## Panasonic CONNECT



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-FRZ60

DLP™ imaging technology, Quartet Colour Harmonizer, Rich Colour Enhancer, and digitally modulated Dynamic Contrast 2 optimization coalesce in images of surpassing brightness, colour, 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, 6,000 lumens, WUXGA

DLP™ imaging technology, Quartet Colour Harmonizer, Rich Colour 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



















## PT-FRZ60

https://ap.connect.panasonic.com/sg/en/products/projectors/pt-frz60

Projector type	1-Chip DLP™ projector
DLP™ Chip   Panel Size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)
DLP™ Chip   Display Method	DLP™ chip x 1, DLP™ projection system
DLP™ chip   Number of Pixels	2,304,000 (1920 x 1200 pixels)
Light Source	Laser diodes
Light output	6,000 lm*1/6,200 lm (Center)*2
Time until light output declines to 50	20,000 hours (NORMAL)
%*3	
Resolution	1920 x 1200 pixels
Contrast Ratio*1	20,000:1 (Full On/Full Off, Dynamic Contrast Mode: ON)
Screen size [diagonal]	1.02–7.62 m (40–300 in), 16:10 aspect ratio
Center-to-corner zone ratio*1	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 the origin	+64 %, -44 % (manual)
point of the lens mounter)	- · · · · · · · · · · · · · · · · · · ·
Lens shift   Horizontal(From the orig	in+34 %27 % (manual)
point of the lens mounter)	
Keystone Correction Range	Vertical: ±40 °, Horizontal: ±20 °. When [VERTICAL KEYSTONE] and [HORIZONTAL
3.	KEYSTONE] are used simultaneously,correction cannot be made exceeding a total of ±60 °
Installation	Ceiling/floor, front/rear, free 360-degree installation
Terminals   HDMI In	HDMI 19-pin x 2 (Compatible with HDCP 2.2, Deep Color, 4K/60p signal input*4 ), CEC
,	supported
Terminals   Computer 1 In	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR/YC)
Terminals   Computer 2 In/1 Out	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR/YC)
Terminals   Video In	Pin jack x 1 (composite video)
Terminals   Audio In 1	Pin jack x 2 (L, R)
Terminals   Audio In 2/3	M3 x 1/M3 x 1
Terminals   Audio Out	M3 x 1 (Variable)
Terminals   Serial In	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)
Terminals   DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connections (HDBaseT™ compliant), PJLink™ (Class
Terminus   DIGITAL LIVE	2) compatible, 100Base-TX, Art-Net compatible, HDCP 2.2 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	USB connector (Type A) x 1 (Output 5 V/2 A)
Power Supply	AC 100-240 V, 50/60 Hz
Power Consumption	TBD
Cabinet Materials	Molded plastic
Operation noise*1	30 dB (Quiet Mode) (TBD), 35 dB (Normal Mode) (TBD)
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" )
Weight*6	Approx. 16.6 kg (36.6 lbs) (TBD)
Operating Environment	Operating temperature: 0-40 °C (32–104 °F), operating humidity: 10–80 % (no
,,,,,,	condensation) (TBD)
Applicable Software	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software
Note	*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2012 international standards. Value is average of all products when shipped. *2
	Average light-output value of all shipped products measured at center of screen in
	NORMAL Mode. *3 Aroundthis time, light output will have decreased by approximately 50
	%. IEC62087: 2008 Broadcast contents, NORMAL Mode, Dynamic Contrast [ON], under
	conditions with 35 °C (95 °F), 700 m (2,297 ft) above sea level, and 0.15 mg/m3 of
	particulate matter. Estimated time until light outputdeclines to 50 % varies depending on
	environment. *4 4K signals are converted to the projector's resolution (1920 x 1200
	pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI®. *5 With legs at
	shortest position, *6 Average value, May differ depending on the actual unit

shortest position. \*6 Average value. May differ depending on the actual unit.