

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 %, +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/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	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 *1	5,200 lm
Light output (ANSI)	5,200 lm
Light output (Center) *1 *2	5,400 lm (Center)
Time until light output declines to	20,000 hours [NORMAL]
50 % -> NORMAL *3	
Time until light output declines to	24,000 hours [ECO]
50 % -> ECO *3	
Time until light output declines to	20,000 hours [QUIET]
50 % -> QUIET *6	
Resolution	4K (3840 x 2160 pixels) (With Quad Pixel Drive)
Contrast Ratio (typ.) *1	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 *1	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) *4	+71 %, -48 % (manual)
Lens shift -> Horizontal (from center of screen) *4	+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 *1	35 dB [NORMAL]
Operation noise -> Eco *3	35 dB [ECO]
Operation noise -> Quiet *1	28 dB [QUIET]
Dimensions (W x H x D)	498 x 168 x 492 mm (19 5/8" x 6 5/8" x 19 3/8")

Dimensions (W x H x D) -> Width	498 mm (19 5/8")
(not including protruding parts)	
Dimensions -> Height (including protruding parts)	168 mm (6 5/8")
Dimensions -> Depth (not including protruding parts)	492 mm (19 3/8")
Weight *7	Approx. 16.1 kg (35.5 lbs)
Operating environment ->	0-45 °C (32-113 °F)
Operating temperature *8 *9	
Operating Environment ->	10-80 % (no condensation)
Operating humidity (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)
Footnote Description	<p>1. If a signal other than 120 Hz/240 Hz is input, it cannot be displayed at this resolution.</p> <p>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].</p> <p>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.</p> <p>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.</p> <p>5. Average light-output value of all shipped products measured at the center of the screen.</p> <p>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.</p> <p>7. 4K/60p signals are converted to the projector's resolution upon projection.</p> <p>8. 4K/60p signals are converted to projector's resolution. Supports YPBPR 4:2:0 format only.</p> <p>9. Main firmware version must be 3.00 or higher. Optional AJ-WM50 Series Wireless Module is not compatible with IPv6.</p> <p>10. With legs fully retracted.</p> <p>11. Average value. May differ depending on the actual unit.</p> <p>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).</p> <p>13. Main firmware version must be 3.00 or higher.</p>

Body Colour	Black/White
NFC	https://docs.connect.panasonic.com/projector/products/smartpjcontrol/regional.html#regional