



**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>

<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</b>	6,000 lm
<b>Light output (ANSI)</b>	6,000 lm
<b>Light output (Center) *1 *2</b>	6,200 lm (Center)
<b>Time until light output declines to 50 % -&gt; NORMAL *3</b>	20,000 hours [NORMAL]
<b>Time until light output declines to 50 % -&gt; ECO *3</b>	24,000 hours [ECO]
<b>Time until light output declines to 50 % -&gt; QUIET *6</b>	20,000 hours [QUIET]
<b>Resolution</b>	4K (3840 x 2160 pixels) (With Quad Pixel Drive)
<b>Contrast Ratio (typ.) *1</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 *1</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) *4</b>	+71 %, -48 % (manual)
<b>Lens shift -&gt; Horizontal (from center of screen) *4</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</b>	505 W (5.5–2.4 A) (525 VA)
<b>On-mode power consumption (Operating mode) -&gt; Normal</b>	[NORMAL] 445 W
<b>On-mode power consumption (Operating mode) -&gt; Eco</b>	[ECO] 355 W
<b>On-mode power consumption (Operating mode) -&gt; Quiet *8</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 *1</b>	36 dB [NORMAL]
<b>Operation noise -&gt; Eco *3</b>	36 dB [ECO]
<b>Operation noise -&gt; Quiet *1</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")

<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 *7</b>	Approx. 16.4 kg (36.2 lbs)
<b>Operating environment -&gt; Operating temperature *8 *9</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>
<b>Body Colour</b>	Black/White
<b>NFC</b>	<a href="https://docs.connect.panasonic.com/projector/products/smartpjcontrol/regional.html#regional">https://docs.connect.panasonic.com/projector/products/smartpjcontrol/regional.html#regional</a>