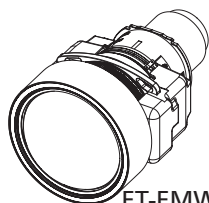


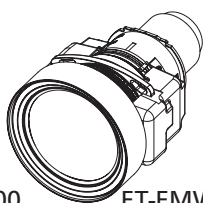
Operating Instructions

Zoom Lens **Commercial Use**

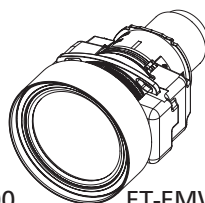
Model No. ET-EMW200 / ET-EMW300 / ET-EMW400 /
ET-EMW500 / ET-EMS650 / ET-EMT750 /
ET-EMT850 / ET-EMU100



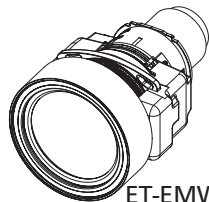
ET-EMW200



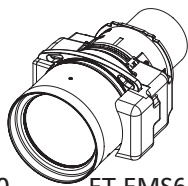
ET-EMW300



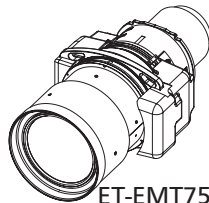
ET-EMW400



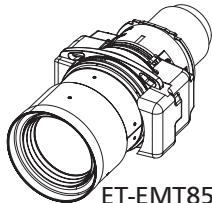
ET-EMW500



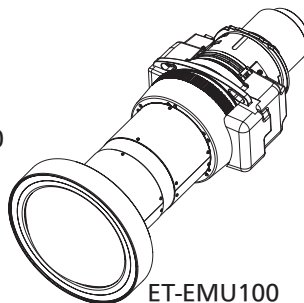
ET-EMS650



ET-EMT750



ET-EMT850



ET-EMU100

ENGLISH

FRANÇAIS

日本語

Thank you for purchasing this Panasonic product.

- To ensure correct use of this lens, please read the operating instructions supplied with the lens and the projector carefully.
- **Before using this product, be sure to read “Read this first!” (▶ Page 3 to 5).**
- Please save this manual for future use.

Contents

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Projected image size and Projection distance	Appendix / Annexe / 付録 1
The "Appendix" can be found after the Japanese language section (日本語).	

WARNING:

Do not look at or place your skin into the light emitted from the lens while the projector is being used.

Doing so can cause burns or loss of sight.

- Strong light is emitted from the projector's lens. Do not look at or place your hands directly into this light.
- Turn off the power when moving away from the projection lens or projector.

Do not project an image with the lens cover attached.

- Doing so can cause fire.

Do not allow children to reach the lens fixing screw.

Accidentally swallowing them can cause physical harm.

- If swallowed, seek medical advice immediately.

CAUTION:

Before replacing the projection lens, be sure to turn off the power and disconnect the power plug from the wall outlet.

- Unexpected projection of light may cause injury to eyes.
- Replacing the projection lens without removing the power plug may result in electric shock.

Do not stand in front of the lens while the projector is being used.

Doing so can cause damage and burns to clothing.

- Strong light is emitted from the projector's lens.

Do not place objects in front of the lens while the projector is being used.

Doing so can cause fire, damage to the object, or malfunction of the lens and projector.

- Strong light is emitted from the projector's lens.

Do not open the desiccant bag. Do not eat the contents.

Inadvertently ingesting desiccant could be harmful.

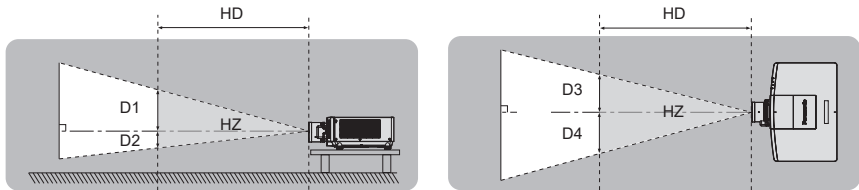
- If the desiccant gets into your eyes or mouth, immediately rinse with plenty of water and seek medical attention.
- Keep desiccant out of the reach of children.

Read this first! (continued)

■ Hazard distance (IEC/EN 62471-5:2015)

The distance from the projection lens surface, at which the emission reaches the Accessible Emission Limit (AEL) of risk group 2, is known as the hazard distance (HD) or safety distance. The area where the emission exceeds the Accessible Emission Limit of risk group 2 is called the hazard zone (HZ).

Within the hazard zone, never look into the light projected from the projector. The eyes may be damaged by direct irradiation even if you look at the light just for a moment. If you are outside the hazard zone, it is considered to be safe in all circumstances except deliberately staring into the light projected from the projector.



■ Risk group

The combination of the projector and the projection lens is categorized as risk group 2 when the hazard distance is 1 m (39-3/8") or less. It is categorized as risk group 3 when the hazard distance exceeds 1 m (39-3/8"), and it will be for professional use instead of consumer use.

In the case of risk group 3, there is a possibility of damaging the eyes by direct irradiation when looking into the projection light from inside the hazard zone even for a moment.

In the case of risk group 2, safe use without damaging the eyes is possible in all circumstances except deliberately staring into the light projected from the projector.

The combination of projector and projection lens classified as risk group 3 with a hazard distance greater than 1 m (39-3/8") is as follows.

Projector model	Projector lens model	Use condition	Risk group
PT-MZ20K PT-MZ17K	ET-EMT750 ET-EMT850	—	Risk group 3
PT-MZ14K ^{*1} PT-MZ11K ^{*1}	ET-EMT850	—	Risk group 3
PT-MZ16K	ET-EMT750 ^{*2}	When the throw ratio is 2.9:1 or less	Risk group 2
	ET-EMT850	When the throw ratio exceeds 2.9:1	Risk group 3
PT-MZ13K	ET-EMT750 ^{*2}	When the throw ratio is 3.4:1 or less	Risk group 2
	ET-EMT850	When the throw ratio exceeds 3.4:1	Risk group 3
PT-MZ10K ^{*1}	ET-EMT850 ^{*2}	When the throw ratio is 4.6:1 or less	Risk group 2
	ET-EMT850 ^{*2}	When the throw ratio exceeds 4.6:1	Risk group 3

*1 When using the ET-EMT750 attached to the PT-MZ14K / PT-MZ11K / PT-MZ10K, the risk group is 2 because the hazard distance is less than 1 m (39-3/8").

*2 The risk group differs depending on the throw ratio in the actual usage state.

Read this first! (continued)

Furthermore, each dimension to indicate the hazard area (Hz) for a combination with a projection lens that has a hazard distance exceeding 1 m (39-3/8") is as follows.

(Unit: m)

Projector model	Projector lens model	HD ^{*1}	D1 ^{*2}	D2 ^{*2}	D3 ^{*2}	D4 ^{*2}
PT-MZ20K	ET-EMT750	1.7	0.21	0.21	0.25	0.25
	ET-EMT850	2.7	0.18	0.18	0.22	0.22
PT-MZ17K	ET-EMT750	1.0	0.12	0.12	0.14	0.14
	ET-EMT850	2.4	0.16	0.16	0.19	0.19
PT-MZ14K	ET-EMT850	2.1	0.14	0.14	0.17	0.17
PT-MZ11K	ET-EMT850	1.6	0.11	0.11	0.13	0.13
PT-MZ16K	ET-EMT750	1.6	0.59	0.59	0.67	0.67
	ET-EMT850	2.6	0.42	0.42	0.48	0.48
PT-MZ13K	ET-EMT750	1.3	0.48	0.48	0.55	0.55
	ET-EMT850	2.0	0.31	0.31	0.35	0.35
PT-MZ10K	ET-EMT850	1.5	0.22	0.22	0.25	0.25

*1 HD: Hazard distance

*2 The values of D1 to D4 will change in accordance with the lens shift amount. Each value in the table is the maximum value.

Note

- The values in the table are based on IEC/EN 62471-5:2015.
- The projectors compatible with each projection lens may be added or changed without notice. For the latest information, refer to the website (<https://docs.connect.panasonic.com/projector>).

Attention

- If the light projected from the projector directly enters the eyes while you are inside the hazard zone, the retinas may be damaged. Do not enter the hazard zone during use. Alternatively, install the projector in a location where the projected light will not directly enter the eyes.

Before Use

Supported projectors

PT-MZ20K / PT-MZ17K / PT-MZ14K / PT-MZ11K / PT-MZ16K / PT-MZ13K / PT-MZ10K

Note

- This manual omits the alphabets at the end of projector model numbers.
- Models other than the above may also be supported. Refer to the operating instructions of your projector or visit the following website.

<https://docs.connect.panasonic.com/projector>

- Some projection lens cannot be used depending on the firmware version of the projector. Update the firmware to the latest version first in the case below.

For the updating procedure, refer to "Updating the firmware" (➡ Operating Instructions – Functional Manual: Chapter 5).

Firmware of the latest version can be downloaded from the following website.

<https://docs.connect.panasonic.com/projector/pass>

– ET-EMS650 / ET-EMT750 / ET-EMT850

If the main version of the firmware of the PT-MZ16K / PT-MZ13K / PT-MZ10K is less than 1.25 or less than 2.13

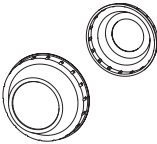

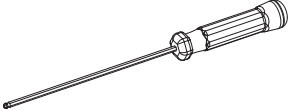
If the firmware version of the PT-MZ17K / PT-MZ14K / PT-MZ11K is less than 1.10

– ET-EMU100

If the main version of the firmware of the PT-MZ16K / PT-MZ13K / PT-MZ10K is less than 1.23 or less than 2.10

Supplied Accessories

Make sure that the following has been provided.

Part name	Appearance (quantity)
Lens cover	 <ul style="list-style-type: none"> ● The product is delivered with lens covers attached. ● The shape and size of the lens covers are different for each product. <p style="text-align: right;">1 each for front and rear</p>
Lens fixing screw (DPHD1008ZA/X1)	 <ul style="list-style-type: none"> ● Supplied only with the ET-EMU100. The product may be delivered with the lens fixing screws attached. ● Used when attaching the projection lens to the projector. <p style="text-align: right;">x4</p>
Hex driver	 <ul style="list-style-type: none"> ● Supplied only with the ET-EMU100. ● Used when attaching the projection lens to the projector. <p style="text-align: right;">x1</p>

Preparation

Before replacing the projection lens

Return the projection lens to the home position before replacing or removing it. For details on how to return the lens to the home position, refer to the operating instructions of the projector.

Attention

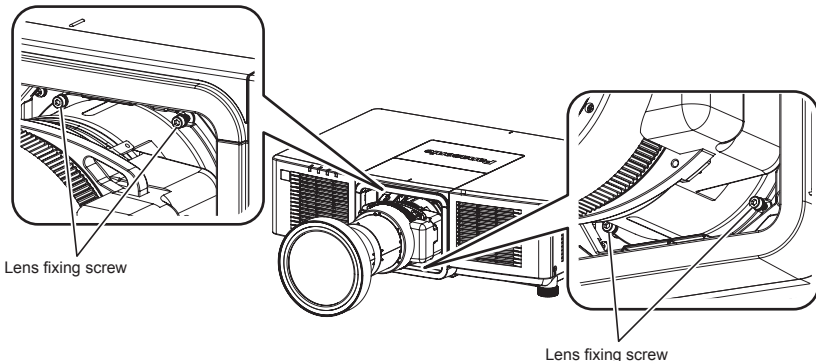
- Make sure that the projector power supply is switched off before attaching or detaching the projection lens.
- After removing the projection lens, store it safely away from vibration or impacts.
- Do not touch the electric contact points of the projection lens with your fingers. Dust and dirt on the contacts may cause contact malfunctions, while static electricity may damage the unit.
- Do not turn the gear (ring) part of the projection lens barrel by hand. Doing so may damage the motor.
- Do not touch the surface of the lens with bare hands. Finger prints and dirt on the surface of the lens will be magnified by the lens and lower the quality of the projected image. Place the supplied lens cover on the zoom lens when the projector is not in use.
- The lens is made of glass. The lens could be damaged if brought into contact with or rubbed against hard objects. Handle the lens carefully.
- Use a clean, soft and dry cloth to wipe away dust and dirt from the projection lens. Do not use fluffy cloths containing oil, water or dust for cleaning. The lens is easily damaged, so do not apply excessive pressure when wiping it.

Attaching the Lens / Detaching the Lens

For details on attaching or removing the projection lens, refer to the operating instructions for the projector.

Attention

- When attaching the ET-EMU100 to the projector, fix it in place by tightening the lens fixing screws (4 locations) as shown in the figure below to stabilize focus performance.
- Use the hex driver supplied with the ET-EMU100 to tighten the lens fixing screws.



Preparation (continued)

Peripheral focus adjustment function

When you change the size of the projected image, the focal balance between the center and peripheral areas of the screen may shift.

The ET-EMW200 / ET-EMW300 / ET-EMW400 / ET-EMW500 / ET-EMU100 is equipped with a peripheral focus adjustment function to correct the shift in focal balance between the center and peripheral areas of the screen.

For instructions on adjusting the peripheral focus, refer to “Projecting” in the operating instructions for the projector.

Lens calibration

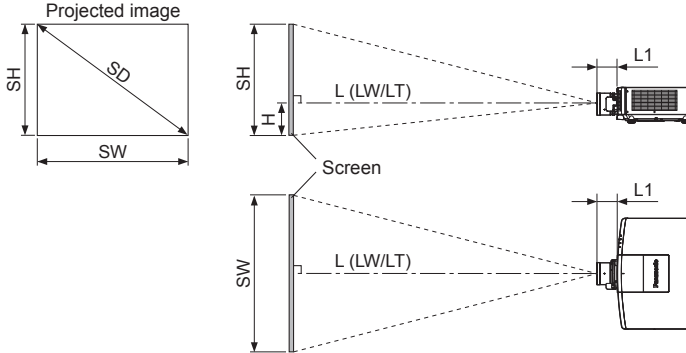
Perform lens calibration after attaching the lens.

For instructions on lens calibration, refer to “Projecting” in the operating instructions for the projector.

Projection relationships

The dimensional relationship between the screen and the projector is shown below.

■ Dimensional relationship diagram



Note

- This diagram assumes that the size and position of the projected image will be adjusted so that the image fills the entire screen.
- This illustration is not drawn to scale.

L	Projection distance		H	Distance from the lens center to the lower edge of the projected image
	LW	Minimum distance	SH	Projected image height
	LT	Maximum distance	SW	Projected image width
L1	Lens protrusion dimension		SD	Projected image size

● Dimension for L1 (approximate values)

(Unit: m)

Projector model	ET-EMW200	ET-EMW300	ET-EMW400	ET-EMW500	ET-EMS650	ET-EMT750	ET-EMT850	ET-EMU100
PT-MZ20K PT-MZ17K PT-MZ14K PT-MZ11K PT-MZ16K PT-MZ13K PT-MZ10K	0.152	0.121	0.121	0.122	0.117	0.166	0.173	0.346

Note

- The illustrations of projectors in this manual are for informational purposes only and do not represent a specific projector model. Configurations may vary with the model.

Attention

- To prevent obstruction of the intake and exhaust vents, install the projector with a clearance from walls and objects. For details about the required distance from surrounding walls and objects, refer to the operating instructions for your projector.

Projection relationships (continued)

If you are installing the projector in a sealed space, be sure to provide additional air conditioning equipment and ventilation equipment. Insufficient ventilation will result in an accumulation of heat and may activate the projector's protection circuit.

- Avoid setting up in places which are subject to sudden temperature changes, such as near an air conditioner or lighting equipment (studio lamps, etc.).

■ Dimensional relationship

For details on the projection distance (L), refer to "Projected image size and Projection distance" and "Projection distance formulas" in the Appendix.

Note

- For details on "Projected image size and Projection distance" for projector models other than PT-MZ20K / PT-MZ17K / PT-MZ14K / PT-MZ11K / PT-MZ16K / PT-MZ13K / PT-MZ10K, refer to "Setting up" in the operating instructions of the projector.

Lens shift ranges

Perform the lens position shift within the adjustment range.

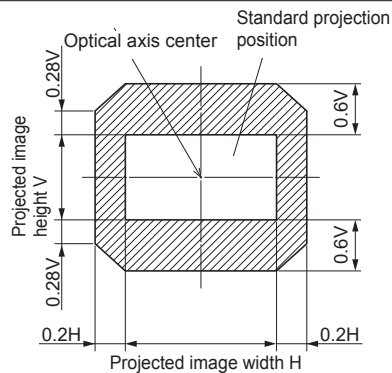
Perform lens shift adjustment within the ranges shown in the following illustrations.

The focus may change when the lens position is shifted out of the adjustment range.

This is because the movement of the lens is restricted to protect the optical parts.

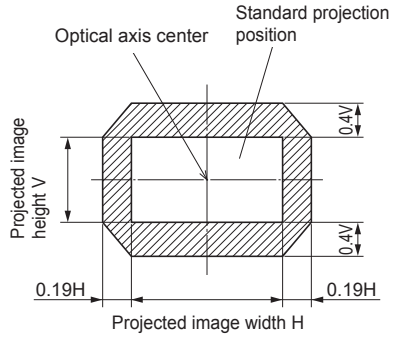
Projection position can be adjusted with the optical axis shift based on the home position in the respective range.

ET-EMW400 / ET-EMW500 /
ET-EMS650 / ET-EMT750 /
ET-EMT850

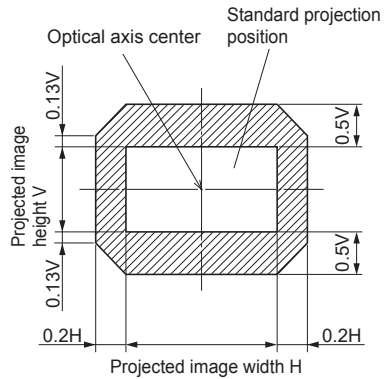


Lens shift ranges (continued)

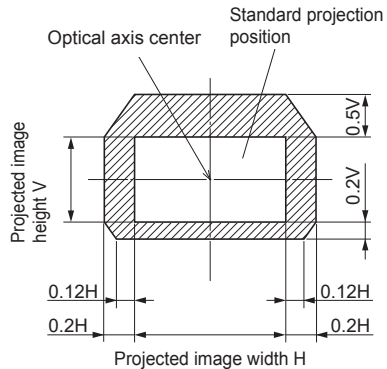
ET-EMW200



ET-EMW300



ET-EMU100



Note

- The home position of the projector is a point of origin position for the lens shift (i.e., vertical and horizontal positions of the lens) based on the results of lens calibration. It is not the optical center position of the screen.

Specifications

Check the specifications of each projection lens, and use the appropriate lens for your intended use.

Model No.	ET-EMW200	ET-EMW300	ET-EMW400	ET-EMW500
F value	1.84 - 2.14	1.84 - 2.24	1.84 - 2.24	1.80 - 2.35
Focal Length (f)	10.80 mm (7/16") - 12.52 mm (1/2")	12.31 mm (1/2") - 15.43 mm (19/32")	15.30 mm (19/32") - 21.10 mm (27/32")	21.08 mm (27/32") - 30.00 mm (1-3/16")
Dimensions	Width	179 mm (7-1/16")	179 mm (7-1/16")	179 mm (7-1/16")
	Height	175 mm (6-7/8")	175 mm (6-7/8")	175 mm (6-7/8")
	Depth	314 mm (12-3/8")	284 mm (11-3/16")	284 mm (11-3/16")
Net Weight	5.20 kg (11.46 lb)	5.20 kg (11.46 lb)	5.05 kg (11.13 lb)	5.15 kg (11.35 lb)

Model No.	ET-EMS650	ET-EMT750	ET-EMT850	ET-EMU100
F value	1.75 - 2.17	1.82 - 2.53	1.85 - 2.39	1.9
Focal Length (f)	29.90 mm (1-3/16") - 46.32 mm (1-13/16")	46.00 mm (1-13/16") - 90.50 mm (3-9/16")	90.30 mm (3-9/16") - 162.60 mm (6-13/32")	7.23 mm (9/32") - 7.73 mm (5/16")
Dimensions	Width	173 mm (6-13/16")	173 mm (6-13/16")	200 mm (7-7/8")
	Height	130 mm (5-1/8")	130 mm (5-1/8")	200 mm (7-7/8")
	Depth	267 mm (10-1/2")	327 mm (12-7/8")	336 mm (13-7/32")
Net Weight	3.71 kg (8.18 lb)	4.59 kg (10.12 lb)	4.45 kg (9.81 lb)	7.20 kg (15.87 lb)

Dimensions

(Unit: mm)

Model number	Dimensions
ET-EMW200	

Dimensions (continued)

(Unit: mm)

Model number	Dimensions
ET-EMW300	<p>179 (7-1/16") $\phi 175$ (6-7/8") 284 (11-3/16") 82 (3-7/32") 91 (3-19/32")</p>
ET-EMW400	<p>179 (7-1/16") $\phi 175$ (6-7/8") 284 (11-3/16") 82 (3-7/32") 91 (3-19/32")</p>
ET-EMW500	<p>179 (7-1/16") $\phi 175$ (6-7/8") 285 (11-7/32") 82 (3-7/32") 91 (3-19/32")</p>

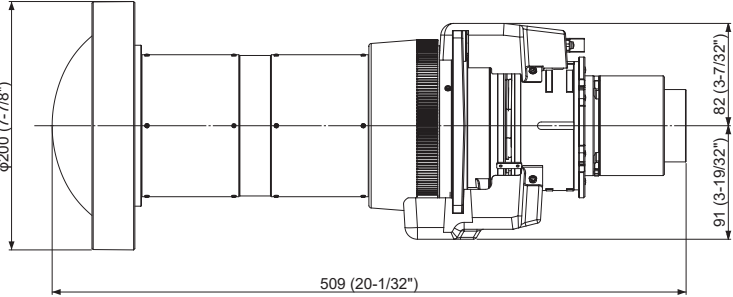
Dimensions (continued)

(Unit: mm)

Model number	Dimensions
ET-EMS650	<p>Technical drawing of the ET-EMS650 model showing dimensions: total length 267 (10-1/2"), main body diameter $\phi 130$ (5-1/8"), and a secondary diameter of 82 (3-7/32").</p>
ET-EMT750	<p>Technical drawing of the ET-EMT750 model showing dimensions: total length 327 (12-7/8"), main body diameter $\phi 130$ (5-1/8"), and a secondary diameter of 82 (3-7/32").</p>
ET-EMT850	<p>Technical drawing of the ET-EMT850 model showing dimensions: total length 336 (13-7/32"), main body diameter $\phi 130$ (5-1/8"), and a secondary diameter of 82 (3-7/32").</p>

Dimensions (continued)

(Unit: mm)

Model number	Dimensions
ET-EMU100	 <p>The technical drawing illustrates the ET-EMU100 camera lens with the following dimensions:</p> <ul style="list-style-type: none">Front diameter: $\phi 200$ (7-7/8")Total length: 509 (20-1/32")Mounting flange diameter (top): 91 (3-19/32")Mounting flange diameter (bottom): 82 (3-7/32")

English

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Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Γερμανία

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An tSeapáin

Allmhaireoir :

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Panasonic Projector & Display Corporation

Web Site : <https://docs.connect.panasonic.com/projector>

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