Panasonic

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

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https://ap.pnd.panasonic.com/th/en/pt-frz60

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 *1 *2 *3	6,000 lm
Light output (ANSI) *4	6,000 lm
Light output (Center) *5	6,200 lm (Center)
Time until light output declines to 50 % -> NORMAL *6	20,000 hours [NORMAL]
Resolution	1920 x 1200 pixels
Contrast Ratio (typ.) *3	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 *3	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™ 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/YPBPR/YCBCR)
Terminals -> COMPUTER OUT（D-SUB 15pin）	D-sub HD 15-pin (female) x 1 (RGB/YP_BP_R/YC_BC_R)
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/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 *7	540 W (5.8–2.3 A)
On-mode power consumption(Operating mode) -> Normal *8	[NORMAL] 490 W
On-mode power consumption(Operating mode) -> Eco *8	[ECO] 385 W
On-mode power consumption(Operating mode) -> Quiet *8	[QUIET] 385 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 *3	35 dB [NORMAL]
Operation noise -> Quiet *3	30 dB [QUIET]
Body Colour	PT-FRZ50B-BlackPT-FRZ50BEJ-BlackPT-FRZ50BD8-BlackPT-FRZ50W-WhitePT-FRZ50WEJ-White
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. 16.1 kg (35.5 lbs)

Operating environment -> Operating temperature *11	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
NFC	No
Terminals -> SDI IN	—
Terminals -> DVI-D IN	—
Terminals -> DisplayPort™ IN	—
Operation noise -> Eco *3	—
Gross Dimensions (W x H x D in mm)	FRZ50W/FRZ50B/FRZ50BD8: Approx. 684 x 291 x 596 mm FRZ50WEJ/FRZ50BEJ: Approx. 694 x 310 x 606 mm
Gross Weight (Kg)	FRZ50W/FRZ50B: 20.7 kg (45.7 lbs) FRZ50WEJ/FRZ50BEJ: 22.2 kg (49.0 lbs) FRZ50BD8: 20.4 kg (45.0 lbs)
Active 3D	No
SDM	No
EAN	PT-FRZ50W: 5025232941407 PT-FRZ50WEJ: 5025232941414 PT-FRZ50B: 5025232941421 PT-FRZ50BEJ: 5025232941438 PT-FRZ50BD8: 8887549898648
Footnote Description	1. 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]. 2. 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. 3. Measurement, measuring conditions, and method of notation all comply with American National Standards Institute standards. Value is the average of all products when shipped. 4. Average light-output value of all shipped products measured at the center of the screen. 5. 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. 6. 4K signals are converted to the projector's resolution (1920 x 1200 pixels) upon projection. Supported terminals: DIGITAL LINK/HDMI®. 7. With legs at shortest position. 8. Average value. May differ depending on the actual unit.