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.

Product information (for Turkey only)
EEE Yönetmeliğine Uygundur.
EEE Complies with Directive of Turkey.
## Contents

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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.
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.
- Before attaching the Fixed-focus lens, remove the protective film from the light projecting surface and the lens cap from the lens.

- Be sure not to touch the light projecting surface or the surface of the lens. Any fingerprints or smudges on these surfaces will be magnified and lower the quality of the image displayed on the screen.
- The light projecting surface and lens are 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 light projecting surface and projection lens. Do not use fluffy cloths containing oil, water or dust for cleaning.
- When the Fixed-focus lens is removed from the projector, place it with the light projecting surface facing downwards.
Attaching the Lens / Detaching the Lens (continued)

Attaching the Lens

* Unless specified otherwise, the illustrations in these operating instructions show the lens used with the PT-DZ870 projector.

1) **With this lens already passed through the lens mount cover that came with your projector, align the positioning guide with the guide groove on the projector, and insert the lens fully.**

   - There is a red dot at the bottom right end of the positioning guide.

2) **Turn the fixed-focus lens clockwise until you hear a click.**

3) **Attach the lens mount cover to the projector.**

   - Turn the lens mount cover clockwise to fix it in place.

**Attention**

- Gently turn the projection lens counterclockwise to check that it will not fall out.
1) Turn the lens mount cover counterclockwise to detach it from the lens and slide it towards the front end of the lens.

2) Hold down the lens release button while turning the lens counterclockwise to release it.

3) Turn the lens mount cover clockwise to reattach it.

**Attention**
- Attach the supplied lens cap before storing the lens.
The dimensional relationship between the screen and the projector is shown below.

### Dimensional relationship diagram

**Note**
- The indications of this illustration are premised on aligning the projected image size and position to the full screen.
- This illustration is not drawn to scale.

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH</td>
<td>Projected image height</td>
</tr>
<tr>
<td>SW</td>
<td>Projected image width</td>
</tr>
<tr>
<td>SD</td>
<td>Diagonal length of the projected image</td>
</tr>
<tr>
<td>L1</td>
<td>Projection distance (from screen to mirror reflective surface*)</td>
</tr>
<tr>
<td>L2</td>
<td>Screen to lens front end</td>
</tr>
<tr>
<td>L3</td>
<td>Screen to projector front end</td>
</tr>
<tr>
<td>L4</td>
<td>Screen to projector rear end</td>
</tr>
<tr>
<td>A1</td>
<td>Bottom edge of the screen to the top of the projector</td>
</tr>
<tr>
<td>A2</td>
<td>Bottom edge of the screen to the bottom of the projector</td>
</tr>
</tbody>
</table>

* The mirror reflective surface is inside the fixed-focus lens, and is not visible from the outside.

**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.
- Dimension L4 is the distance from the projector rear panel to the screen.
- Dimension A2 is the distance from the bottom edge of the screen to the bottom of the adjustable projector legs (with the legs fully screwed in).

**Attention**
- Dimension L4 is not the distance from the projector rear panel to a wall, but the distance from the projector rear panel to the screen. To prevent obstruction of the intake and exhaust vents, install the projector with a clearance at least 500 mm (19-11/16") from walls and objects.
- When placing the projector in a confined space, a ventilation and/or air conditioning system is required. Exhaust heat may accumulate when the ventilation is not sufficient triggering the protection circuit of the projector.
- Avoid setting up in places which are subject to sudden temperature changes, such as near an air conditioner or lighting equipment (studio lamps, etc.).
Projection relationships (continued)

**Dimensional relationship**

- When using one of PT-RZ120 / PT-RZ970 / PT-RW930 / PT-RX110 / PT-RZ870 / PT-RZ770 / PT-RW730 / PT-RZ660 / PT-RW620 / PT-DZ870 / PT-DW830 / PT-DX100 / PT-DZ780 / PT-DW750 / PT-DX820
  
  For details on projection distance (L1), and A1, A2, L2, L3 and L4 values, refer to "Projected image size and projection distance" or "Projection distance formulas" in the Appendix.

- When using a projector other than one listed above
  Please see "Setting up" in the operating instructions for the projector you are using.

**Keystone distortion correction**

When attaching this lens for use, regardless of the projector model, set up the projector so that the projected image is rectangular and the back of the projector and the screen are parallel. In addition, depending on the projector used, keystone distortion correction may be feasible after setup.

- When using one of PT-RZ120 / PT-RZ970 / PT-RW930 / PT-RX110 / PT-RZ870 / PT-RZ770 / PT-RW730 / PT-RZ660 / PT-RW620 / PT-DZ870
  For keystone distortion in the vertical direction generated within the angle range below, select [MAIN MENU] → [POSITION] → [GEOMETRY] / [GEOMETRY(2D)] → [KEYSTONE] to perform correction.
  
  Keystone distortion in the vertical direction greater than this angle and keystone distortion in the horizontal direction can be corrected but the projected image overall will no longer be in focus.

  Correction feasible angle (α): 0 - 5°

(Side view)

- When using one of PT-DW830 / PT-DX100 / PT-DZ780 / PT-DW750 / PT-DX820
  If keystone distortion in vertical direction or horizontal direction is corrected, the projected image overall will no longer be in focus. Set up the projector so that the projected image is rectangular and the back of the projector and the screen are parallel.

- When using a projector other than one listed above
  Please see "Setting up" in the operating instructions for the projector you are using.
Lens position setup and focus adjustment

Lens position setup

When using PT-RZ120
When moving the lens position to the home position, perform the operation with the following procedure.

1) Turn on the projector to start the projection.
2) Press the <MENU> button to display the [MAIN MENU] screen.
3) Select [PROJECTOR SETUP] in the main menu and then press the <ENTER> button.
4) Select [LENS] in the [PROJECTOR SETUP] menu and then press the <ENTER> button.
   - The [LENS] screen appears.
5) Select [LENS TYPE] on the [LENS] screen and then use the ◄► buttons to select [ET-DLE035].
   - Each press of the ◄► buttons switches the item to [NORMAL] or [ET-DLE035].
6) Select [LENS HOME POSITION] on the [LENS] screen and then press the <ENTER> button.
   - A confirmation screen appears.
7) Use the ◄► buttons to select [OK] and then press the <ENTER> button.
   - [PROGRESS] is displayed on the [HOME POSITION] screen and the projection lens moves to the home position.

Note

- If [LENS TYPE] is mistakenly set to [NORMAL], the projection lens will not move to the correct home position.
Lens position setup and focus adjustment (continued)

When using one of PT-RZ970 / PT-RW930 / PT-RX110 / PT-RZ870 / PT-RZ770 / PT-RW730 / PT-RZ660 / PT-RW620 / PT-DZ780 / PT-DW750 / PT-DX820

When moving the lens position to the lens standard position, perform the operation with the following procedure.

1) Turn on the projector to start the projection.

2) Press the <SHIFT> button on the remote control.
   • The shift adjustment screen appears.

3) Press the <DEFAULT> button on the remote control while the shift adjustment screen is displayed.
   • The [HOME POSITION] screen appears.

4) Use the ◄► buttons to select [ET-DLE030].
   • Each press of the ◄► buttons switches the item to [NORMAL] or [ET-DLE030].

5) Press the <ENTER> button.
   • [PROGRESS] is displayed on the [HOME POSITION] screen and the lens position moves to the lens standard position for ET-DLE035.
When using one of PT-DZ870 / PT-DW830 / PT-DX100
When moving the lens position to the lens standard position, perform the operation with the following procedure.

1) Turn on the projector to start the projection.

2) Press the <MENU> button to display the [MAIN MENU] screen.

3) Select [PROJECTOR SETUP] in the main menu and then press the <ENTER> button.

4) Select [SERVICE PASSWORD] in the [PROJECTOR SETUP] menu and then press the <ENTER> button.

- The [SERVICE PASSWORD] input screen appears.

5) Use the <0> and <3> numeric buttons on the remote control to enter “030” in the [SERVICE PASSWORD] input screen and then press the <ENTER> button.

- The [DLE030 POSITION] screen appears.

6) Press the <ENTER> button on the [DLE030 POSITION] screen.

- [PROGRESS] is displayed on the [DLE030 POSITION] screen and the lens position moves to the standard position for ET-DLE035.

Note

- After returning the lens to the standard projection position, lens shift adjustments are possible within the range where the projector will not interfere with the edges of the projected image.

- If the rear of the projector blocks the bottom edge of the projected image, it may also obscure the view of an On-screen display (OSD) that is positioned at the lower edge of the screen. If this happens, open the [DISPLAY OPTIONS] menu and select [ON-SCREEN DISPLAY] → [OSD POSITION] to change display location so that the whole OSD menu can be seen.
Focus Adjustment Function

After setting the lens position, adjust the focus. The focal balance between the center and periphery of the projected image changes depending on the size of the projected image. The lens is equipped with a focus balance adjustment function for the screen periphery.

- **Adjusting the Focus**

1) Focus the center of the screen by operating the projector unit.

2) Turn the periphery focus ring by hand as shown in the figure to adjust the focus in the periphery of the screen.

3) Again check focus at the center of the screen and use the projector controls to make fine adjustments.

**Note**

- The projected image sizes and scale shown on the periphery focus adjustment ring are an approximate guide.
Specifications

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>F value</strong></td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Focal Length (f)</strong></td>
<td>5.3 mm (7/32&quot;)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>132 mm (5-3/16&quot;)</td>
</tr>
<tr>
<td>Height</td>
<td>102 mm (4-1/32&quot;)</td>
</tr>
<tr>
<td>Depth</td>
<td>311 mm (12-1/4&quot;)</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>Approx. 1.3 kg (2.9 lb)</td>
</tr>
</tbody>
</table>

*1: Excluding protrusions.

Dimensions

(Unit: mm)
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
This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation. By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment. For more information about collection and recycling, please contact your local municipality. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Information on Disposal in other Countries outside the European Union
This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Product Information (for Turkey only)

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