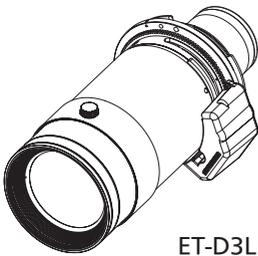


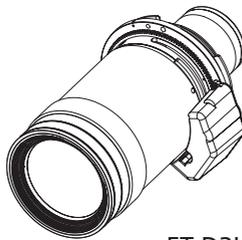
Operating Instructions

Zoom Lens **Commercial Use**

Model No. ET-D3LEW10
ET-D3LET30
ET-D3LET40

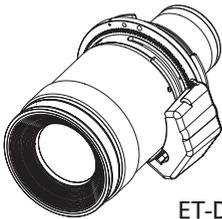


ET-D3LEW10



ET-D3LET30

ENGLISH



ET-D3LET40

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).**
- Please save this manual for future use.

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Lens shift ranges	9
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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).	

Read this first!

Always follow these precautions

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.

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.

WARNING (North America)

A projector would become Class IIIb laser product when this lens is used under the condition that throw ratio is greater than 3.0, and if used without lens hood. If you use under this condition, you must receive variance approval letter from FDA before usage. Class IIIb levels of laser radiation are considered to be an acute hazard to the skin and eyes from direct radiation.

Note

- The lens hood needs to be mounted to the projector when this lens is used under the condition that throw ratio is greater than 3.0 in the North America region. Always ask a qualified technician or your dealer to mount the lens hood. For the assembly and attachment, refer to the separate document "Mounting the lens hood". The components and document of the lens hood may not be supplied depending on the country or region where you purchased the product.

Before Use

This zoom lens is a projection lens equipped with an EEPROM*1 and stepping motor.

*1 EEPROM: Electrically erasable programmable read-only memory

Supported projectors

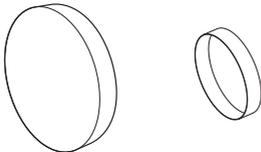
PT-RQ32K / PT-RZ31K / PT-RS30K / PT-RQ22K / PT-RZ21K / PT-RS20K

Note

- Some of the alphabet letters at the end of projector model numbers may be omitted in this manual.
- Models other than the above may also be supported. Refer to the operating instructions for your projector or the Panasonic website (<https://panasonic.net/cns/projector/>).
- If the projector you are using is PT-RQ32K / PT-RZ31K / PT-RS30K / PT-RZ21K / PT-RS20K, you may not be able to use the projection lens depending on main version of the firmware. If main version of the firmware is the version number shown below, update to the latest firmware before use.
 - PT-RQ32K / PT-RZ31K / PT-RS30K: Earlier than 3.00
 - PT-RZ21K / PT-RS20K: Earlier than 2.00For details on the update procedure, refer to the latest firmware information on the Panasonic website (<https://panasonic.net/cns/projector/pass/>).
- The main version of the firmware can be checked in the [STATUS] screen.

Supplied Accessories

Make sure that the following has been provided.

Part name	Appearance
Lens cover	 <ul style="list-style-type: none">● The product is delivered with a lens cover attached.● The shape and size of the lens caps are different for each product. <p>1 each for front and rear</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 electrical contacts 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 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 and Detaching the Lens

For details on attaching and detaching the projection lens, refer to the operating instructions of the projector.

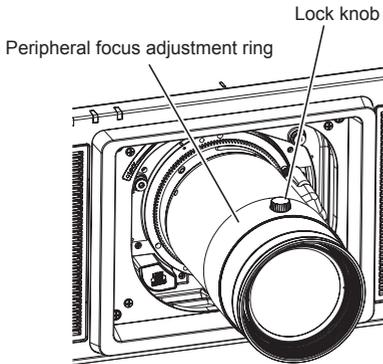
Preparation (continued)

Peripheral focus adjustment function (ET-D3LEW10)

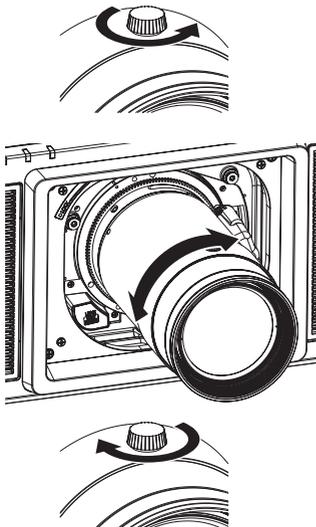
When you change the size of the projected image, the focal balance between the center and peripheral areas of the screen may shift. This shift in balance tends to increase proportionally with smaller throw ratios.

The ET-D3LEW10 is equipped with a peripheral focus adjustment function to correct the shift in focal balance between the center and peripheral areas of the screen.

The illustrations in this procedure depict use of the PT-RZ21K as an example.



■ Adjusting the focus



- 1) Operate the projector to align the focus of the center of the projected image.
- 2) Loosen the lock knob by turning it counterclockwise.
- 3) Turn the peripheral focus adjustment ring in the directions of the arrows to align the focus of the peripheral areas of the image.
- 4) Tighten the lock knob by turning it clockwise.

Note

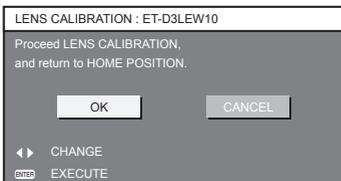
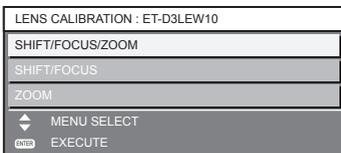
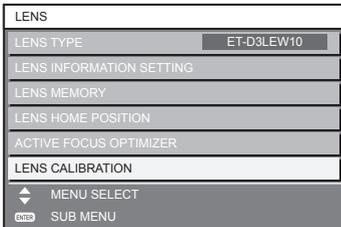
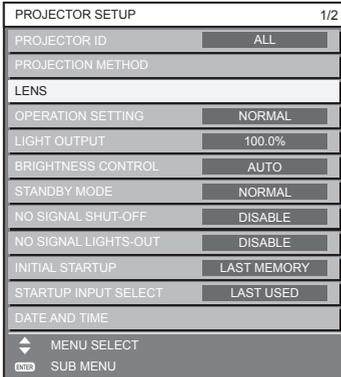
- The screen sizes displayed on the lens are approximate guides.

Preparation (continued)

Lens calibration

Perform lens calibration after attaching the lens.

The illustrations in this procedure depict use of the ET-D3LEW10 as an example.



- 1) Press the <MENU> button.
- 2) Use the ▲ and ▼ buttons to select [PROJECTOR SETUP], and press the <ENTER> button.
 - The [PROJECTOR SETUP] screen appears.
- 3) Use the ▲ and ▼ buttons to select [LENS], and press the <ENTER> button.
 - The [LENS] screen appears.
- 4) Use the ▲ and ▼ buttons to select [LENS CALIBRATION], and press the <ENTER> button.
 - The [LENS CALIBRATION] screen appears.
- 5) Use the ▲ and ▼ buttons to select [SHIFT/FOCUS/ZOOM], and press the <ENTER> button.
 - The confirmation screen appears.
- 6) Use the ◀ and ▶ buttons to select [OK], and press the <ENTER> button.
 - Lens calibration starts.
 - The projection lens moves to the home position after adjustment range calibration is complete.

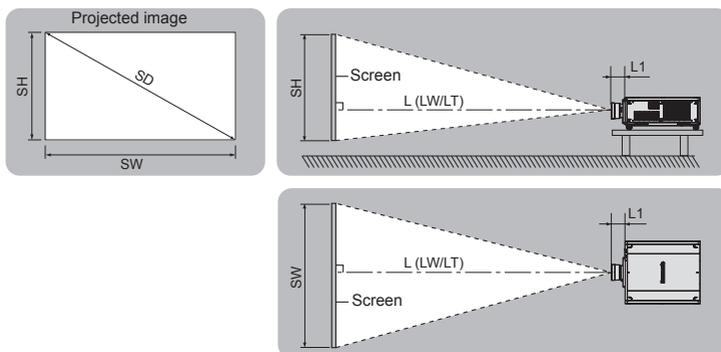
Note

- If lens calibration is not performed, the available zoom range will be narrowed.

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
	LW	Minimum distance
	LT	Maximum distance
L1		Lens protrusion dimension
SH		Projected image height
SW		Projected image width
SD		Projected image size

● Dimension for L1 (approximate values)

(Unit: m)

Projector model	Dimension for L1 (approximate value)		
	ET-D3LEW10	ET-D3LET30	ET-D3LET40
PT-RQ32K / PT-RZ31K / PT-RS30K	0.18	0.15	0.10
PT-RQ22K / PT-RZ21K / PT-RS20K	0.21	0.18	0.13

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

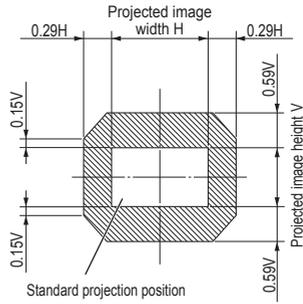
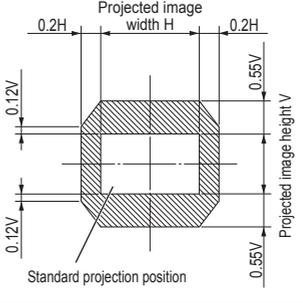
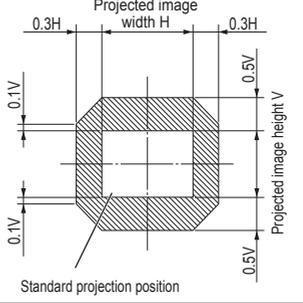
- To prevent obstruction of the intake and exhaust vents, install the projector with a clearance at least 500 mm (1 ft. 7 in.) from walls and objects.
If you are installing the projector in a sealed space, be sure to provide additional air conditioning equipment and ventilation equipment. Insufficient 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.

Lens shift ranges

After moving the lens to the home position according to “Lens calibration” on page 7, you can use the position of the projected image at that position (i.e., the standard projection position) as a basis, and use the lens shift adjustment function on the projector to adjust the position of the projected image within the respective lens shift ranges. Perform lens shift adjustment within the ranges shown in the following illustrations. Moving the lens outside of the adjustment ranges may alter the focus. This occurs due to limitations in lens movement that are intended to protect the optical components. The following illustrations depict lens shift ranges for floor installations of the projector.

<p>PT-RQ32K / PT-RQ22K</p>	 <p>Projected image width H</p> <p>0.29H</p> <p>0.15V</p> <p>0.15V</p> <p>0.59V</p> <p>0.59V</p> <p>Projected image height V</p> <p>Standard projection position</p>
<p>PT-RZ31K / PT-RZ21K</p>	 <p>Projected image width H</p> <p>0.2H</p> <p>0.12V</p> <p>0.12V</p> <p>0.55V</p> <p>0.55V</p> <p>Projected image height V</p> <p>Standard projection position</p>
<p>PT-RS30K / PT-RS20K</p>	 <p>Projected image width H</p> <p>0.3H</p> <p>0.1V</p> <p>0.1V</p> <p>0.5V</p> <p>0.5V</p> <p>Projected image height V</p> <p>Standard projection position</p>

Note

- The home position of the projector 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

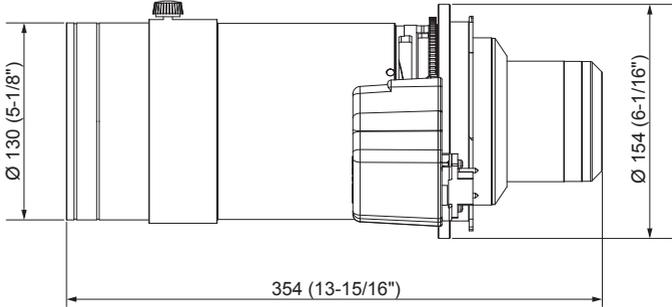
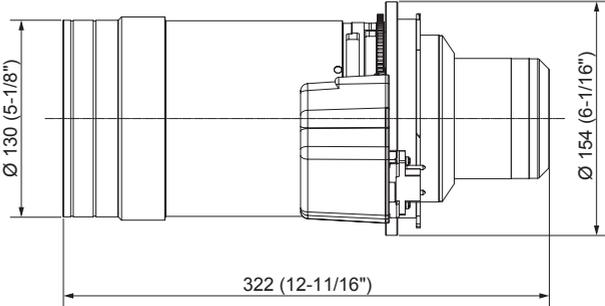
Check the specifications of each projection lens, and use the appropriate lens for your intended use.

Model No.		ET-D3LEW10	ET-D3LET30	ET-D3LET40
F value		2.5	2.5	2.5
Focal Length (f)		26.6 mm (1-1/16") - 36.4 mm (1-7/16")	50.4 mm (1-31/32") - 98.0 mm (3-27/32")	96.6 mm (3-13/16") - 154.9 mm (6-3/32")
Dimensions*1	Width	154 mm (6-1/16")	154 mm (6-1/16")	154 mm (6-1/16")
	Height	154 mm (6-1/16")	154 mm (6-1/16")	154 mm (6-1/16")
	Depth	354 mm (13-15/16")	322 mm (12-11/16")	279 mm (10-31/32")
Net Weight		Approx. 6.2 kg (13.7 lb)	Approx. 5.8 kg (12.8 lb)	Approx. 5.0 kg (11 lb)

*1: Excluding protrusions.

Dimensions

(Unit: mm)

Model number	Dimensions
ET-D3LEW10	 <p>Technical drawing of the ET-D3LEW10 projection lens. The drawing shows a side view of the lens with three main dimension lines: a vertical line on the left indicating a diameter of $\varnothing 130$ (5-1/8"), a vertical line on the right indicating a height of $\varnothing 154$ (6-1/16"), and a horizontal line at the bottom indicating a depth of 354 (13-15/16").</p>
ET-D3LET30	 <p>Technical drawing of the ET-D3LET30 projection lens. The drawing shows a side view of the lens with three main dimension lines: a vertical line on the left indicating a diameter of $\varnothing 130$ (5-1/8"), a vertical line on the right indicating a height of $\varnothing 154$ (6-1/16"), and a horizontal line at the bottom indicating a depth of 322 (12-11/16").</p>

Dimensions (continued)

Model number	Dimensions
ET-D3LET40	<p>Technical drawing of the ET-D3LET40 camera lens showing dimensions:</p> <ul style="list-style-type: none">Front diameter: $\varnothing 130$ (5-1/8")Overall length: 279 (10-31/32")Rear diameter: $\varnothing 154$ (6-1/16")

Information for users in the European Union

Importer's name and address within the European Union
Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

Disposal of Old Equipment

Only for European Union and countries with recycling systems



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By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

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Product Information (for Turkey only)



AEEE Yönetmeliğine Uygundur.

Eski Ekipman ve Bataryaların İşlenmesi.

Sadece geri dönüşüm sistemleri olan Avrupa Birliği ve ülkeleri için geçerlidir.

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Panasonic Corporation

Web Site : <https://panasonic.net/cns/projector/>

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