

# Detailed 4K Images at 6,000 lm<sup>1</sup>: PT-FRQ60 Delivers Insightful Experiences from an Easy-to-Handle 1-Chip DLP™ Platform



Black Model



White Model



	[Preliminary Specification] PT-FRQ60
Light Output	6,000 lm <sup>1</sup>
Resolution	4K (3840 x 2160 <sup>2</sup> pixels, 16:9)

## • Smooth, Detailed 4K Images Give Fascinating Insight

Quad Pixel Drive, Panasonic's original 2-axis pixel-quadrupling technology, creates gridless 4K images that retain natural sharpness and detail for clearer insight into complex visuals, while Rich Color Enhancer produces vivid colors as the artist intended. Smooth playback of 240 Hz/1080p content with latency of 8 ms<sup>3</sup> or less invites application at wherever responsive, blur-free motion reproduction is important.

## • Easy-to-Integrate Flexibility for 4K Systems

Versatile 2.0x zoom, V/H Lens-Shift, and Geometric Adjustment with Free Grid support screen correction without a PC. Two CEC-compatible HDMI® inputs enable projector ON/OFF with the source device and easy integration into 4K system infrastructure. Preactivated upgrade kits for Geometry Manager Pro<sup>4</sup> streamline workflow and expand creative production opportunities.

## • Reliable Low-Maintenance Projection

Heat-pipe system cools a hermetically sealed optical block to secure 20,000-hour<sup>5</sup> maintenance-free operation. Multi Monitoring & Control Software<sup>6</sup> with optional Early Warning functions<sup>7</sup> further enhances reliability, while Remote Preview Lite<sup>8</sup> enables input-video checks on a remote PC before projection for an effortless 4K experience.

1 Measurement, measuring conditions, and method of notation are all compliant with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. 2 Quad Pixel Drive [ON]. 3 Display frame rate corresponds to the input signal frame rate. Geometry adjustment features must be disabled. 4 Geometry Manager Pro software for Windows® and preactivated upgrade kits require projector registration. Visit PASS to register your projector and download free software (ET-UK20/ET-CUK10 upgrade kits included). Features only available after May 2022. 5 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/m<sup>3</sup> of particulate matter. Replacement of parts other than the light source may be required in a shorter period. Estimated time until light output declines to 50 % varies depending on environment. 6 Multi Monitoring and Control Software for Windows® is available free from the Panasonic projector website. 7 Early Warning functions are bundled with free Multi Monitoring & Control Software (license required after 90-day trial period). 8 Requires Multi Monitoring & Control Software Version 3.2 or later.

## Specifications (Tentative)

Model	PT-FRQ60	
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 <sup>1</sup>	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 <sup>2,3</sup>	6,000 lm	
Time until light output declines to 50 % <sup>4</sup>	20,000 hours (NORMAL/QUIET)/24,000 hours (ECO)	
Resolution	4K (3840 x 2160 pixels) (With Quad Pixel Drive)	
Contrast ratio <sup>2</sup>	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 <sup>2</sup>	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 °	
Installation	Ceiling/floor, front/rear, free 360-degree installation	
Terminals	HDMI IN 1/2	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input <sup>5</sup> ), 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 PJLink™ [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p signal input <sup>6</sup> )
	LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [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)	
Power supply	AC 100–240 V, 50/60 Hz; AC 110 V, 60 Hz (Taiwan)	
Power consumption	TBD	
Cabinet materials	Molded plastic	
Operation noise <sup>2</sup>	36 dB (NORMAL/ECO) [TBD] / 31 dB (QUIET) [TBD]	
Dimensions (W x H x D) <sup>7</sup>	498 x 168 x 492 mm (19 5/8" x 6 5/8" x 19 3/8") [TBD]	
Weight <sup>8</sup>	Approx. 16.9 kg (37.3 lbs) [TBD]	
Operating environment	Operating temperature: 0–45 °C (32–113 °F), operating humidity: 10–80 % (no condensation)	
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro <sup>9</sup>	

<sup>1</sup> If a signal other than 120 Hz/240 Hz is input, it cannot be displayed at this resolution. <sup>2</sup> Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. <sup>3</sup> When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. <sup>4</sup> 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/m<sup>3</sup> of particulate matter). Estimated time until light output declines to 50 % varies depending on environment. <sup>5</sup> 4K/60p signals are converted to the projector's resolution upon projection. <sup>6</sup> 4K/60p signal input is converted to projector's resolution, supports YPbPr 4:2:0 format only. <sup>7</sup> With legs fully retracted. <sup>8</sup> Average value. May differ depending on the actual unit. <sup>9</sup> Feature only available after May 2022.

## 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).*
- Digital Interface Box**  
 ET-YFB100G  
*Note: Not compatible with 4K signals.*
- Digital LINK Switcher**  
 ET-YFB200G  
*Note: Not compatible with 4K signals.*
- Wireless Presentation System PressIT**  
 TY-WPS1 (basic set)  
*Visit [panasonic.net/cns/prodisplays/pressit](http://panasonic.net/cns/prodisplays/pressit) for more information.*
- Early Warning Software**  
 ET-SWA100 Series  
*Note: Part number suffix may differ depending on the license type.*
- Real-Time Tracking Projection Mapping System**  
 ET-SWR10  
*Note: Conditions apply. Availability may vary by country or region. Visit [panasonic.net/cns/projector/products/swr10](http://panasonic.net/cns/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).*
- Attachment for Ceiling Mount Bracket**  
 ET-PKD130B

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*Note: Pursuant to the Panasonic Group's transition to a holding company system, Panasonic Corporation, Connected Solutions Company will change its name to Panasonic Connect Co., Ltd. in April 2022.*

All information included here is valid as of January 2022.

PT-FRQ60PRE1 Printed in Japan.