in the event of trouble.

Other Features

- Supports Art-Net DMX, PJLink™, Crestron Connected® V2, Crestron® XiO Cloud, Extron XTP®, and IPv6[12]
- 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
- Free 360° Installation
- Quick Start and Quick Off
- Multi-screen Support System
- DICOM Simulation Mode
- Waveform Monitor Function
- Power Management System

1 Full On/Full Off with Dynamic Contrast set to [3]. 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 Excluding ET-C1S600 and ET-C1T700 lenses. 3 Third-party and optional proprietary Intel® SDM-ready function boards are sold separately. Panasonic cannot guarantee the operation of third-party devices. 4 Visit PASS to register your projector and download free Geometry Manager Pro software. 5 Requires Multi Monitoring & Control Software Ver. 3.3 or later. 6 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 1920 x 1200 dots. 7 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. 8 Requires Smart Projector Control app available free from the App Store or Google Play Store. 9 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. 10 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 environmental conditions. Replacement of parts other than the light source may be required in a shorter period. The estimated maintenance time varies depending on the environment. 11 Primary and backup terminal assignments are fixed. Input signals to primary and backup inputs must be identical. 12 Optional AJ-WM50 Series Wireless Module is incompatible with IPv6.

Specifications

Model		PT-REZ12	PT-REZ12L	PT-REZ10	PT-REZ10L	PT-REZ80	PT-REZ80L
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		WUXGA (1920 x 1200 pixels)					
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-REZ12/REZ10/REZ80: Powered zoom (throw ratio 1.36–2.10:1 for supplied lens), powered focus; PT-REZ12L/REZ10L/REZ80L: 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[5])					
	DisplayPort™	DisplayPort™ x 1 (Deep Color, compatible with HDCP 2.3, 4K/60p signal input[5])					
	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[6]					
Power supply		AC 100–240 V, 50/60 Hz					
Maximum power consumption[7]		995 W (10.4–4.3 A) (1,005 VA) (Power consumption is 950 W at AC 200–240 V)		840 W (8.8–3.7 A) (850 VA) (Power consumption is 810 W at AC 200–240 V)		730 W (7.7–3.2 A) (740 VA) (Power consumption is 700 W at AC 200–240 V)	
On-mode power consumption (Operating mode)[7]	NORMAL	850 W (AC 100–120 V), 810 W (AC 200–240 V)		700 W (AC 100–120 V), 675 W (AC 200–240 V)		570 W (AC 100–120 V), 540 W (AC 200–240 V)	
	ECO	650 W (AC 100–120 V), 625 W (AC 200–240 V)		540 W (AC 100–120 V), 525 W (AC 200–240 V)		440 W (AC 100–120 V), 425 W (AC 200–240 V)	
	QUIET	640 W (AC 100–120 V), 615 W (AC 200–240 V)		530 W (AC 100–120 V), 515 W (AC 200–240 V)		435 W (AC 100–120 V), 420 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-REZ12/REZ10/REZ80: 498 x 212 x 648 mm (19 $19/32$″ x 8 $11/32$″ x 25 $1/2$″) (With feet at shortest position) PT-REZ12L/REZ10L/REZ80L: 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-REZ12/REZ10/REZ80: Approx. 28.7 kg (63.27 lbs) (with supplied lens), PT-REZ12L/REZ10L/REZ80L: Approx. 27.0 kg (59.52 lbs) (without lens)					
Operating environment		Operating temperature: 0–45 °C (32–113 °F)[9], operating humidity: 10–80 % (no condensation)					
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Projector Network Setup Software, 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 the center of the 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. The estimated time until light output declines to 50 % varies depending on the environment. 5 4K signals are converted to WUXGA (1920 x 1200 pixels). 6 Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 7 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). 8 Average value. May differ depending on the actual unit. 9 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).

Optional Accessories

- **Zoom Lens**
  ET-C1U100 (0.308–0.330:1)[1] / ET-C1W300 (0.550–0.690:1) / ET-C1W400 (0.680–0.950:1)[2] / ET-C1W500 (0.940–1.39:1)[2] / ET-C1S600 (1.36–2.10:1) / ET-C1T700 (2.07–3.38:1)[2]
  Note: Lenses are equipped with Auto Lens Identification Function. ET-C1S600 is equivalent to the supplied lens (availability may vary by country or region). Models with an L designation ship without a lens.
  1 Estimated for release in CY2023 Q4.
  2 Estimated for release in CY2023 Q3
- **Ceiling Mount Bracket**
  ET-PKD120H (for high ceilings) / ET-PKD120S (for low ceilings) / ET-PKD130H (with 6-axis adjustment mechanism)
  Note: ET-PKD120H/PKD120S/PKD130H is used in combination with ET-PKD130B (sold separately).
- **Attachment for Ceiling Mount Bracket**
  ET-PKD130B
- **Function Boards**
  12G-SDI Terminal Board (TY-SB01QS) / Wireless Presentation System Receiver Board (TY-SB01WP) / DIGITAL LINK Terminal Board (TY-SB01DL) / 12G-SDI Optical Function Board (TY-SB01FB)
  Note: TY-SB01FB is estimated to ship in CY2023 Q3.
- **DIGITAL LINK Switcher / Digital Interface Box**
  ET-YFB200G / ET-YFB100G
  Note: Requires TY-SB01DL DIGITAL LINK Terminal Board (sold separately). ET-YFB200G/YFB100G is incompatible with 4K signals.
- **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-WPS1 (basic set)
  Note: Availability may vary by country or region.
- **NFC Upgrade Kit** ET-NUK10
  Note: Availability may vary by country or region.

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 July 2023.

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