



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

## PT-FRZ50

DLP<sup>™</sup> 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

## **Key Features**

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

DLP<sup>™</sup> 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 2.2compliant HDMI® inputs or DIGITAL LINK terminal













Projector type



1-Chip  $DLP^{TM}$  projector



## PT-FRZ50

https://ap.connect.panasonic.com/vn /vi/products/projectors/pt-frz50

Display method	I-Chip DLP <sup>+</sup> projector
	DLP <sup>TM</sup> chip x 1, DLP <sup>TM</sup> projection system
Display Device -> Panel size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)
Display Device -> Number of pixels	2,304,000 (1920 x 1200 pixels)
Light source	Laser diodes
Light output <sup>*1 *2</sup>	5,200 lm
Light output (ANSI) *3	5,200 lm
Light output (Center) *1 *2	5,400 lm (Center)
Time until light output declines to 50 %	
-> NORMAL *4	020,000 Hours [NORWAL]
Resolution	10201200
	1920 x 1200 pixels
Contrast Ratio (typ.) <sup>*2</sup>	20,000:1 (Full On/Full Off, Picture Mode: Dynamic, Dynamic Contrast 1, Operating Mode:
	Normal)
Screen size (diagonal)	1.02–7.62 m (40–300 in), 16:10 aspect ratio
Center-to-corner zone ratio <sup>*2</sup>	90%
Lens	2.0x manual zoom (throw ratio: 1.46–2.94:1), manual focus, F 2.0–3.4, f 21.5–43.0 mm
Lens shift -> Vertical(from center of screen)	+64 %, -44 % (manual)
Lens shift -> Horizontal(from center	+34 %, -27 % (manual)
of screen)	
Keystone correction range	Vertical: ±40 °, Horizontal: ±20 °
Installation	Ceiling/floor, front/rear, free 360-degree installation
Terminals -> HDMI <sup>™</sup> IN	HDMI <sup>TM</sup> 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input*4), CEC
	supported
Terminals -> COMPUTER IN(D-SUB 15pin )	D-sub HD 15-pin (female) x 1 (RGB/YP <sub>B</sub> P <sub>R</sub> /YC <sub>B</sub> C <sub>R</sub> )
•	D-sub HD 15-pin (female) x 1 (RGB/YP <sub>B</sub> P <sub>R</sub> /YC <sub>B</sub> C <sub>R</sub> )
•	Din jack x 1 (composite video)
Terminals -> VIDEO IN	Pin jack x 1 (composite video)
Terminals -> AUDIO IN(M3 Stereo Mini Jack)	Pin jack x 1 (L, R)
Terminals -> AUDIO IN(Pin Jack L/R)	M3 x 1
Terminals -> AUDIO OUT(M3 Stereo Mini Jack)	M3 x 1 (Variable)
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 connections (HDBaseT <sup>TM</sup> compliant), PJLink <sup>TM</sup> (Class 2) compatible, 100Base-TX, Art-Net compatible, HDCP 2.3 compatible, Deep Color compatible, 4K/60p signal input*4
Terminals -> LAN	RJ-45 x 1 for network connection, PJLink <sup>TM</sup> (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible
Terminals -> USB TYPE A	USB connector (Type A) x 1 (Output 5 V/2 A)
Power supply	AC 100–240 V, 50/60 Hz
Maximum power consumption *10	465 W (5.0–2.0 A)
Maximum power consumption	
On-mode power consumption(Operating mode) ->	[NORMAL] 370 W
On-mode power consumption(Operating mode) -> Normal <sup>*10</sup>	
On-mode power consumption(Operating mode) -> Normal <sup>*10</sup> On-mode power	[ECO] 295 W
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On-mode power consumption(Operating mode) -> Normal <sup>*10</sup> On-mode power consumption(Operating mode) -> Eco *10 On-mode power consumption(Operating mode) -> Quiet <sup>*10</sup> Standby power consumption -> Normal	[ECO] 295 W [QUIET] 295 W 10 W (Standby Mode ) [NORMAL]
On-mode power consumption(Operating mode) -> Normal <sup>*10</sup> On-mode power consumption(Operating mode) -> Eco *10 On-mode power consumption(Operating mode) -> Quiet <sup>*10</sup> Standby power consumption -> Normal Standby power consumption -> ECO	[ECO] 295 W [QUIET] 295 W 10 W (Standby Mode ) [ NORMAL ] 0.5 W (Standby Mode ) [ ECO ]
On-mode power consumption(Operating mode) -> Normal <sup>*10</sup> On-mode power consumption(Operating mode) -> Eco *10 On-mode power consumption(Operating mode) -> Quiet <sup>*10</sup> Standby power consumption -> Normal Standby power consumption -> ECO Cabinet materials	[ECO] 295 W [QUIET] 295 W 10 W (Standby Mode ) [ NORMAL ] 0.5 W (Standby Mode ) [ ECO ] Molded plastic
On-mode power consumption(Operating mode) -> Normal <sup>*10</sup> On-mode power consumption(Operating mode) -> Eco *10 On-mode power consumption(Operating mode) -> Quiet <sup>*10</sup> Standby power consumption -> Normal Standby power consumption -> ECO Cabinet materials Filter <sup>*11</sup>	[ECO] 295 W [QUIET] 295 W 10 W (Standby Mode ) [ NORMAL ] 0.5 W (Standby Mode ) [ ECO ] Molded plastic No
On-mode power consumption(Operating mode) -> Normal <sup>*10</sup> On-mode power consumption(Operating mode) -> Eco *10 On-mode power consumption(Operating mode) -> Quiet <sup>*10</sup> Standby power consumption -> Normal Standby power consumption -> ECO Cabinet materials Filter <sup>*11</sup> Operation noise -> Normal <sup>*2</sup>	[ECO] 295 W [QUIET] 295 W 10 W (Standby Mode ) [ NORMAL ] 0.5 W (Standby Mode ) [ ECO ] Molded plastic No 32 dB [NORMAL]
On-mode power consumption(Operating mode) -> Normal *10 On-mode power consumption(Operating mode) -> Eco *10 On-mode power consumption(Operating mode) -> Quiet *10 Standby power consumption -> Normal Standby power consumption -> ECO Cabinet materials Filter *11 Operation noise -> Normal *2 Operation noise -> Quiet *2	[ECO] 295 W [QUIET] 295 W 10 W (Standby Mode ) [ NORMAL ] 0.5 W (Standby Mode ) [ ECO ] Molded plastic No 32 dB [NORMAL] 27 dB [QUIET]
On-mode power consumption(Operating mode) -> Normal *10 On-mode power consumption(Operating mode) -> Eco *10 On-mode power consumption(Operating mode) -> Quiet *10 Standby power consumption -> Normal Standby power consumption -> ECO Cabinet materials Filter *11 Operation noise -> Normal *2 Operation noise -> Quiet *2 Dimensions (W x H x D)	[ECO] 295 W [QUIET] 295 W 10 W (Standby Mode ) [ NORMAL ] 0.5 W (Standby Mode ) [ ECO ] Molded plastic No 32 dB [NORMAL] 27 dB [QUIET] 498 x 168*5 x 492 mm (19 5/8″ x 6 5/8″*5 x 19 3/8″ )
On-mode power consumption(Operating mode) -> Normal *10 On-mode power consumption(Operating mode) -> Eco *10 On-mode power consumption(Operating mode) -> Quiet *10 Standby power consumption -> Normal Standby power consumption -> ECO Cabinet materials Filter *11 Operation noise -> Normal *2 Operation noise -> Quiet *2 Dimensions (W x H x D) Dimensions -> Width (including	[ECO] 295 W [QUIET] 295 W 10 W (Standby Mode ) [ NORMAL ] 0.5 W (Standby Mode ) [ ECO ] Molded plastic No 32 dB [NORMAL] 27 dB [QUIET]
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Operating Environment -> Operating humidity (No condensation)	10–80 % (no condensation)
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software
Footnote Description	<ol> <li>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> </ol>
	<ol> <li>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> </ol>
	<ol> <li>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> </ol>
	<ol><li>Average light-output value of all shipped products measured at the center of th screen.</li></ol>
	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/m3 of airborn particulate matter. Estimated time until light output declines to 50 % varies depending on environment.
	6. 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI®.
	7. With legs at shortest position.
	8. Average value. May differ depending on the actual unit.