Panasonic



## 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

Geo.Pro 4K DIGITAL LINK SOLID SHINE LASER 4K PROFESSIONAL 24/7 Operation

MEViX 360°

Panasonic






# PT-FRQ50

https://ap.pnd.panasonic.com/kr/en/pt-frq50

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|---|---|
| **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,<br>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] |

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| **Body Colour** | PT-FRQ60B-BlackPT-FRQ60BEJ-BlackPT-FRQ60BD8-BlackPT-FRQ60W-WhitePT-FRQ60WEJ-White |
| **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 |
| **NFC** | No |
| **Control function via LAN** | Crestron Connected™ V2, Crestron XiO Cloud™*12, Art-Net DMX, AMX® DD, and PJLink™ (Class 2) |
| **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)<br>FRQ60WEJ/FRQ60BEJ: 22.4 kg (49.4 lbs)<br>FRQ60BD8: 20.2 kg (44.5 lbs) |
| **Active 3D** | No |
| **SDM** | No |
| **EAN** | PT-FRQ60W: 5025232923021<br>PT-FRQ60WEJ: 5025232923014<br>PT-FRQ60B: 5025232922994<br>PT-FRQ60BEJ: 5025232923007<br>PT-FRQ60BD8: 8887549898655 |
| **Footnote Description** | 1. If a signal other than 120 Hz/240 Hz is input, it cannot be displayed at this resolution.<br>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].<br>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.<br>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.<br>5. Average light-output value of all shipped products measured at the center of the screen.<br>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.<br>7. 4K/60p signals are converted to the projector's resolution upon projection.<br>8. 4K/60p signals are converted to projector’s resolution. Supports YPBPR 4:2:0 format only.<br>9. Main firmware version must be 3.00 or higher. Optional AJ-WM50 Series Wireless Module is not compatible with IPv6.<br>10. With legs fully retracted.<br>11. Average value. May differ depending on the actual unit.<br>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).<br>13. Main firmware version must be 3.00 or higher. |