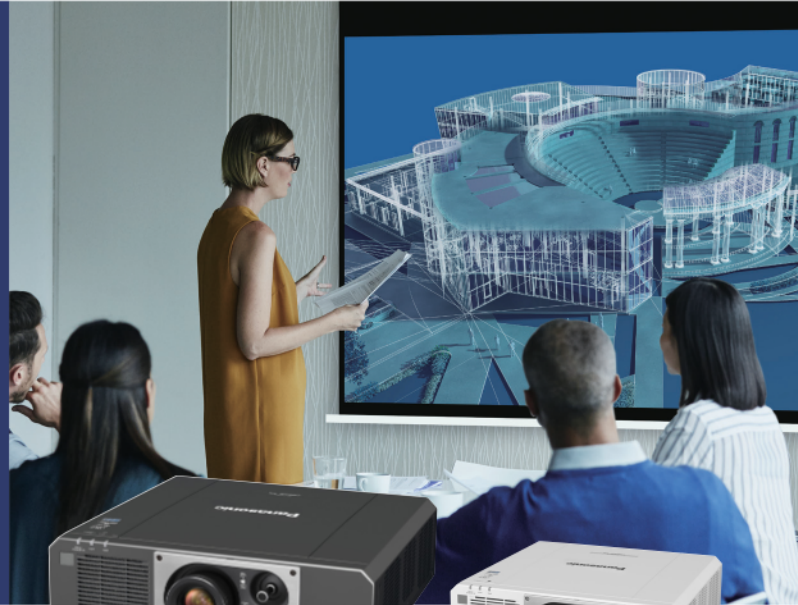


1-Chip DLP™ Projectors

PT-FRQ60 Series

Note: Product availability varies by country or region.

Compact 1-Chip DLP™
Projectors Deliver Smooth,
Detailed Images for an
Insightful Visual Experience



Black Models

White Models

■ Main Features

01 | Smooth and Detailed 4K¹ Image Quality

Quad Pixel Drive, Panasonic's original 2-axis pixel-quadrupling technology, creates crisp, sharp, and smooth 4K¹ images. Frame rates up to 240 Hz/1080p² are supported with 8 ms³ latency or less. Rich Color Enhancer produces deep, accurate color for artwork. Together, these technologies deliver insightful visual experiences in museums and STEM classrooms.

02 | Flexible, Simple to Use, and Easy to Integrate

Wide-range V/H Lens-Shift and 2.0x zoom enhance installation flexibility while two CEC command-compatible⁴ HDMI™ inputs and 4K DIGITAL LINK simplify operation and integrate the projector into 4K system infrastructure. Free Grid and Remote Preview Lite⁵ secure effortless installation.

03 | Highly Reliable Low-Maintenance Projection

Heat-pipe cooling system enables implementation of a dust-resistant optical engine, eliminating need of a filter for 20,000 hours⁶ of maintenance-free projection. Multi-Laser Drive Engine⁷ has Failover Circuitry⁸ to reduce brightness loss should a laser diode fail.

PT-FRQ60 Series		
	PT-FRQ60	PT-FRQ50
Light Output	6,000 lm ⁹ / 6,000 lm (ANSI) ¹⁰ / 6,200 lm (Center) ¹¹	5,200 lm ⁹ / 5,200 lm (ANSI) ¹⁰ / 5,400 lm (Center) ¹¹
Resolution	4K (3840 x 2160 pixels) ¹ , 16:9	



¹ Maximum physical resolution 3840 x 2160 pixels (16:9) with Quad Pixel Drive [ON]. ² Supports input signals up to 1080p. The display frame rate corresponds to the input signal frame rate. When using the projector to display 1080/120p or 1080/240p content, edge blending and geometric adjustment cannot be used. ³ Varies depending on the input signal, peripheral devices, and other factors. ⁴ Depending on the connected CEC command-compatible device, the link control may not operate normally. ⁵ Requires Multi Monitoring & Control Software Version 3.2 or later. ⁶ Around this time, light output will have decreased to approximately 50 % of its original level ([PICTURE MODE]: [DYNAMIC], [DYNAMIC CONTRAST] set to [2], temperature 30 °C [86 °F], elevation 700 m [2,297 ft] with 0.15 mg/m³ of particulate matter). ⁷ Rate of brightness decrease varies depending on projector model. ⁸ Specifications vary depending on projector model. ⁹ When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. 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. ¹⁰ When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] 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. ¹¹ Average light-output value of all shipped products measured at the center of the screen in [NORMAL] Mode. ¹² YPbPr 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK.

Smooth 4K with Vivid Color

Quad Pixel Drive provides smooth, gridless 4K¹ resolution for precise reproduction of digital artwork, CAD drawings, architectural designs, and other detailed images. Rich Color Enhancer features a Standard/Graphic Mode that optimizes red-channel output for deep and natural color expression, and Dynamic Mode to balance brightness and color for clearest visibility in well-lit environments.

Smooth Playback of 240 Hz Content

The FRQ60 Series supports frame rates up to 240 Hz/1080p² with input-to-output latency of 8 ms³ or less for applications where smooth motion is important. The projector also works with ET-SWR10⁴, a ready-to-use tracking projection-mapping SDK that enables image projection onto fast-moving objects at up to 240 fps to add lifelike interactivity to your museum exhibit.

1 Maximum physical resolution 3840 x 2160 pixels (16:9) with Quad Pixel Drive [ON]. 2 Supports input signals up to 1080p. The display frame rate corresponds to the input signal frame rate. When using the projector to display 1080/120p or 1080/240p content, edge blending and geometric adjustment cannot be used. 3 Varies depending on the input signal, peripheral devices, and other factors. 4 The optional ET-SWR10 Software Development Kit (SDK) is used with third-party devices (sold separately). Compatibility with third-party devices cannot be guaranteed, and other conditions apply. For more information, please visit the ET-SWR10 webpage. 5 YPbPr 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK. 6 Depending on the connected CEC command-compatible device, the link control may not operate normally. 7 Around this time, light output will have decreased to approximately 50 % of its original level (PICTURE MODE): [DYNAMIC], [DYNAMIC CONTRAST] set to [2], temperature 30 °C [86 °F], elevation 700 m [2,297 ft] with 0.15 mg/m³ of particulate matter. 8 For the PT-FRQ50 in QUIET Mode (35 dB in NORMAL/ECO Mode). Operating noise for the PT-FRQ60 is 31 dB (QUIET Mode) and 36 dB (NORMAL/ECO Mode). Brightness is reduced when operating the projectors in ECO Mode. 9 Requires Multi Monitoring & Control Software Version 3.2 or later. 10 The main firmware version must be 3.00 or higher. The optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 11 The main firmware version must be 3.00 or higher.

Specifications

Model	PT-FRQ60	PT-FRQ50
Projector type	1-Chip DLP™ projector	
DLP™ chip	Panel size	16.5 mm (0.65 in) diagonal (16:9 aspect ratio)
	Display method	DLP™ chip x 1, DLP™ projection system
	Number of pixels ¹	1920 x 1080 pixels (If a signal other than 120 Hz/240 Hz is input, it cannot be displayed at this resolution.)
Light source	Laser diodes	
Light output ²	6,000 lm ³ / 6,000 lm (ANSI) ⁴ / 6,200 lm (Center) ⁵	5,200 lm ³ / 5,200 lm (ANSI) ⁴ / 5,400 lm (Center) ⁵
Time until light output declines to 50 % ⁶	20,000 hours (NORMAL/QUIET)/24,000 hours (ECO)	
Resolution	4K (3840 x 2160 pixels) (With Quad Pixel Drive)	
Contrast ratio ⁷	20,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1]. HDMI™ signal input)	
Screen size (diagonal)	1.02–7.62 m (40–300 in), 16:9 aspect ratio	
Center-to-corner zone ratio ³	90 %	
Lens	2.0x manual zoom (throw ratio: 1.46–2.93:1), manual focus, F 2.0–3.4, f 21.5–43.0 mm	
Lens shift (From the origin point of the lens mounter)	Vertical	+71 %, -48 % (manual)
	Horizontal	+34 %, -27 % (manual)
Keystone correction range	Vertical: ±40 °, Horizontal: ±20 °	
Terminals	HDMI™ 1/2 IN	HDMI™ 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input ⁸), CEC supported
	COMPUTER IN	D-sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr)
	MONITOR OUT	D-sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr)
	AUDIO IN/OUT	M3 stereo mini-jack x 2
	SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
	DIGITAL LINK/LAN	RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBaseT™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p signal input ⁸ , Extron XTP™)
	LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink™ [Class 2], Art-Net)
	USB	USB connector (Type A) x 1 for optional AJ-WM50 Series Wireless Module, for USB memory, and for power supply (DC 5 V, maximum 2 A)
Supported Internet Protocol Versions	IPv4, IPv6 ⁹	
Power supply	Single-phase AC 100–240 V, 50/60 Hz; Single-phase AC 110 V, 60 Hz (Taiwan)	
Power consumption	505 W (5.5–2.4 A) (525 VA)	480 W (5.0–2.2 A) (500 VA)
Operation noise ³	36 dB (NORMAL/ECO) / 31 dB (QUIET)	35 dB (NORMAL/ECO) / 28 dB (QUIET)
Dimensions (W x H x D) ¹⁰	498 x 168 x 492 mm (19 5/8" x 6 5/8" x 19 3/8")	
Weight ¹¹	Approx. 16.4 kg (36.2 lbs)	Approx. 16.1 kg (35.5 lbs)
Operating environment	Operating temperature: 0–45 °C (32–113 °F) ¹² , operating humidity: 10–80 % (no condensation)	
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Projector Network Setup Software, Real-Time Projection Tracking Mapping System	
Control Function via LAN	Crestron Connected™ V2, Crestron XiO Cloud™ ¹³ , Art-Net DMX, AMX® DD, and PLink™ (Class 2)	

1 If a signal other than 120 Hz/240 Hz is input, it cannot be displayed at this resolution. 2 When [PICTURE MODE] is set to [DYNAMIC], [DAYLIGHT VIEW] is set to [OFF], [DYNAMIC CONTRAST] is set to [OFF], [LIGHT OUTPUT] is set to [100%], and [AUTO POWER SAVE] is set to [OFF]. 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 Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. 5 Average light-output value of all shipped products measured at the center of the screen. 6 Around this time, light output will have decreased to approximately 50 % of its original level (PICTURE MODE): [DYNAMIC], [DYNAMIC CONTRAST] set to [2], temperature 30 °C [86 °F], elevation 700 m [2,297 ft] with 0.15 mg/m³ of particulate matter. 7 Estimated time until light output declines to 50 % varies depending on environment. 8 YPbPr 4:2:0 format only for 4K/60p and 4K/50p signals input via DIGITAL LINK. 9 Main firmware version must be 3.00 or higher. Optional AJ-WM50 Series Wireless Module is not compatible with IPv6. 10 With legs fully retracted. 11 Average value. May differ depending on the actual unit. 12 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). In the following operating environments, light output may be reduced to protect the projector: when using FRQ60 at altitudes below 1,400 m (4,593 ft) and ambient temperature is 31 °C (88 °F) or higher; when using FRQ50 at altitudes below 1,400 m (4,593 ft) and ambient temperature is 33 °C (91 °F) or higher; when using FRQ60 at altitudes between 1,400 m (4,593 ft) and 2,700 m (8,858 ft) exclusive and ambient temperature is 27 °C (81 °F) or higher; when using FRQ50 at altitudes between 1,400 m (4,593 ft) and 2,700 m (8,858 ft) exclusive and ambient temperature is 29 °C (84 °F) or higher; and when using FRQ60 or FRQ50 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. When optional AJ-WM50 Series Wireless Module is attached, operating temperature range becomes 0–40 °C (32–104 °F). 13 Main firmware version must be 3.00 or higher.

Optional Accessories

- **Ceiling Mount Bracket**
ET-PKD120H (for high ceilings)
ET-PKD120S (for low ceilings)
Note: PKD120H/PKD120S used in combination with ET-PKD130B (sold separately).
- **Attachment for Ceiling Mount Bracket**
ET-PKD130B

- **ET-FMP50 Series Media Processors**
ET-FMP50 / ET-FMP20
Note: For more information, please visit:
<https://docs.connect.panasonic.com/projector/products/fmp50/>.
- **Real-Time Tracking Projection Mapping System**
ET-SWR10
Note: Conditions apply. Availability may vary by country or region.
Visit <https://docs.connect.panasonic.com/projector/products/swr10/> for more information.

- **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).
- **Wireless Presentation System PressIT**
TY-WPS2 (basic set)
Note: Visit <https://docs.connect.panasonic.com/prodisplays/products/ty-wps2/> for more information.

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