Panasonic
BUSINESS

New 5,200 lm*¹ PT-FRQ50 1-Chip DLP™ 4K Projector Delivers Smooth, Detailed Images for an Insightful Visual Experience

Black Models

White Models

DLP TEXAS INSTRUMENTS · SOLID SHINE LASER · 4K PROFESSIONAL · QUAD PIXEL DRIVE · 4K DIGITAL LINK · 360° · 24/7 Operation · Geo. Pro

	PT-FRQ50
Light Output	5,200 lm*¹
Resolution	4K (3840 x 2160 pixels)*²
Aspect Ratio	16:9

• *Exceptionally Smooth and Detailed 4K Image Quality*

Quad Pixel Drive 2-axis pixel-quadrupling technology creates detailed 4K images retaining natural sharpness and clarity, while Rich Color Enhancer produces vivid, accurate colors. High-speed 240 Hz processing creates smooth, grid-less images while supporting up to 240 Hz/1080p frame rates with a minimal latency of 8 ms or less*³.

• *Flexible, Simple to Use, and Easy to Integrate*

Versatile 2.0x zoom supports flexible throw-distances while V/H Lens-Shift expands installation flexibility. Two CEC-compliant HDMI® inputs join DIGITAL LINK and LAN terminals for easy integration into 4K infrastructure. Preactivated upgrade kits for Geometry Manager Pro*⁴ and new Remote Preview Lite*⁵ secure an effortless 4K experience.

• *Highly Reliable Low-Maintenance Projection*

Filterless heat-pipe-based cooling draws heat from the hermetically sealed optical block to support 20,000-hour*⁶ maintenance-free projection. Multi Monitoring & Control Software with optional Early Warning functions*⁷ prevents downtime by alerting the operator before problems occur, streamlining management and enhancing reliability in museums, classrooms, and offices.

Specifications (Tentative)

Model		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	1920 x 1080 pixels
Light source		Laser diodes
Light output *1*2		5,200 lm
Time until light output declines to 50 %*3		20,000 hours (NORMAL/QUIET)/24,000 hours (ECO)
Resolution		4K (3840 x 2160 pixels) (With Quad Pixel Drive)
Contrast ratio*1		20,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [2]. HDMI signal input)
Screen size (diagonal)		1.02–7.62 m (40–300 in), 16:9 aspect ratio
Center-to-corner zone ratio*1		90 %
Lens		2.0x manual zoom (throw ratio: 1.45–2.92:1), manual focus, F 1.7–1.9, f 21.5–43.0 mm
Lens shift (From the origin point of the lens mounter)	Vertical	+71 %, -49 % (manual)
	Horizontal	+34 %, -27 % (manual)
Keystone correction range		TBD
Installation		Ceiling/floor, front/rear, free 360-degree installation
Terminals	HDMI IN	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input), CEC supported
	COMPUTER IN	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)
	COMPUTER OUT	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)
	AUDIO IN 1	Pin jack x 1 (L, R)
	AUDIO IN 2/3	M3 stereo mini-jack x 1 / M3 stereo mini-jack x 1
	AUDIO OUT	M3 stereo mini-jack x 1 (Variable)
	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)
	LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net)
	DC OUT	USB Connector (Type A) x 1 (Output 5 V/2 A)
Power supply		AC 100–240 V, 50/60 Hz
Power consumption		TBD
Cabinet materials		Molded plastic
Operation noise*1		35 dB (NORMAL/ECO) [TBD] / 28 dB (QUIET) [TBD]
Dimensions (W x H x D)*4		498 x 168 x 492 mm (19 ⁵/₈″ x 6 ⁵/₈″ x 19 ³/₈″) [TBD]
Weight*5		Approx. 16.5 kg (36.4 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*6

*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. *2 When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. *3 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). Estimated time until light output declines to 50 % varies depending on environment. *4 With legs fully retracted, excluding lens and protruding parts. *5 Average value. May differ depending on the actual unit. *6 Some features only available from spring 2022.

Optional Accessories

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

- **Attachment for Ceiling Mount Bracket**
  ET-PKD130B
- **DIGITAL LINK Switcher**
  ET-YFB200G*
  * Not compatible with 4K signals.

- **Digital Interface Box**
  ET-YFB100G*
  * Not compatible with 4K signals.
- **Early Warning Software**
  ET-SWA100 Series*
  * Part number suffix may differ depending on the license type.

- **Wireless Presentation System PressIT**
  TY-WPS1 (basic set)
  Visit panasonic.net/cns/prodisplays/pressit for more information.

- **D-sub/S-VIDEO Conversion Cable**
  ET-ADSV

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Projector Global Website – **https://panasonic.net/cns/projector/**
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All information included here is valid as of June 2021.