



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





PT-FRQ50

<https://ap.connect.panasonic.com/p/en/products/projectors/pt-frq50>

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| Projector type | 1-Chip DLP™ projector |
| DLP™ Chip Panel Size | 16.5 mm (0.65 in) diagonal (16:9 aspect ratio) |
| DLP™ Chip Display Method | DLP™ chip x 1, DLP™ projection system |
| DLP™ chip 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 |
| Time until light output declines to 50 %*4 | 20,000 hours (NORMAL/QUIET)/24,000 hours (ECO) |
| Resolution | 4K (3840 x 2160 pixels) (With Quad Pixel Drive) |
| Contrast Ratio*2 | 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*2 | 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 the origin point of the lens mounter) | +71 %, -48 % (manual) |
| Lens shift Horizontal(From the origin point of the lens mounter) | +34 %, -27 % (manual) |
| Keystone Correction Range | Vertical: ±40 °, Horizontal: ±20 ° |
| Terminals HDMI IN 1/2 | HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input 5), CEC supported |
| Terminals Computer In | D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR) |
| Terminals Monitor Out | D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR) |
| Terminals Audio In/Out | 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/LAN | RJ-45 x 1 for network and DIGITAL LINK connection (video/network/serial control) (HDBase™ compliant), 100Base-TX (Compatible with PLink™ [Class 2], Art-Net, HDCP 2.3, Deep Color, 4K/60p signal input 6) |
| Terminals LAN | RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink™ [Class 2], Art-Net) |
| Terminals 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 | 480 W |
| Operation Noise*2 | 35 dB (NORMAL/ECO) / 28 dB (QUIET) |
| Dimensions (W x H x D)*7 | 498 x 168 x 492 mm (19 5/8" x 6 5/8" x 19 3/8") |
| Weight*8 | Approx. 16.1 kg (35.5 lbs) |
| Operating Environment | Operating temperature: 0–45 °C (32–113 °F 9), operating humidity: 10–80 % (no condensation) |
| Applicable Software | Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Geometry Manager Pro 10 |

Note

*1 If a signal other than 120 Hz/240 Hz is input, it cannot be displayed at this resolution.
 *2 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. *3 When [PICTURE MODE] is set to [DYNAMIC] and [LIGHT POWER] is set to [NORMAL]. *4 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. *5 4K/60p signals are converted to the projector's resolution upon projection. *6 4K/60p signal input is converted to projector's resolution, supports YPBPR 4:2:0 format only. *7 With legs fully retracted. *8 Average value. May differ depending on the actual unit. *9 When optional AJ-WM50 Series wireless module is attached, operating temperature range becomes 0–40 °C (32–104 °F). *10 Feature only available after May 2022.