Panasonic
BUSINESS

PT-**MZ670** Series
LCD Projectors

PT-**MZ670** / PT-**MZ670**L
PT-**MZ570** / PT-**MZ570**L
PT-**MW630** / PT-**MW630**L
PT-**MW530** / PT-**MW530**L

BRILLIANT. QUIET. EFFICIENT. SMOOTH.
YOU NAILED IT!

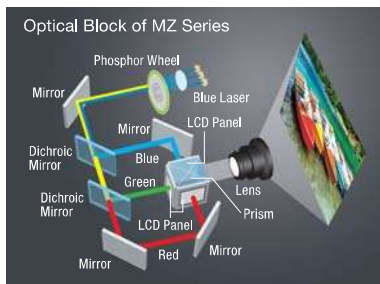SOLID SHINE LASER

Worldwide Olympic Partner

Worldwide Paralympic Partner

Brilliant Picture Quality

Vivid Images in Bright Environments

SOLID SHINE Laser phosphor drive with advanced 3LCD optical engine projects bright, vivid, and detailed pictures even in rooms with high levels of artificial light. Text is reproduced clearly and legibly, while graphics and video retain excellent color saturation and high contrast.

Optical Block of MZ Series

Phosphor Wheel
Mirror
Blue Laser
Mirror
LCD Panel
Dichroic Mirror
Blue
Green
Lens
Dichroic Mirror
Prism
LCD Panel
Red
Mirror
Mirror

Dynamic Contrast of 3,000,000:1*2 for Natural Image Expression

Precision laser power output modulation achieves high contrast with low power consumption, enabling superior expression of light and dark scenes for a natural, comfortable viewing experience. The PT-MZ670 Series features high 3,000,000:1*2 dynamic contrast.

Daylight View Basic Optimizes Pictures in Bright Spaces

Daylight View Basic delivers clear and sharp images by enhancing detail, particularly in dark areas of the image, that are difficult to see in brightly lit rooms. A sensor measures ambient light while Daylight View Basic adjusts halftone color and brightness to suit surrounding illumination.

Conventional Projector   Daylight View Basic

Detail Clarity Processor 4 Provides Pin-Sharp Insight

Proprietary circuitry analyzes individual video frames to clarify areas of each image containing fine details. Algorithms pull information from four frequency bands of the signal, sharpening outlines, correcting contours, and reducing ringing noise for a vastly superior picture.

Conventional projector

Detail Clarity Processor 4
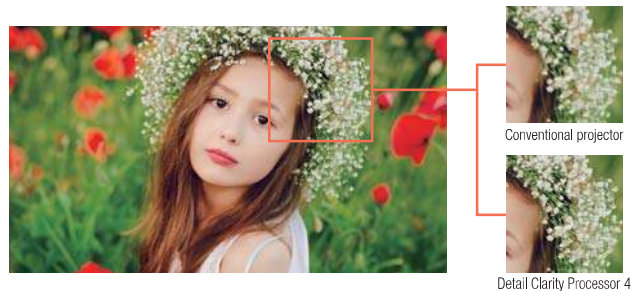
Color Adjustment Function

Color Adjustment makes it easy to correct slight variations in the color reproduction range of individual units set up for multiple projection, particularly those in side-by-side configuration. Correction is performed on 3 or 7 colors.

Unit 1   Unit 2

Variation in Color Level

After Color Adjustment
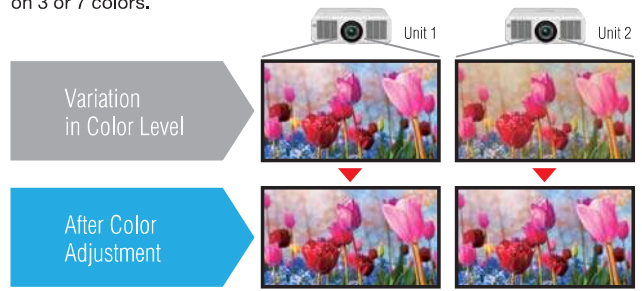
Note: Graphic is simulated.

Low Maintenance with ECO Functions

No Light-Source Replacement for 20,000 Hours*3

Laser light-source lifespan is extended to 20,000 hours*3, cutting running costs, labor, and wastage in comparison to lamp-based projectors. By reducing use of consumable parts, organizations can also streamline spare-part inventories.

ECO Management System with Intelligent Light-Source Control

Energy efficiency is achieved by automatically reducing light-source output power in dim rooms, and by transitioning to a low-power mode when no signal is detected.

Bright Room   Dark Room

Dust-Resistant Cabinet with One-Way Airflow Design

Dust-resistant cabinet has an unobstructed one-way airflow with improved hermetic sealing around the filter module and air-intake duct. Better lens-assembly hermeticity reduces dust intrusion and extends picture brightness.

Reusable Eco Filter Replacement Extended to 20,000 Hours*4

Eco Filter includes a Micro Cut Filter that collects minute dust particles with an electrostatic effect. Together with the dust-resistant projector cabinet, Eco Filter enables long-term use in dusty conditions with less downtime. Replacement is at about 20,000 hours*4, and the filter can be washed and reused*5.
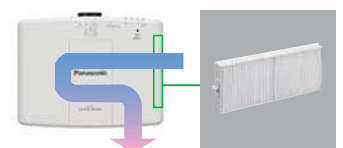
*2 With image mode set to "Dynamic" and Dynamic Contrast set to 1 or 2. *3 Around this time, original light source brightness will have decreased by approximately 50 %. IEC62087: 2008 Broadcast contents, Dynamic contrast [2], Under conditions of 0.15 mg/m³ of particulate matter. Estimated maintenance time varies depending on environment. *4 Under conditions of 0.15 mg/m³ of particulate matter. Estimated maintenance time varies depending on environment. *5 Please follow the procedures listed in the operating instructions when washing filter with water. Replacement is recommended after filter has been washed and reused twice, or if filter is not sufficiently clean after washing.

Delivers on Your Demands

SOLID SHINE Laser blends premium 3LCD imaging with people-focused features in a mid-class projector lineup designed to exceed the highest expectations. The PT-MZ670 Series delivers in key areas for high brightness and excellent efficiency in classrooms and meeting spaces.

26 dB*1

Whisper-quiet 26 dB*1 running limits distractions

High brightness, high contrast, and spectacular colors

Optional wireless projection module, apps, and software

Low-maintenance laser system with reusable Eco Filter

*1 In Quiet Mode, 32 dB in Normal and Eco Mode.

Combining 3LCD imaging with world-class SOLID SHINE Laser for the first time, the Panasonic PT-MZ670 Series provides an ideal blend of high-value features for a more versatile application. Presenters get the best in crisp and punchy picture quality; students are undistracted by noise; and administrators reduce costs with set-and-forget low-maintenance design.
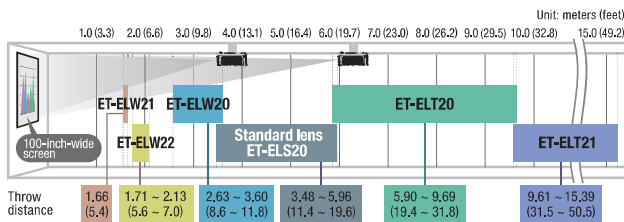
Your Media in Harmony.

LCD Projector

PT-**MZ670** Series

SOLID SHINE LASER DIGITAL LINK™ SINGLE CABLE SOLUTION 360° 24/7 Operation WIRELESS (Option) LinkRay™

	PT-MZ670 PT-MZ670L	PT-MZ570 PT-MZ570L	PT-MW630 PT-MW630L	PT-MW530 PT-MW530L
Resolution	WUXGA	WUXGA	WXGA	WXGA
Brightness	6,500 lm	5,500 lm	6,500 lm	5,500 lm
Contrast	3,000,000:1*2			

Note: PT-MZ670L, PT-MZ570L, PT-MW630L, and PT-MW530L deliver the same performance as PT-MZ670, PT-MZ570, PT-MW630, and PT-MW530, but come without a lens.
*2 With image mode set to "Dynamic" and Dynamic Contrast set to 1 or 2.

## Powered Lens Shift, Zoom, and Focus

Wide adjustment range of the powered horizontal/vertical lens-shift function enhances convenience and versatility during installation. Zoom and focusing are also easily performed with the supplied remote control.

Up 67 %*6

Left 35 %*6

Right 35 %*6

Down 67 %*6

Remote Control

Unit: meters (feet)

	1.0 (3.3)	2.0 (6.6)	3.0 (9.8)	4.0 (13.1)	5.0 (16.4)	6.0 (19.7)	7.0 (23.0)	8.0 (26.2)	9.0 (29.5)	10.0 (32.8)	15.0 (49.2)

ET-ELW21 ET-ELW20

ET-ELT20

100-inch-wide screen

ET-ELW22   Standard lens ET-ELS20

ET-ELT21

Throw distance	1.66 (5.4)	1.71 ~ 2.13 (5.6 ~ 7.0)	2.63 ~ 3.60 (8.6 ~ 11.8)	3.48 ~ 5.96 (11.4 ~ 19.6)	5.90 ~ 9.69 (19.4 ~ 31.8)	9.61 ~ 15.39 (31.5 ~ 50.5)
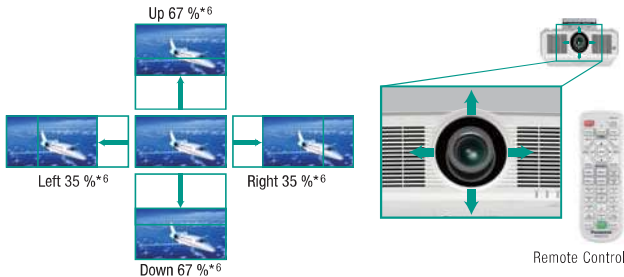
For PT-MZ670/MZ670L and PT-MZ570/MZ570L (16:10 aspect ratio).

Auto Image Rotation

Images are automatically*7 rotated depending on projector orientation—upside-down on the ceiling or set on a table—using a built-in angle sensor.

ABCDEF

ABCDEF

Manual Mode

AUTO Mode
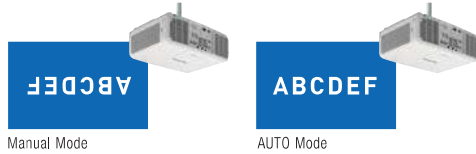
Single-Cable DIGITAL LINK Connection for AV and Control Signals

Based on HDBaseT™ technology, DIGITAL LINK supports transmission of Full HD video, audio*8, and control commands through a single CAT 5e or higher STP cable for distances of 150 m*9 (492 ft). An optional DIGITAL LINK Switcher or Digital Interface Box further streamlines installation in large venues.

DIGITAL LINK™
SINGLE CABLE SOLUTION

Project Wirelessly with Optional Module

An optional ET-WM300 wireless module supports media projection from Windows® and Mac PCs, iOS devices, and Android™ devices with an appropriate app installed. Whether projecting from desk or ceiling, there's no need for cables, and a variety of file formats are supported.

WIRELESS
(Option)

Plug and Share

Insert a USB memory device into the projector's USB terminal. In less than a minute, configuration setting files and an application are copied. Plug the USB memory device into your PC, click the player icon, and transmit video and stills wirelessly to the projector—no software or network setup required.

1. Insert a USB memory device to copy an application and network configuration files

2. Execute player installed on USB memory device
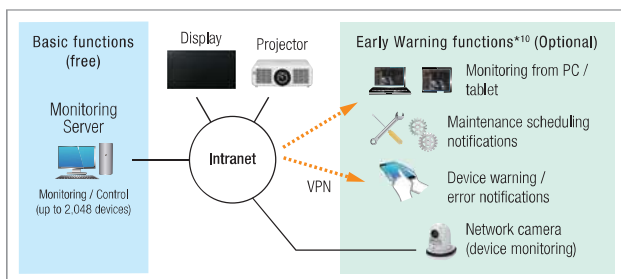
3. Project content wirelessly

Additional Features

· Free 360-degree projector cabinet installation for flexible projection from almost any angle
· Screen Adjustment Functions for complex screen surfaces

360°

New Multi Monitoring & Control Software

Panasonic Multi Monitoring & Control Software supports up to 2,048 devices over LAN and features system map visualization or auto-search of devices to be registered. The free software is available with Early Warning functions (automatic free 90-day trial available). These advanced functions enable real-time monitoring, abnormality detection, and notification before servicing is required. Administrators can achieve seamless control and real-time monitoring while preventing potential problems, saving time, and enhancing system reliability.

Basic functions (free)

Display   Projector

Early Warning functions*10 (Optional)

Monitoring Server

Monitoring from PC / tablet

Intranet

Maintenance scheduling notifications

VPN

Device warning / error notifications

Monitoring / Control (up to 2,048 devices)

Network camera (device monitoring)

Quick Start and Quick Off

The laser light source doesn't require any time to warm up, so images appear almost instantly on projectors with Quick Start/Quick Off function. There's also no cool-down needed when turning the power off. It's safe to switch the projector on and off any time desired.

Fade In and Fade Out

Another benefit of digital laser output power modulation technology is a handy Fade In/Fade Out function, which allows users to commence or conclude their presentation to professional effect.

Additional Features

· Data cloning via USB or LAN terminal
· DICOM Simulation Mode
· USB Memory Viewer
· Compatible with PJLink™ (Class 2), Crestron Connected™, EXTRON XTP, and AMX D.D
· Direct Power Off

· Audio Standby Mode
· Scheduling Function
· Smart Projector Control
· Presentation Support Function
· Extensive high-quality AV terminals
· Supports Panasonic LinkRay™

LinkRay™

*6 Adjustment range may vary depending on lens attached. *7 Manual setting also available via setup menu. *8 Audio transmission depends on model's audio capability. *9 150 m (492 ft) transmission available with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080p in Long Reach Mode only. *10 Software functionality varies depending on the model.

Projection distance
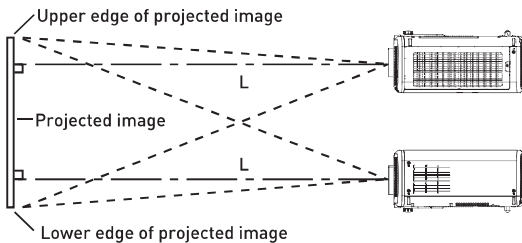
PT-MZ670/PT-MZ670L, PT-MZ570/PT-MZ570L
unit: meters (feet)

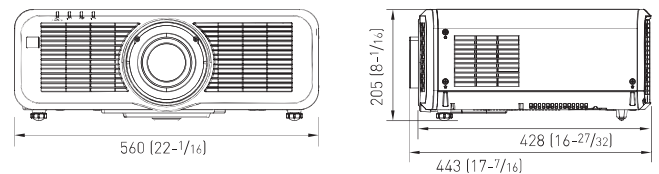| Diagonal image size	Projection distance (L)										
	ET-ELW21	ET-ELW22		ET-ELW20		Standard lens / ET-ELS20		ET-ELT20		ET-ELT21	
Throw ratio (16:10 aspect ratio)	0.8:1	0.8–1.0:1		1.2–1.7:1		1.6–2.8:1		2.7–4.5:1		4.4–7.1:1	
	fix	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)
1.02 [40"]	0.63 (2.1)			1.02 (3.3)	1.41 (4.6)	1.36 (4.5)	2.35 (7.7)	2.29 (7.5)	3.81 (12.5)	3.72 (12.2)	6.03 (19.8)
1.27 [50"]	0.80 (2.6)			1.29 (4.2)	1.77 (5.8)	1.71 (5.6)	2.95 (9.7)	2.89 (9.5)	4.79 (15.7)	4.70 (15.4)	7.59 (24.9)
1.52 [60"]	0.97 (3.2)	1.00 (3.3)	1.26 (4.1)	1.55 (5.1)	2.14 (7.0)	2.06 (6.8)	3.55 (11.6)	3.49 (11.5)	5.77 (18.9)	5.68 (18.6)	9.15 (30.0)
1.78 [70"]	1.14 (3.7)	1.18 (3.9)	1.48 (4.9)	1.82 (6.0)	2.50 (8.2)	2.42 (7.9)	4.15 (13.6)	4.09 (13.4)	6.75 (22.1)	6.66 (21.9)	10.71 (35.1)
2.03 [80"]	1.32 (4.3)	1.35 (4.4)	1.69 (5.5)	2.09 (6.9)	2.87 (9.4)	2.77 (9.1)	4.76 (15.6)	4.69 (15.4)	7.73 (25.4)	7.64 (25.1)	12.27 (40.3)
2.29 [90"]	1.49 (4.9)	1.53 (5.0)	1.91 (6.3)	2.36 (7.7)	3.23 (10.6)	3.12 (10.2)	5.36 (17.6)	5.30 (17.4)	8.71 (28.6)	8.63 (28.3)	13.83 (45.4)
2.54 [100"]	1.66 (5.4)	1.71 (5.6)	2.13 (7.0)	2.63 (8.6)	3.60 (11.8)	3.48 (11.4)	5.96 (19.6)	5.90 (19.4)	9.69 (31.8)	9.61 (31.5)	15.39 (50.5)
3.05 [120"]	2.00 (6.6)	2.06 (6.8)	2.56 (8.4)	3.16 (10.4)	4.33 (14.2)	4.18 (13.7)	7.16 (23.5)	7.10 (23.3)	11.65 (38.2)	11.57 (38.0)	18.51 (60.7)
3.81 [150"]	2.52 (8.3)	2.58 (8.5)	3.22 (10.6)	3.99 (13.1)	5.42 (17.8)	5.24 (17.2)	8.96 (29.4)	8.90 (29.2)	14.59 (47.9)	14.52 (47.6)	23.19 (76.1)
5.08 [200"]	3.38 (11.1)	3.46 (11.4)	4.30 (14.1)	5.31 (17.4)	7.25 (23.8)	7.01 (23.0)	11.96 (39.2)	11.91 (39.1)	19.49 (63.9)	19.43 (63.7)	30.99 (101.7)
6.35 [250"]	4.24 (13.9)	4.34 (14.2)	5.39 (17.7)	6.65 (21.8)	9.07 (29.8)	8.77 (28.8)	14.96 (49.1)	14.91 (48.9)	24.39 (80.0)	24.34 (79.9)	38.79 (127.3)
7.62 [300"]	5.10 (16.7)	5.21 (17.1)	6.48 (21.3)	7.99 (26.2)	10.90 (35.8)	10.54 (34.6)	17.97 (59.0)	17.92 (58.8)	29.29 (96.1)	29.25 (96.0)	46.59 (152.9)
8.89 [350"]	5.95 (19.5)	6.09 (20.0)	7.56 (24.8)	9.33 (30.6)	12.73 (41.8)	12.30 (40.4)	20.97 (68.8)	20.92 (68.6)	34.19 (112.2)	34.16 (112.1)	54.39 (178.4)
10.16 [400"]	6.81 (22.3)	6.97 (22.8)	8.65 (28.4)	10.67 (35.0)	14.55 (47.7)	14.07 (46.2)	23.97 (78.6)	23.93 (78.5)	39.09 (128.2)	39.07 (128.2)	62.19 (204.0)

PT-MW630/PT-MW630L, PT-MW530/PT-MW530L
unit: meters (feet)

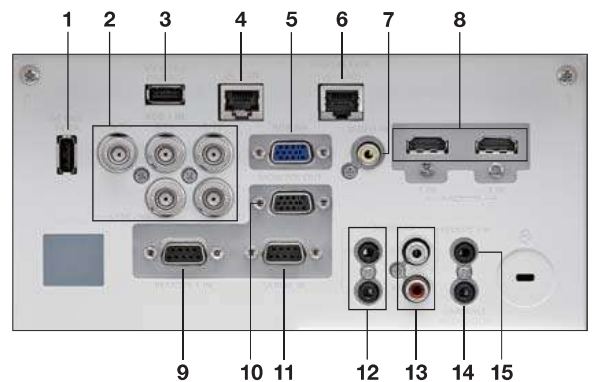| Diagonal image size	Projection distance (L)										
	ET-ELW21	ET-ELW22		ET-ELW20		Standard lens / ET-ELS20		ET-ELT20		ET-ELT21	
Throw ratio (16:10 aspect ratio)	0.8:1	0.8–1.0:1		1.2–1.7:1		1.6–2.8:1		2.8–4.5:1		4.5–7.2:1	
	fix	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)	min. (wide)	max. (tele)
1.02 [40"]	0.64 (2.1)			1.03 (3.4)	1.42 (4.7)	1.38 (4.5)	2.38 (7.8)	2.32 (7.6)	3.85 (12.6)	3.76 (12.3)	6.10 (20)
1.27 [50"]	0.81 (2.7)			1.30 (4.3)	1.79 (5.9)	1.74 (5.7)	2.99 (9.8)	2.93 (9.6)	4.85 (15.9)	4.76 (15.6)	7.68 (25.2)
1.52 [60"]	0.99 (3.2)	1.01 (3.3)	1.26 (4.1)	1.58 (5.2)	2.16 (7.1)	2.09 (6.9)	3.6 (11.8)	3.54 (11.6)	5.84 (19.2)	5.75 (18.9)	9.26 (30.4)
1.78 [70"]	1.16 (3.8)	1.18 (3.9)	1.48 (4.9)	1.85 (6.1)	2.53 (8.3)	2.45 (8.0)	4.21 (13.8)	4.14 (13.6)	6.83 (22.4)	6.75 (22.1)	10.84 (35.6)
2.03 [80"]	1.33 (4.4)	1.36 (4.5)	1.70 (5.6)	2.12 (7.0)	2.90 (9.5)	2.81 (9.2)	4.82 (15.8)	4.75 (15.6)	7.82 (25.7)	7.74 (25.4)	12.42 (40.7)
2.29 [90"]	1.51 (5.0)	1.54 (5.1)	1.92 (6.3)	2.39 (7.8)	3.27 (10.7)	3.16 (10.4)	5.42 (17.8)	5.36 (17.6)	8.81 (28.9)	8.73 (28.6)	14.00 (45.9)
2.54 [100"]	1.68 (5.5)	1.71 (5.6)	2.14 (7.0)	2.66 (8.7)	3.64 (11.9)	3.52 (11.5)	6.03 (19.8)	5.97 (19.6)	9.80 (32.2)	9.73 (31.9)	15.58 (51.1)
3.05 [120"]	2.03 (6.7)	2.06 (6.8)	2.57 (8.4)	3.21 (10.5)	4.38 (14.4)	4.24 (13.9)	7.25 (23.8)	7.19 (23.6)	11.79 (38.7)	11.72 (38.5)	18.73 (61.5)
3.81 [150"]	2.55 (8.4)	2.59 (8.5)	3.23 (10.6)	4.02 (13.2)	5.48 (18.0)	5.31 (17.4)	9.07 (29.8)	9.01 (29.6)	14.76 (48.4)	14.70 (48.2)	23.47 (77.0)
5.08 [200"]	3.42 (11.2)	3.47 (11.4)	4.32 (14.2)	5.38 (17.7)	7.33 (24.0)	7.09 (23.3)	12.11 (39.7)	12.05 (39.5)	19.72 (64.7)	19.67 (64.5)	31.36 (102.9)
6.35 [250"]	4.29 (14.1)	4.35 (14.3)	5.41 (17.7)	6.74 (22.1)	9.17 (30.1)	8.88 (29.1)	15.16 (49.7)	15.10 (49.5)	24.68 (81.0)	24.64 (80.8)	39.26 (128.8)
7.62 [300"]	5.16 (16.9)	5.23 (17.2)	6.50 (21.3)	8.10 (26.6)	11.02 (36.2)	10.67 (35.0)	18.20 (59.7)	18.14 (59.5)	29.64 (97.2)	29.61 (97.1)	47.15 (154.7)
8.89 [350"]	6.03 (19.8)	6.11 (20.0)	7.59 (24.9)	9.46 (31.0)	12.86 (42.2)	12.45 (40.8)	21.24 (69.7)	21.18 (69.5)	34.59 (113.5)	34.58 (113.5)	55.04 (180.6)
10.16 [400"]	6.89 (22.6)	6.99 (22.9)	8.68 (28.5)	10.82 (35.5)	14.71 (48.3)	14.24 (46.7)	24.28 (79.7)	24.22 (79.5)	39.55 (129.8)	39.55 (129.8)	62.94 (206.5)

Upper edge of projected image
L
Projected image
L
Lower edge of projected image

Dimensions

unit: mm (inch)

560 (22-1/16)
205 (8-1/16)
428 (16-27/32)
443 (17-7/16)

Optional accessories

Fixed Lens **ET-ELW21**
Zoom Lens **ET-ELW22**
Zoom Lens **ET-ELW20**
Zoom Lens **ET-ELS20**[*1]

Zoom Lens **ET-ELT20**
Zoom Lens **ET-ELT21**
Low Ceiling Mount Bracket **ET-PKD120S**
High Ceiling Mount Bracket **ET-PKD120H**

Bracket Assembly **ET-PKE301B**
Replacement Filter Unit **ET-RFM100**
Wireless Module **ET-WM300**
Easy Wireless Stick **ET-UW100**[*2]

Early Warning Software **ET-SWA100 Series**[*3]
Note: Part number suffix may differ depending on the license type.
DIGITAL LINK Switcher **ET-YFB200G**
Digital Interface Box **ET-YFB100G**

*1 Available only in the U.S., Canada and the European Communities. *2 Availability varies depending on region.
*3 Multi Monitoring & Control Software Ver. 2.0 or later is required. Please download from the following website:
https://panasonic.net/cns/projector/download/application/

Terminals

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15

1 DC OUT terminal
2 RGB 1 IN terminal
3 VIEWER/PAIRING terminal
4 LAN terminal
5 RGB 2 IN terminal
6 DIGITAL LINK/LAN terminal
7 VIDEO IN terminal
8 HDMI 1/2 IN terminal

9 Remote 1 IN terminal
10 MONITOR OUT terminal
11 SERIAL IN terminal
12 AUDIO IN 1/2 terminal
13 AUDIO IN 3 terminal
14 VARIABLE AUDIO OUT terminal
15 Remote 2 IN terminal

Specifications

Model		PT-MZ670/MZ670L	PT-MZ570/MZ570L	PT-MW630/MW630L	PT-MW530/MW530L
Power supply		100–240 V AC, 50/60 Hz			
Power consumption		525 W (Approx. 0.5 W with Standby Mode set to ECO, Approx. 22 W with Standby Mode set to NORMAL)	450 W (Approx. 0.5 W with Standby Mode set to ECO, Approx. 22 W with Standby Mode set to NORMAL)	505 W (Approx. 0.5 W with Standby Mode set to ECO, Approx. 22 W with Standby Mode set to NORMAL)	415 W (Approx. 0.5 W with Standby Mode set to ECO, Approx. 22 W with Standby Mode set to NORMAL)
LCD panel	Panel size	19.3 mm (0.76˝) diagonal (16:10 aspect ratio)			
	Display method	Transparent LCD panel (x 3, R/G/B)			
	Drive method	Active matrix			
	Pixels	2,304,000 (1920 x 1200) x 3, total of 6,912,000 pixels		1,024,000 (1280 x 800) x 3, total of 3,072,000 pixels	
Lens		PT-MZ670/MZ570/MW630/MW530: Powered zoom (Throw Ratio 1.6–2.8 :1), F = 1.7–2.3, f = 26.8–45.5 mm PT-MZ670L/MZ570L/MW630L/MW530L: Optional powered zoom/focus lenses			
Light source		Laser diodes (Class 1)(Class 3R for US models)			
Screen size (diagonal)		1.02–10.16 m (40–400 in), 16:10 aspect ratio 1.52–10.16 m (60–400 in) with the ET-ELW22, 16:10 aspect ratio			
Brightness*1		6,500 lm	5,500 lm	6,500 lm	5,500 lm
Center-to-corner uniformity*1		90 %			
Contrast		3,000,000:1 (Dynamic Mode/Dynamic Contrast 1/2)			
Resolution		1920 x 1200 pixels*2		1280 x 800 pixels*2	
Scanning frequency	HDMI/DIGITAL LINK	Dot clock: 25–162 MHz (VGA: 640 x 480 pixels to WUXGA: 1920 x 1200 pixels, VESA CVT-RB compliant with HDCP)			
	RGB	fH: 15 kHz–91 kHz, fV: 24 Hz–100 Hz, dot clock: up to 162 MHz			
	YPBPR (YCBCR)	fH: 15.73 kHz, fV: 59.94 Hz [480i (525i)], fH: 15.63 kHz, fV: 50 Hz [576i (625i)], fH: 45.00 kHz, fV: 60 Hz [720 (750)/60p], fH: 33.75 kHz, fV: 60 Hz [1080 (1125)/60i], fH: 28.13 kHz, fV: 25 Hz [1080 (1125)/25p], fH: 27.00 kHz, fV: 48 Hz [1080 (1125)/24sF], fH: 67.50 kHz, fV: 60 Hz [1080 (1125)/60p], fH: 31.47 kHz, fV: 59.94 Hz [480p (525p)], fH: 31.25 kHz, fV: 50 Hz [576p (625p)], fH: 37.50 kHz, fV: 50 Hz [720 (750)/50p], fH: 28.13 kHz, fV: 50 Hz [1080 (1125)/50i], fH: 27.00 kHz, fV: 24 Hz [1080 (1125)/24p], fH: 33.75 kHz, fV: 30 Hz [1080 (1125)/30p], fH: 56.25 kHz, fV: 50 Hz [1080 (1125)/50p]			
	Video	fH: 15.73 kHz, fV: 59.94 Hz [NTSC/NTSC4.43/PAL-M/PAL60], fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]			
Optical axis shift	Vertical (from center of screen)	±67 % (powered) (for supplied lens [ELS20]/ELW20/ELT20/ELT21, ELW22: max. ±60 %, ELW21: cannot use optical axis shift function)			
	Horizontal (from center of screen)	±35 % (powered) (for supplied lens [ELS20]/ELW20/ELT20/ELT21, ELW22: max. ±30%, ELW21: cannot use optical axis shift function)			
Keystone correction range*3		Vertical: ±25 °, horizontal: ±30 °		Vertical: ±35 °, horizontal: ±35 ° (Up to a total of ±55 ° during simultaneous horizontal and vertical correction)	
Installation		Horizontal/Vertical, free 360-degree installation			
Built-in speaker		10 W (monaural)			
Terminals	HDMI IN	HDMI 19-pin x 2 (Deep Color, compatible with HDCP), audio signal: Linear PCM (Sampling frequency: 48 kHz/44.1 kHz/32 kHz)			
	RGB 1 IN	BNC x 5 (RGB or YPBPR/YCBCR x 1)			
	RGB 2 IN	D-sub HD 15-pin (female) x 1 (compatible with component input)			
	VIDEO IN	Pin jack x 1 (composite video)			
	MONITOR OUT	D-sub HD 15-pin (female) x 1 (RGB x 1) (compatible with RGB or YPBPR/YCBCR)			
	AUDIO IN	Pin jack x 2 (L-R x 1), M3 x 2 (L-R x 2)			
	AUDIO OUT	M3 x 1 (L-R x 1) for output (variable)			
	SERIAL IN	D-sub 9-pin (female) x 1 for external control (RS-232C compliant)			
	REMOTE 1 IN	D-sub 9-pin (female) x 1 for external control (parallel)			
	REMOTE 2 IN	M3 x 1 for wired remote control			
	LAN	RJ-45 x 1 for network connection, 10Base-T, 100Base-TX, compatible with PJLink™ (Class 2)			
	DIGITAL LINK	RJ-45 x 1 for network and DIGITAL LINK connection, 100Base-TX, compatible with PJLink™ (Class 2), HDCP, Deep Color			
	Memory Viewer/Pairing	USB (Type A) x 1			
	DC OUT	USB (Type A) x 1, DC 5 V/2 A*4			
Operating noise*1		32 dB (Normal/ECO Mode), 26 dB (Quiet Mode)			
Filter		x 1, estimated maintenance time: approx. 20,000 hours*5			
Cabinet materials		Molded plastic (PC + ABS)			
Dimensions (W x H x D)		PT-MZ670/MZ570/MW630/MW530: 560 x 205*6 x 443.2 mm (22 1/16˝ x 8 1/16˝*6 x 17 7/16˝) (with supplied lens) PT-MZ670L/MZ570L/MW630L/MW530L: 560 x 205*6 x 428 mm (22 1/16˝ x 8 1/16˝*6 x 16 27/32˝) (without lens)			
Weight*7		PT-MZ670/MZ570/MW630/MW530: Approximately 16.9 kg (37.3 lbs) (with supplied lens) PT-MZ670L/MZ570L/MW630L/MW530L: Approximately 16.1kg (35.5 lbs) (without lens)			
Operating environment		Operating temperature: 0 °C–45 °C (32 °F–113 °F)*8, operating humidity: 20 %–80 % (no condensation)			
Supplied accessories		Power cord with power cord holder*9, wireless/wired remote control unit x 1, batteries (R03/LR03/AAA type x 2), CD-ROM x 1 (operation manual)			

Note: PT-MZ670L, PT-MZ570L, PT-MW630L, and PT-MW530L deliver the same performance as PT-MZ670, PT-MZ570, PT-MW630, and PT-MW530, but come without a lens.
*1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards. *2 Input signals that differ from supported resolution will be converted. *3 With supplied lens. Value differs when correction for both directions is operated. *4 On standby, power supply is available with Quick Startup set to ON or Power Management set to Ready. *5 Under conditions with 0.15 mg/m³ of particulate matter (based on tests by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers [ASHRAE], and the Japanese Building Maintenance Association). Estimated maintenance time varies depending on environment. *6 With legs at shortest position. *7 Average value. May differ depending on models. *8 Brightness is limited at operating temperatures higher than 36 °C (96 °F), and projectors cannot be operated at altitudes higher than 2,700 m (8,858 ft) above sea level. *9 Power cords available (x2) for Europe, the UK, and Asia only.

Panasonic®

All information included here is valid as of February 2018.

PT-MZ670series_G2 Printed in Japan.