



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<sup>\*1</sup> projection, 4K/60p signal-input<sup>\*2</sup> 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<sup>\*3</sup> for rear projection are available.

## 03 | Proven SOLID SHINE Laser Reliability

Filterless cooling and airtight DMD block enable 20,000 hours<sup>\*4</sup> of maintenance-free projection. Multi-Laser Drive Engine has failover protection while optional Early Warning software<sup>\*5</sup> 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 <sup>*6</sup> / 6,200 lm (Center) <sup>*7</sup>	5,200 lm <sup>*6</sup> / 5,400 lm (Center) <sup>*7</sup>	5,000 lm <sup>*6</sup> / 5,200 lm (Center) <sup>*7</sup>
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 2, temperature 30 °C (86 °F), elevation 700 m (2,297 ft) with 0.15 mg/m<sup>3</sup> 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 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. \*6 Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. \*7 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<sup>\*1</sup> enables easy integration into a 4K display network, while two CEC-ready HDMI® inputs and USB-DC outlet connect streaming devices<sup>\*2</sup> or PressIT<sup>3</sup>, 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 feature 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 model for stress-free renewal.

## Silent, Reliable Projection

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

## 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<sup>\*7</sup>
- ECO Management System

<sup>\*1</sup> 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. <sup>\*2</sup> Compatibility with third-party devices is not guaranteed. Devices sold separately. <sup>\*3</sup> 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. <sup>\*4</sup> Specifications vary depending on model. <sup>\*5</sup> 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. 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. <sup>\*6</sup> 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. <sup>\*7</sup> 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 <sup>*5</sup> /6,200 lm (Center) <sup>*2</sup>	5,200 lm <sup>*5</sup> /5,400 lm (Center) <sup>*2</sup>	5,000 lm <sup>*5</sup> /5,200 lm (Center) <sup>*2</sup>
Time until light output declines to 50 % <sup>*3</sup>	20,000 hours (Normal)		
Resolution	1920 x 1200 pixels		
Contrast ratio <sup>*1</sup>	20,000:1 (Full On/Full Off, Picture Mode: Dynamic, Dynamic Contrast 2, Operating Mode: Normal)		
Screen size (diagonal)	1.02–7.62 m (40–300 in), 16:10 aspect ratio		
Center-to-corner zone ratio <sup>*1</sup>	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)	
	Horizontal	+34 %, -27 % (manual)	
Keystone correction range	Vertical: ±40 °, Horizontal: ±20 °		Vertical: ±25 °, Horizontal: ±20 °
Terminals	HDMI IN	HDMI 19-pin x 2 (Compatible with HDCP 2.3, Deep Color, 4K/60p signal input <sup>*4</sup> ), CEC supported	
	COMPUTER 1 IN	D-sub HD 15-pin (female) x 1 (RGB/Y/PbPr/YCbCr)	
	COMPUTER 2 IN/1 OUT	D-sub HD 15-pin (female) x 1 (RGB/Y/PbPr/YCbCr)	
	VIDEO IN	Pin jack x 1 (composite video)	
	AUDIO IN 1	Pin jack x 2 (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 <sup>*4</sup>	
	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 <sup>*1</sup>	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 <sup>*5</sup> x 492 mm (19 5/8" x 6 5/8" x 19 3/8")		498 x 168 <sup>*5</sup> x 481 mm (19 5/8" x 6 5/8" x 18 15/16")
Weight <sup>*6</sup>	Approx. 16.1 kg (35.5 lbs)		Approx. 16.0 kg (35.3 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		

<sup>\*1</sup> Measurement, measuring conditions, and method of notation all comply with ISO/IEC 21118: 2020 international standards. Value is average of all products when shipped. <sup>\*2</sup> Average light-output value of all shipped products measured at center of screen in Normal Mode. <sup>\*3</sup> 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. <sup>\*4</sup> 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI. <sup>\*5</sup> With legs at shortest position. <sup>\*6</sup> Average value. May differ depending on the actual unit.

## Optional Accessories

### • Ceiling Mount Bracket

ET-PKD120H\* (for high ceiling)  
ET-PKD120S\* (for low ceiling)  
\* The ET-PKD120H/PKD120S are used in combination with the 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/](http://www.panasonic.net/cns/projector/download/application/)

### • D-sub/S-VIDEO Conversion Cable

ET-ADSV

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Projector Global Website – [panasonic.net/cns/projector](http://panasonic.net/cns/projector)  
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YouTube – [www.youtube.com/user/PanasonicProjector](https://www.youtube.com/user/PanasonicProjector)

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