



**Easy-to-Manage, Super Simple 1 Chip DLP™ Laser Projector delivers Clear Pictures in Bright Rooms with Flexible Integration in the Classroom or Office**

## PT-FRZ50

DLP™ imaging technology, Quartet Color Harmonizer, Rich Color Enhancer, and digitally modulated Dynamic Contrast 2 optimization coalesce in images of surpassing brightness, color, and clarity regardless of ambient light levels. Flexible 2.0x zoom lens with V/H Lens-Shift joins DIGITAL LINK and CEC-ready HDMI® terminals supporting 4K/60p input signals\*2. Separate LAN terminal and USB-DC outlet further streamline installation. Operation is almost inaudible at 27 dB\*4. Heat-pipe cooling for the laser modules and heat-sinks for airtight DMD block support filterless design for 20,000 hours of maintenance-free projection. Multi-Laser Drive Engine has failover circuit protection while optional Early Warning software

### Key Features

Laser 1-chip DLP, 5,200 lumens, WUXGA

DLP™ imaging technology, Quartet Color Harmonizer, Rich Color Enhancer, and digitally modulated Dynamic Contrast 2 optimization

Maintenance free up to 20,000 hours with dust-resistant optical block and long lasting laser engine

Flexible 2.0x zoom lens (1.46 – 2.94:1) with V/H Lens-Shift

Support uncompressed 4K/60p input signals via HDCP 2.2-compliant HDMI® inputs or DIGITAL LINK terminal

MEVIX





## PT-FRZ50

<https://ap.pnd.panasonic.com/vn/vi/pt-frz50>

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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>                           | 17.0 mm (0.67 in) diagonal (16:10 aspect ratio)   |
| <b>Display Device -&gt; Number of pixels</b>                     | 2,304,000 (1920 x 1200 pixels)  |
| <b>Light source</b>  | Laser diodes  |
| <b>Light output *1 *2</b>  | 5,200 lm  |
| <b>Light output (ANSI) *3</b>                                    | 5,200 lm  |
| <b>Light output (Center) *3</b>                                  | 5,400 lm (Center)   |
| <b>Time until light output declines to 50 % -&gt; NORMAL *4</b>  | 20,000 hours [NORMAL]   |
| <b>Resolution</b>  | 1920 x 1200 pixels  |
| <b>Contrast Ratio (typ.) *2</b>                                  | 20,000:1 (Full On/Full Off, Picture Mode: Dynamic, Dynamic Contrast 1, Operating Mode: Normal)  |
| <b>Screen size (diagonal)</b>                                    | 1.02–7.62 m (40–300 in), 16:10 aspect ratio   |
| <b>Center-to-corner zone ratio *2</b>                            | 90%   |
| <b>Lens</b>  | 2.0x manual zoom (throw ratio: 1.46–2.94:1), manual focus, F 2.0–3.4, f 21.5–43.0 mm  |
| <b>Lens shift -&gt; Vertical(from center of screen)</b>          | +64 %, -44 % (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*4), 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; VIDEO IN</b>                                  | Pin jack x 1 (composite video)  |
| <b>Terminals -&gt; AUDIO IN(M3 Stereo Mini Jack)</b>             | Pin jack x 1 (L, R)   |
| <b>Terminals -&gt; AUDIO IN(Pin Jack L/R)</b>                    | M3 x 1  |
| <b>Terminals -&gt; AUDIO OUT(M3 Stereo Mini Jack)</b>            | M3 x 1 (Variable)   |
| <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 connections (HDBaseT™ compliant), PLink™ (Class 2) compatible, 100Base-TX, Art-Net compatible, HDCP 2.3 compatible, Deep Color compatible, 4K/60p signal input*4 |
| <b>Terminals -&gt; LAN</b>                                       | RJ-45 x 1 for network connection, PLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible  |
| <b>Terminals -&gt; USB TYPE A</b>                                | USB connector (Type A) x 1 (Output 5 V/2 A)   |
| <b>Power supply</b>  | AC 100–240 V, 50/60 Hz  |
| <b>Maximum power consumption *7</b>                              | 465 W (5.0–2.0 A)   |
| <b>On-mode power consumption(Operating mode) -&gt; Normal *7</b> | [NORMAL] 370 W  |
| <b>On-mode power consumption(Operating mode) -&gt; Eco *7</b>    | [ECO] 295 W   |
| <b>On-mode power consumption(Operating mode) -&gt; Quiet *7</b>  | [QUIET] 295 W   |
| <b>Standby power consumption -&gt; Normal</b>                    | 10 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 *2</b>                           | 32 dB [NORMAL]  |
| <b>Operation noise -&gt; Quiet *2</b>                            | 27 dB [QUIET]   |
| <b>Body Colour</b>   | Black/White   |
| <b>Dimensions (W x H x D)</b>                                    | 498 x 168*5 x 492 mm (19 5/8" x 6 5/8"*5 x 19 3/8" )  |
| <b>Dimensions -&gt; Width (including protruding parts)</b>       | 498 mm (19 5/8")  |
| <b>Dimensions -&gt; Height (including protruding parts)</b>      | 168 mm (6 5/8")   |

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| <b>Dimensions -&gt; Depth (including lens)</b>                          | 492 mm (19 3/8")   |
| <b>Weight *8</b>  | Approx. 16.0 kg (35.3 lbs)   |
| <b>Operating environment -&gt; Operating temperature *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  |
| <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>  |
| <b>Footnote Description</b>   | <ol style="list-style-type: none"> <li>1. 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>2. 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>3. 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>4. Average light-output value of all shipped products measured at the center of the screen.</li> <li>5. Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, Normal Mode, Dynamic Contrast 2, temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m<sup>3</sup> of airborne particulate matter. Estimated time until light output declines to 50 % varies depending on environment.</li> <li>6. 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI®.</li> <li>7. With legs at shortest position.</li> <li>8. Average value. May differ depending on the actual unit.</li> </ol> |