

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 reinforces reliability.

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





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

Projector type	1-Chip DLP™ projector
Display method	DLP™ chip x 1, DLP™ 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	5,200 lm
Light output (ANSI)	5,200 lm
Light output (Center)<sup> *1</sup><sup> *2</sup></sup>	5,400 lm (Center)
Time until light output declines to 50 %<sup> *1</sup><sup> *2</sup></sup>	20,000 hours [NORMAL]
-> NORMAL	
Resolution	1920 x 1200 pixels
Contrast Ratio (typ.)	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	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 of screen)	+34 %, -27 % (manual)
Keystone correction range	Vertical: ±40 °, Horizontal: ±20 °
Installation	Ceiling/floor, front/rear, free 360-degree installation
Terminals -> HDMI<sup>™</sup><sup> IN	HDMI™ 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/Y/PB/R/Y/CB/CR)
Terminals -> COMPUTER OUT (D-SUB 15pin)	D-sub HD 15-pin (female) x 1 (RGB/Y/PB/R/Y/CB/CR)
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™ compliant), PJLink™ (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™ (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	465 W (5.0–2.0 A)
On-mode power consumption(Operating mode) -> Normal	[NORMAL] 370 W
On-mode power consumption(Operating mode) -> Eco	[ECO] 295 W
On-mode power consumption(Operating mode) -> Quiet	[QUIET] 295 W
Standby power consumption -> Normal	10 W (Standby Mode) [NORMAL]
Standby power consumption -> ECO	0.5 W (Standby Mode) [ECO]
Cabinet materials	Molded plastic
Filter	No
Operation noise -> Normal	32 dB [NORMAL]
Operation noise -> Quiet	27 dB [QUIET]
Dimensions (W x H x D)	498 x 168*5 x 492 mm (19 5/8" x 6 5/8"*5 x 19 3/8")
Dimensions -> Width (including protruding parts)	498 mm (19 5/8")
Dimensions -> Height (including protruding parts)	168 mm (6 5/8")
Dimensions -> Depth (including lens)	492 mm (19 3/8")
Weight	Approx. 16.0 kg (35.3 lbs)
Operating environment -> Operating temperature	0–45 °C (32–113 °F)

Operating Environment -> Operating humidity (No condensation)	10-80 % (no condensation)
Applicable software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software
Footnote Description	<p>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].</p> <p>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.</p> <p>Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped.</p> <p>Average light-output value of all shipped products measured at the center of the screen.</p> <p>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 airborne particulate matter. Estimated time until light output declines to 50 % varies depending on environment.</p> <p>4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI®.</p> <p>With legs at shortest position.</p> <p>Average value. May differ depending on the actual unit.</p>