Panasonic CONNECT



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

PT-FRQ50

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

Key Features

- 1-Chip DLP™ laser projector, 5,200lm brightness
- 4K (3840 x 2160) output resolution, ideal for museum exhibitions, education, and corporate offices
- 2.0x zoom lens and wide V/H Lens Shift (V: +71 %, -48 %, H: +34 %, -27 %)
- Preactivated upgrade kit for Geometry Manager Pro
- Supports 240Hz/1080p high frame rate with minimal input-to-output latency



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https://ap.connect.panasonic.com/sg/en/products/projectors-and-displays/pt-frq50

Projector type	1-Chip DLP™ projector
Display method	DLP™ chip x 1, DLP™ projection system
Display Device -> Panel size	16.5 mm (0.65 in) diagonal (16:9 aspect ratio)
Display Device -> 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 *3	5,200 lm
Light output (ANSI) *4	5,200 lm
Light output (Center) *5	5,400 lm (Center)
Time until light output declines to 50 % -> NORMAL *6	20,000 hours [NORMAL]
Time until light output declines to 50 % -> ECO *6	24,000 hours [ECO]
Time until light output declines to 50 % -> QUIET *6	20,000 hours [QUIET]
Resolution	4K (3840 x 2160 pixels) (With Quad Pixel Drive)
Contrast Ratio (typ.) *3	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 -> Vertical(from center of screen)	+71 %, -48 % (manual)
Lens shift -> Horizontal(from center of screen)	+34 %, -27 % (manual)
Keystone correction range	Vertical: ±40 °, Horizontal: ±20 °
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*6), CEC supported
Terminals -> COMPUTER IN (D-SUB 15pin)	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)
Terminals -> COMPUTER OUT (D-SUB 15pin)	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)
Terminals -> AUDIO IN(M3 Stereo Mini Jack)	M3 stereo mini-jack x 2
Terminals -> AUDIO OUT(M3 Stereo Mini Jack)	M3 stereo mini-jack x 2
Terminals -> SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
Terminals -> DIGITAL LINK IN / 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*7, Extron XTP®)
Terminals -> LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PJLink™ [Class 2], Art-Net)
Terminals -> USB TYPE A	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)
Terminals -> SLOT	IPv4, IPv6*8
Protocol versions	IPv4, IPv6*9
Power supply	AC 100–240 V, 50/60 Hz, AC 110 V, 60 Hz (Taiwan)
Maximum power consumption	480 W (5.0–2.2 A) (500 VA)
On-mode power consumption(Operating mode) -> Normal	[NORMAL] 420 W
On-mode power consumption(Operating mode) -> Eco	[ECO] 330 W
On-mode power consumption(Operating mode) -> Quiet	[QUIET] 330 W
Standby power consumption -> Normal	15 W (Standby Mode) [NORMAL]
Standby power consumption -> ECO	0.5 W (Standby Mode) [ECO]
Cabinet materials	Molded plastic
Filter	No
Operation noise -> Normal *3	35 dB [NORMAL]
Operation noise -> Eco *3	35 dB [ECO]
Operation noise -> Quiet *3	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″)
Dimensions (W x H x D) -> Width (not including protruding parts)	498 mm (19 5/8″)
Dimensions -> Height (including protruding parts)	168 mm (6 5/8″)
Dimensions -> Depth (not including protruding parts)	492 mm (19 3/8″)
Weight *11	Approx. 16.1 kg (35.5 lbs)
Operating environment -> Operating temperature *12	0–45 °C (32–113 °F)
Operating Environment -> Operating humidity (No condensation)	10–80 % (no condensation)
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Projector Network Setup Software
Control function via LAN	Crestron Connected™ V2, Crestron XiO Cloud™*12, Art-Net DMX, AMX® DD, and PJLink™ (Class 2)
Body Colour	PT-FRQ60B-BlackPT-FRQ60BEJ-BlackPT-FRQ60BD8-BlackPT-FRQ60W-WhitePT-FRQ60WEJ-White
NFC	No
Terminals -> SDI IN	–
Terminals -> DVI-D IN	–
Terminals -> DisplayPort™ IN	–
Gross Dimensions (W x H x D in mm)	FRQ60W/FRQ60B/FRQ60BD8: Approx. 684 x 291 x 596 mmFRQ60WEJ/FRQ60BEJ: Approx. 694 x 310 x 606 mm
Gross Weight (Kg)	FRQ60W/FRQ60B: 20.9 kg (46.0 lbs) FRQ60WEJ/FRQ60BEJ: 22.4 kg (49.4 lbs) FRQ60BD8: 20.2 kg (44.5 lbs)
Active 3D	No
SDM	No
EAN	PT-FRQ60W: 5025232923021 PT-FRQ60WEJ: 5025232923014 PT-FRQ60B: 5025232922994 PT-FRQ60BEJ: 5025232923007 PT-FRQ60BD8: 8887549898655
Footnote Description	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). Estimated time until light output declines to 50 % varies depending on environment. 7. 4K/60p signals are converted to the projector's resolution upon projection. 8. 4K/60p signals are converted to projector’s resolution. Supports YPBPR 4:2:0 format only. 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. When using the projector at an altitude lower than 2,700 m (8,858 ft) above sea level, and the operating environment temperature becomes 35 °C (95 °F) or higher, the light output may be reduced to protect the projector. 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.