

## PT-FRZ60 Series

1-Chip DLP™ Projectors

AVAILABLE FROM SEPTEMBER 2020

### Easy-to-Manage 1-Chip DLP™ Laser Projectors Offer Clear Pictures in Bright Rooms with Flexible Integration in the Classroom or Office



PT-FRZ60/FRZ50  
Black model also available.



PT-FRZ55



PT-FRZ60 Series			
	PT-FRZ60	PT-FRZ50	PT-FRZ55
Light Output	6,000 lm*1/6,200 lm (Center)*2	5,200 lm*1/5,400 lm (Center)*2	5,000 lm*1/5,200 lm (Center)*2
Resolution	WUXGA		

#### • **Dynamic Images in Bright Rooms with Silent Operation**

No more dark rooms and distracting projector noise. PT-FRZ60 Series creates dynamic images that resist washout under lights while operating noise is reduced to an inaudible 27 dB<sup>3</sup> in Quiet Mode. Quartet Color Harmonizer optimizes wheel and filter to boost color vibrancy.

#### • **Compact, Lightweight Projectors are Easy to Install**

Projectors feature a 2.0x optical zoom<sup>4</sup> to increase throw-distance range for flexible installation, while 4K signal input<sup>5</sup> via CEC-compatible HDMI<sup>®</sup> and DIGITAL LINK smooths integration with the latest infrastructure. Separate LAN and 5 V/2 A USB outlet support wireless projection.

#### • **Proven SOLID SHINE Laser Reliability**

The PT-FRZ60 Series features a high-efficiency filterless cooling system, hermetically sealed DMD block, and dust-resistant shielded laser drive to assure 20,000 hours<sup>6</sup> of stable maintenance-free projection. A linear brightness ramp and strong color retention preserve image quality for longer.

\*1 Measurement, measuring conditions (TBD), 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 FRZ50/FRZ55 only (TBD). FRZ60 operates at 30 dB in Quiet Mode (TBD). \*4 Excluding the PT-FRZ55. \*5 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI<sup>®</sup>. \*6 Around this time, light output will have decreased by approximately 50 %. IEC62087: 2008 Broadcast Contents, NORMAL Mode, Dynamic Contrast [ON], temperature 35 °C (95 °F), elevation 700 m (2,297 ft) with 0.15 mg/m<sup>3</sup> of airborne particulate matter. Estimated time until brightness decreases to 50 % will vary depending on environment and usage conditions. Parts other than the light source may require replacement before 20,000 hours, and checkup is recommended around this time.

## Specifications (Tentative)

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)	
	Display method	DLP™ chip x 1, DLP™ projection system	
	Number of pixels	2,304,000 (1920 x 1200 pixels)	
Light source	Laser diodes		
Light output	6,000 lm*/6,200 lm (Center)*2	5,200 lm*/5,400 lm (Center)*2	5,000 lm*/5,200 lm (Center)*2
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, 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		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 °. When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of ±60 °.		Vertical: ±25 °, Horizontal: ±20 °. When [VERTICAL KEYSTONE] and [HORIZONTAL KEYSTONE] are used simultaneously, correction cannot be made exceeding a total of ±45 °.
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	
	COMPUTER 1 IN	D-sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr/YC)	
	COMPUTER 2 IN/1 OUT	D-sub HD 15-pin (female) x 1 (RGB/YPbPr/YCbCr/YC)	
	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 2.2 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	TBD		
Cabinet materials	Molded plastic		
Operation noise*1	30 dB (Quiet Mode) (TBD), 35 dB (Normal Mode) (TBD)	27 dB (Quiet Mode) (TBD), 32 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")		498 x 168*5 x 481 mm (19 5/8" x 6 5/8"*5 x 18 15/16")
Weight*6	Approx. 16.6 kg (36.6 lbs) (TBD)		Approx. 16.3 kg (35.9 lbs) (TBD)
Operating environment	Operating temperature: 0–40 °C (32–104 °F), operating humidity: 10–80 % (no condensation) (TBD)		Operating temperature: 0–45 °C (32–113 °F), operating humidity: 10–80 % (no condensation) (TBD)
	Applicable software		
	Logo Transfer Software, Multi Monitoring & Control Software, Early Warning Software		

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## 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. 2.0 or later is required.  
Please download from the following website:  
[www.panasonic.net/crs/projector/download/application/](http://www.panasonic.net/crs/projector/download/application/)*
- **D-sub/S-VIDEO Conversion Cable**  
ET-ADSV

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