Panasonic
BUSINESS

PT-**FRZ60** Series
1-Chip DLP™ Projectors

PT-**FRZ60**
PT-**FRZ50**
PT-**FRZ55**

Color-rich DLP™ Projectors Offer Dynamic Pictures with Flexible Integration into Classroom, Office, or Exhibition

■ **Main Features**

01 | Dynamic Color for Bright Rooms

DLP™ imaging, Quartet Color Harmonizer, Rich Color Enhancer, and new digitally modulated Dynamic Contrast 2 setting produce images of surpassing brightness, color, and clarity.

02 | Quiet Projectors are Easy to Install

Quiet 27 dB*1 projection, 4K/60p signal input*2 via HDMI® and DIGITAL LINK, separate LAN terminal, and USB-DC outlet are supported. Models with flexible 2.0x zoom lens or short-throw lens*3 for rear projection are available.

03 | Proven SOLID SHINE Laser Reliability

Filterless cooling and airtight DMD block enable 20,000 hours*4 of maintenance-free projection. Multi-Laser Drive Engine*5 has failover protection while optional Early Warning software*6 underscores reliability.

PT-FRZ60/FRZ50
Black model also available.

PT-FRZ55

PT-FRZ60 Series

	PT-FRZ60	PT-FRZ50	PT-FRZ55
Light Output	6,000 lm*7/ 6,200 lm (Center)*8	5,200 lm*7/ 5,400 lm (Center)*8	5,000 lm*7/ 5,200 lm (Center)*8
Resolution	WUXGA		
Lens	2.0x Zoom Lens		Fixed Short-throw Lens

*1 For the PT-FRZ50/FRZ55 in Quiet Mode (32 dB in Normal Mode). Operating noise for the PT-FRZ60 is 30 dB in Quiet Mode or 35 dB in Normal Mode. *2 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. *3 PT-FRZ55 only. *4 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, Normal Mode, Dynamic Contrast 1, temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Panasonic recommends cleaning or checkup at point of purchase after about 20,000 hours. Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. Estimated maintenance time varies depending on environment. *5 Rate of brightness decrease varies depending on projector model. *6 Early Warning functions (ET-SWA100 Series) are included with free Multi Monitoring & Control Software Ver. 3.0 or later and require a license key and activation after a 90-day trial period expires. *7 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. *8 Average light-output value of all shipped products measured at center of screen in Normal Mode.

Optimized for Color and Contrast

Quartet Color Harmonizer is an original color-wheel technology with optimized optical design. It modulates light-output to color requirements, achieving pure white for beautifully accurate color reproduction without sacrificing brightness. Rich Color Enhancer adjusts color-wheel timing for deeper color saturation. With uniformity assured by DLP™ imaging and Dynamic Contrast 2, single- or multi-screen projections immerse you completely.

Smooth System Integration

Compatibility with 4K/60p input signals*1 enables easy integration into a 4K display network, while two CEC-ready HDMI® inputs and USB-DC outlet connect streaming devices*2 or PressIT*3, Panasonic's new one-touch Wireless Presentation System. Separate LAN terminal for IP control frees DIGITAL LINK for video.

Flexible Install, Stress-free Setup

PT-FRZ60/FRZ50 features a 2.0x zoom lens for flexible projector location, making installation easy. PT-FRZ55 has a powered 0.8:1 short-throw lens for shadow-free rear-projection in control rooms or at exhibitions. All models include V/H Lens-Shift, V/H Keystone Correction, and Curved-Screen Correction, and share the same lenses and mounts as their previous corresponding models for stress-free renewal.

Silent, Reliable Projection

Multi-Laser Drive Engine*4 modules have Failover Circuitry*5 to prevent dimming in the event of diode failure. Airtight DMD block and filterless cooling enable 20,000 hours*6 maintenance-free projection with quiet 27 dB*7 operation. Reliability is reinforced with optional Early Warning software*8.

■ Other Features

- Daylight View Basic
- Detail Clarity Processor 3
- Quick Start and Quick Off
- Free 360 ° body rotation
- Auto Image Rotation
- Edge Blending and Color Matching
- Multi Monitoring & Control Software with optional Early Warning functions*8
- ECO Management System

*1 Uncompressed 4K/60p signal input supported via DIGITAL LINK and HDMI. 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. *2 Compatibility with third-party devices is not guaranteed. Devices sold separately. *3 Optional WP Series Wireless Presentation System on sale from September 2020 (availability may vary by country or region). Visit the Panasonic projector website for more information. *4 Rate of brightness decrease varies depending on projector model. *5 Specifications vary depending on model. *6 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, Normal Mode, Dynamic Contrast 1, temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m³ of airborne particulate matter. Panasonic recommends cleaning or checkup at point of purchase after about 20,000 hours. Light-source lifetime may be reduced depending on environmental conditions. Replacement of parts other than the light source may be required in a shorter period. Estimated maintenance time varies depending on environment. *7 For the PT-FRZ50/FRZ55 in Quiet Mode (32 dB in Normal Mode). Operating noise for the PT-FRZ60 is 30 dB in Quiet Mode or 35 dB in Normal Mode. *8 Early Warning functions (ET-SWA100 Series) are included with free Multi Monitoring & Control Software Ver. 3.0 or later and require a license key and activation after a 90-day trial period expires. Visit the Panasonic projector global website for more information.

Specifications

Model		PT-FRZ60	PT-FRZ50	PT-FRZ55
Projector type		1-Chip DLP™ projector		
DLP™ chip	Panel size	17.0 mm (0.67 in) diagonal (16:10 aspect ratio)		
	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 (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])	5,200 lm*1/5,400 lm (Center)*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])	5,000 lm*1/5,200 lm (Center)*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])
Time until light output declines to 50 %*3		20,000 hours (Normal)		
Resolution		1920 x 1200 pixels		
Contrast ratio*1		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*1		90 %		85 %
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		Fixed (throw ratio: 0.8:1), powered focus, F 1.75, f 11.9 mm
Lens shift (From the origin point of the lens mounter)	Vertical	+64 %, -44 % (manual)		±4.4 % (powered)
	Horizontal	+34 %, -27 % (manual)		±2.1 % (powered)
Keystone correction range		Vertical: ±40 °, Horizontal: ±20 °		Vertical: ±25 °, Horizontal: ±20 °
Terminals	HDMI 1 IN/HDMI 2 IN	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input*4), CEC supported		
	COMPUTER 1 IN	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)		
	COMPUTER 2 IN/1 OUT	D-sub HD 15-pin (female) x 1 (RGB/YPBPR/YCBCR)		
	VIDEO IN	Pin jack x 1 (composite video)		
	AUDIO IN 1	Pin jack x 1 (L, R)		
	AUDIO IN 2/3	M3 x 1/M3 x 1		
	AUDIO OUT	M3 x 1 (Variable)		
	SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)		
	DIGITAL LINK	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		
	LAN	RJ-45 x 1 for network connection, PJLink™ (Class 2) compatible, 10Base-T/100Base-TX, Art-Net compatible		
	USB	USB connector (Type A) x 1 (Output 5 V/2 A)		
Power supply		AC 100–240 V, 50/60 Hz		
Power consumption		540 W	465 W	
Operation noise*1		30 dB (Quiet Mode), 35 dB (Normal Mode)	27 dB (Quiet Mode), 32 dB (Normal Mode)	
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″)		498 x 168*5 x 481 mm (19 5/8″ x 6 5/8″*5 x 18 15/16″)
Weight*6		Approx. 16.1 kg (35.5 lbs)	Approx. 16.0 kg (35.3 lbs)	Approx. 16.4 kg (36.1 lbs)
Operating environment		Operating temperature: 0–45 °C (32–113 °F), operating humidity: 10–80 % (no condensation)		
Applicable software		Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software		

*1 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 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 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, Normal Mode, Dynamic Contrast 1, 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. *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.

Optional Accessories

- **Ceiling Mount Bracket**
  ET-PKD120H* (for high ceiling)
  ET-PKD120S* (for low ceiling)
  * ET-PKD120H/PKD120S used in combination with ET-PKD130B (sold separately).

- **Projector Mount Bracket**
  ET-PKD130B

- **DIGITAL LINK Switcher**
  ET-YFB200G
  Note: ET-YFB200G is not compatible with 4K signals.

- **Digital Interface Box**
  ET-YFB100G
  Note: ET-YFB100G is not compatible with 4K signals.

- **Early Warning Software**
  ET-SWA100/105
  Note: Part number suffix may differ depending on the license type. Multi Monitoring & Control Software Ver. 3.0 or later is required. Please download from the following website: www.panasonic.net/cns/projector/download/application/

- **D-sub/S-VIDEO Conversion Cable**
  ET-ADSV

- **Wireless Presentation System (PressIT)**
  TY-WPS1 (basic set)

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For more information about Panasonic projectors, please visit:
Projector Global Website – **panasonic.net/cns/projector**
Facebook – **www.facebook.com/panasonicprojectoranddisplay**
YouTube – **www.youtube.com/user/PanasonicProjector**

All information included here is valid as of September 2020.