



**6,000 lm PT-FRQ60 1-Chip DLP™ 4K Projector Delivers Smooth, Detailed Images for an Insightful Visual Experience**

## PT-FRQ60

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

### Key Features

1-Chip DLP™ laser projector, 6,000lm 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-FRQ60

<https://ap.connect.panasonic.com/vn/en/products/projectors/pt-frq60>

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| <b>Projector type</b>   | 1-Chip DLP™ projector  |
| <b>Display method</b>   | DLP™ chip x 1, DLP™ projection system  |
| <b>Display Device -&gt; Panel size</b>                            | 16.5 mm (0.65 in) diagonal (16:9 aspect ratio)   |
| <b>Display Device -&gt; Number of pixels</b>                      | 1920 x 1080 pixels (If a signal other than 120 Hz/240 Hz is input, it cannot be displayed at this resolution.)   |
| <b>Light source</b>   | Laser diodes   |
| <b>Light output *1 *2 *3</b>                                      | 6,000 lm   |
| <b>Light output (ANSI) *4</b>                                     | 6,000 lm   |
| <b>Light output (Center) *5</b>                                   | 6,200 lm (Center)  |
| <b>Time until light output declines to 50 %</b>                   | 20,000 hours [NORMAL]  |
| <b>-&gt; NORMAL *6</b>  |  |
| <b>Time until light output declines to 50 %</b>                   | 24,000 hours [ECO]   |
| <b>-&gt; ECO *6</b>   |  |
| <b>Time until light output declines to 50 %</b>                   | 20,000 hours [QUIET]   |
| <b>-&gt; QUIET *6</b>   |  |
| <b>Resolution</b>   | 4K (3840 x 2160 pixels) (With Quad Pixel Drive)  |
| <b>Contrast Ratio (typ.) *3</b>                                   | 20,000:1 (Full On/Full Off) (When [PICTURE MODE] is set to [DYNAMIC] and [DYNAMIC CONTRAST] is set to [1]. HDMI signal input)  |
| <b>Screen size (diagonal)</b>                                     | 1.02-7.62 m (40-300 in), 16:9 aspect ratio   |
| <b>Center-to-corner zone ratio *3</b>                             | 90%  |
| <b>Lens</b>   | 2.0x manual zoom (throw ratio: 1.46-2.93:1), manual focus, F 2.0-3.4, f 21.5-43.0 mm   |
| <b>Lens shift -&gt; Vertical (from center of screen)</b>          | +71 %, -48 % (manual)  |
| <b>Lens shift -&gt; Horizontal (from center of screen)</b>        | +34 %, -27 % (manual)  |
| <b>Keystone correction range</b>                                  | Vertical: ±40 °, Horizontal: ±20 °   |
| <b>Installation</b>   | Ceiling/floor, front/rear, free 360-degree installation  |
| <b>Terminals -&gt; HDMI™ IN</b>                                   | HDMI™ 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input*6), CEC supported  |
| <b>Terminals -&gt; COMPUTER IN ( D-SUB 15pin )</b>                | D-sub HD 15-pin (female) x 1 (RGB/Y/P <sub>B</sub> /P <sub>R</sub> /Y/C <sub>B</sub> /C <sub>R</sub> )   |
| <b>Terminals -&gt; COMPUTER OUT ( D-SUB 15pin )</b>               | D-sub HD 15-pin (female) x 1 (RGB/Y/P <sub>B</sub> /P <sub>R</sub> /Y/C <sub>B</sub> /C <sub>R</sub> )   |
| <b>Terminals -&gt; AUDIO IN (M3 Stereo Mini Jack)</b>             | M3 stereo mini-jack x 2  |
| <b>Terminals -&gt; AUDIO OUT (M3 Stereo Mini Jack)</b>            | M3 stereo mini-jack x 2  |
| <b>Terminals -&gt; SERIAL IN</b>                                  | D-sub 9-pin (female) x 1 for external control (RS-232C compliant)  |
| <b>Terminals -&gt; DIGITAL LINK IN / LAN</b>                      | 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*7, Extron XTP®) |
| <b>Terminals -&gt; LAN</b>  | RJ-45 x 1 for network connection, 10Base-T, 100Base-TX (Compatible with PLink™ [Class 2], Art-Net)   |
| <b>Terminals -&gt; USB TYPE A</b>                                 | 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)   |
| <b>Terminals -&gt; SLOT</b>                                       | IPv4, IPv6*8   |
| <b>Protocol versions</b>  | IPv4, IPv6*9   |
| <b>Power supply</b>   | AC 100-240 V, 50/60 Hz, AC 110 V, 60 Hz (Taiwan)   |
| <b>Maximum power consumption *9 *10</b>                           | 505 W (5.5-2.4 A) (525 VA)   |
| <b>On-mode power consumption (Operating mode) -&gt; Normal *9</b> | [NORMAL] 445 W   |
| <b>On-mode power consumption (Operating mode) -&gt; Eco *9</b>    | [ECO] 355 W  |
| <b>On-mode power consumption (Operating mode) -&gt; Quiet *9</b>  | [QUIET] 355 W  |
| <b>Standby power consumption -&gt; Normal</b>                     | 15 W ( Standby Mode ) [ NORMAL ]   |
| <b>Standby power consumption -&gt; ECO</b>                        | 0.5 W ( Standby Mode ) [ ECO ]   |
| <b>Cabinet materials</b>  | Molded plastic   |
| <b>Filter</b>   | No   |
| <b>Operation noise -&gt; Normal *3</b>                            | 36 dB [NORMAL]   |
| <b>Operation noise -&gt; Eco *3</b>                               | 36 dB [ECO]  |
| <b>Operation noise -&gt; Quiet *3</b>                             | 31 dB [QUIET]  |
| <b>Dimensions (W x H x D)</b>                                     | 498 x 168 x 492 mm (19 5/8" x 6 5/8" x 19 3/8")  |

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| <b>Dimensions (W x H x D) -&gt; Width (not including protruding parts)</b> | 498 mm (19 5/8")   |
| <b>Dimensions -&gt; Height (including protruding parts)</b>                | 168 mm (6 5/8")  |
| <b>Dimensions -&gt; Depth (not including protruding parts)</b>             | 492 mm (19 3/8")   |
| <b>Weight <sup>*11</sup></b>   | Approx. 16.4 kg (36.2 lbs)   |
| <b>Operating environment -&gt; Operating temperature <sup>*12</sup></b>    | 0-45 °C (32-113 °F)  |
| <b>Operating Environment -&gt; Operating humidity (No condensation)</b>    | 10-80 % (no condensation)  |
| <b>Applicable software</b>   | Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software, Projector Network Setup Software  |
| <b>Control function via LAN</b>  | Crestron Connected™ v2, Crestron XiO Cloud™*12, Art-Net DMX, AMX® DD, and PJLink™ (Class 2)  |
| <b>Footnote Description</b>  | <ol style="list-style-type: none"> <li>1. If a signal other than 120 Hz/240 Hz is input, it cannot be displayed at this resolution.</li> <li>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].</li> <li>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.</li> <li>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.</li> <li>5. Average light-output value of all shipped products measured at the center of the screen.</li> <li>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.</li> <li>7. 4K/60p signals are converted to the projector's resolution upon projection.</li> <li>8. 4K/60p signals are converted to projector's resolution. Supports YPBPR 4:2:0 format only.</li> <li>9. Main firmware version must be 3.00 or higher. Optional AJ-WM50 Series Wireless Module is not compatible with IPv6.</li> <li>10. With legs fully retracted.</li> <li>11. Average value. May differ depending on the actual unit.</li> <li>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).</li> <li>13. Main firmware version must be 3.00 or higher.</li> </ol> |