

# Projection Lens

- 取扱説明書 \_\_\_\_\_ JP
- Operating Instructions \_\_\_\_\_ GB
- Mode d'emploi \_\_\_\_\_ FR
- Manual de instrucciones \_\_\_\_\_ ES
- Bedienungsanleitung \_\_\_\_\_ DE
- Istruzioni per l'uso \_\_\_\_\_ IT
- 使用说明书 \_\_\_\_\_ CS
- Инструкция по эксплуатации \_\_\_\_\_ RU

## VPLL-3003

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ソニー株式会社 〒108-0075 東京都港区港南1-7-1

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Before operating the unit, please read this manual thoroughly and retain it for future reference.

This lens is designed for use with the Sony Projector. For details concerning compatible models, consult with qualified Sony personnel.

Attaching the lens may cause fire or injury to the person.  
Users should request qualified Sony representative to attach the lens.

## **For the customers in Europe, Australia and New Zealand**

### **WARNING**

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

## **For the customers in Europe**

This apparatus shall not be used in the residential area.

### **Інформація для споживачів в Україні.**

Обладнання відповідає вимогам:

- Технічного регламенту обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні (постанова КМУ від 03/12/2008 № 1057).

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# Table of Contents

|                                                                           |           |
|---------------------------------------------------------------------------|-----------|
| <b>Precaution .....</b>                                                   | <b>21</b> |
| <b>Checking the Supplied Accessories .....</b>                            | <b>22</b> |
| <b>Attaching the Projection Lens .....</b>                                | <b>22</b> |
| Attaching the feet .....                                                  | 22        |
| Removing the Projection Lens attached to the<br>Projector .....           | 23        |
| Attaching the Optical Filter .....                                        | 23        |
| Removing the default image surface pins .....                             | 24        |
| Attaching the Projection Lens VPLL-3003 .....                             | 24        |
| <b>Adjusting .....</b>                                                    | <b>25</b> |
| Adjustment flow .....                                                     | 25        |
| Preparation .....                                                         | 26        |
| Setting and adjustment of the projector .....                             | 26        |
| Shift adjustment .....                                                    | 28        |
| Focus adjustment .....                                                    | 28        |
| Corner focus adjustment .....                                             | 28        |
| Image surface adjustment .....                                            | 29        |
| Confirmation method of the default position of<br>the image surface ..... | 30        |
| <b>Removing the Projection Lens VPLL-3003 .....</b>                       | <b>31</b> |
| <b>Others .....</b>                                                       | <b>32</b> |
| Specifications .....                                                      | 32        |
| Projection Distance and Lens Shift Range .....                            | 32        |
| Dimensions .....                                                          | 34        |

## Precaution

- Lenses can be scratched easily. When handling lenses, always place them gently on a stable, level surface in a horizontal position.
- Avoid touching the projection window and the lens surface.
- Do not place any object just in front of the projection window that may block the light during projection. If light is blocked, heat may damage the object or the lens of the unit (resulting in deformation, etc.). Use the picture muting function to suspend projection for a short while.
- Be careful not to drop the projection lens.

### Cleaning the lens section

Wipe the projection window and the lens surface gently with a cleaning cloth or a spectacle cloth. Never use solvents such as alcohol, benzene, thinner, acid, alkaline or abrasive detergent, or a chemical cleaning cloth, which may damage the surface of the lens.

#### Note

The projection window is made of glass. If you forcibly push or hit it, it may break and cause an injury.

### Cleaning the cabinet

- To remove dust from the cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide.
- Clean the unit with a cleaning cloth. Wiping with a dirty cloth may scratch the unit.
- Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the cabinet material.

### On condensation

If the room temperature where the projector is installed changes rapidly, or if the projector is moved suddenly from a cold to a warm place, condensation in the projector may occur. As the condensation may cause malfunction, be careful in adjusting temperature settings of the air conditioner. If condensation occurs, leave the projector turned on for about two hours before use.

## Do not place this product close to medical devices

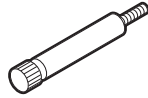
This product (including accessories) has magnet(s) which may interfere with pacemakers, programmable shunt valves for hydrocephalus treatment, or other medical devices. Do not place this product close to persons who use such medical devices. Consult your doctor before using this product if you use any such medical device.

#### Notes

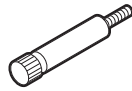
- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
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## Checking the Supplied Accessories

Front foot (2)



Rear foot (2)



Optical filter (1)



Operating Instructions (1)

## Attaching the Projection Lens

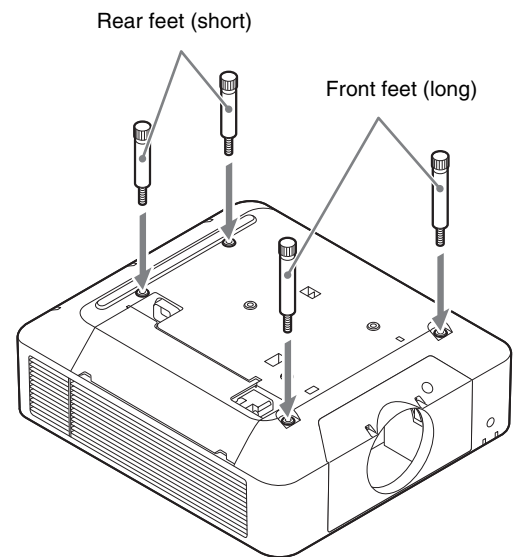
### Attaching the feet

#### Notes

- When the projection lens VPLL-3003 is attached, attach the feet to the projector regardless of the installing condition. You can attach the ceiling mount unit even if the feet are attached.
- Attach the feet to the projector on a flat desk, etc.

- 1 Reverse the projector.
- 2 Attach the 2 front feet (supplied) and the 2 rear feet (supplied) to the projector.

Attach the long feet to the front side and the short feet to the rear side.



When using the ceiling mount unit, attach the base of the ceiling mount unit. For details, see the operating instructions of the ceiling mount unit.

- 3 Setting the projector on a flat surface.

## Removing the Projection Lens attached to the Projector

- 1 Return the projection lens to the center position.

While the projector is turned on, press the LENS SHIFT button on the Remote Commander, then press the RESET button on it. The projection lens returns to the center position.

### Note

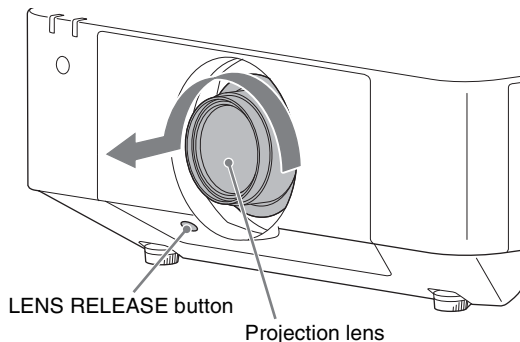
The projection lens cannot be removed unless it has returned to the center position.

- 2 Turn off the projector, then unplug the AC power cord from the wall outlet.

### Caution

**When replacing the lens, your eyes may be damaged if a strong light accidentally gets into your eyes. Before replacing the lens, turn off the projector and then unplug the AC power cord.**

- 3 While pressing and holding down the LENS RELEASE button, rotate the projection lens counterclockwise to pull out the lens straight.

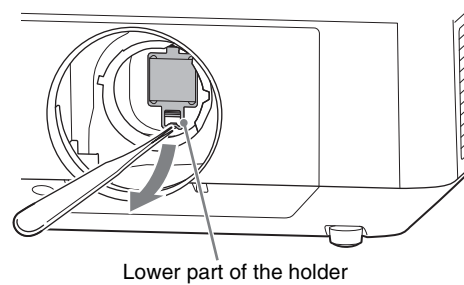


## Attaching the Optical Filter

### Note

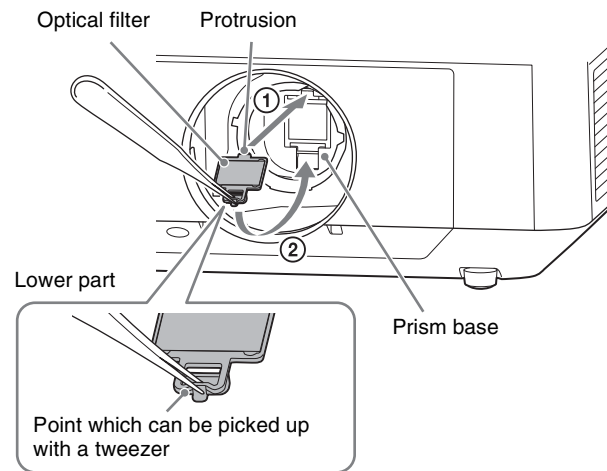
When the projection lens VPLL-3003 is used, attach the optical filter. When the optical filter is not used, the image may be not displayed correctly.

- 1 Hold the lower part of the holder using a tweezer, pull it downwards to the front, and remove the glass attached to the projector.



- 2 Attach the optical filter (supplied) using a tweezer.

Put the protrusion of the upper part of the optical filter into the prism base of the projector (1) and insert the lower part until it locks with a click (2).



### Note

If you do not operate the optical filter correctly during attaching or removing, it may be corrupted.

### Tip

#### Cleaning the Optical Filter

- Before cleaning:  
Be sure that the power is turned off and the light source is turned off.
- Cleaning the optical filter:  
Wipe the filter gently with a tissue paper which is moistened with potable water. Never use solvents such as alcohol, benzene, thinner, acid, alkaline or abrasive detergent, or a chemical cleaning cloth, which may damage the surface of the filter.

## Removing the default image surface pins

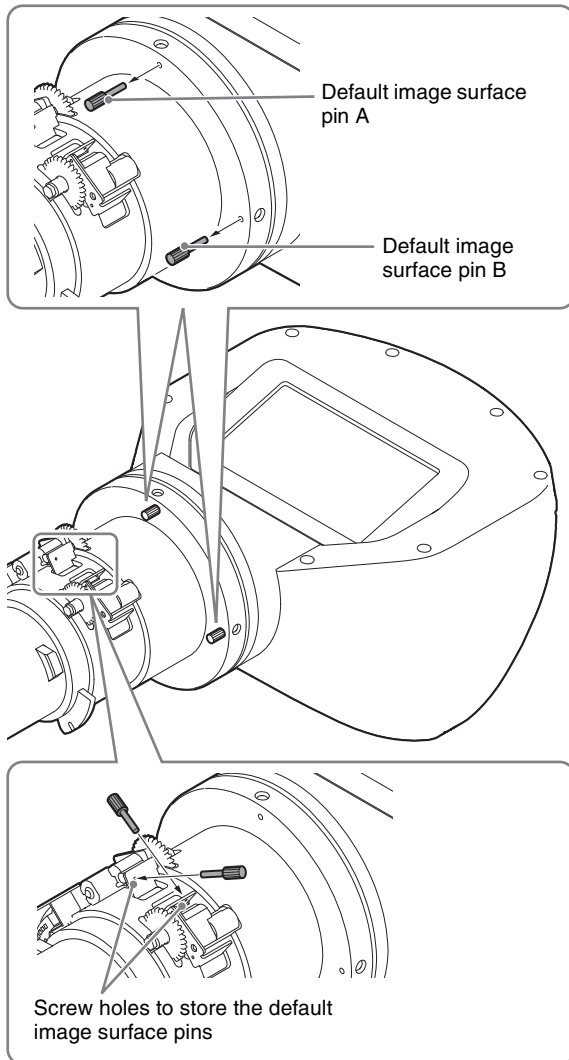
### Note

Make sure to remove the two default image surface pins before use. Otherwise, the projection lens may be damaged.

- 1 Pull the two default image surface pins on the ceiling side and on the side of the projection lens straight forward.

If the pins are too tight to pull out, use tools such as pliers.

You can store the removed pins by putting them into the screw holes near the removed positions. You can confirm the default position of the image surface using the default image surface pins. For details, see “Confirmation method of the default position of the image surface” (page 30).



## Attaching the Projection Lens VPLL-3003

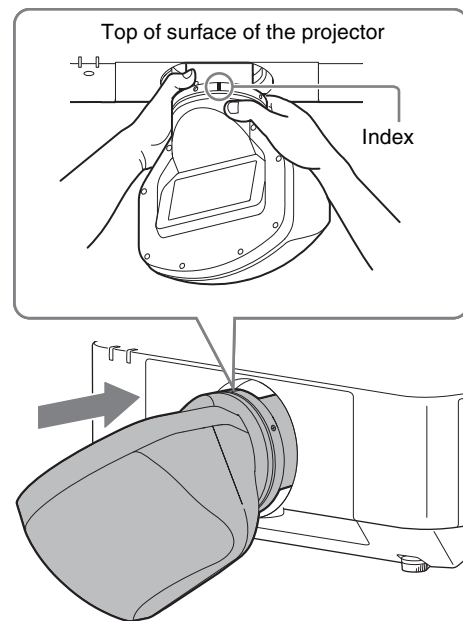
### Notes

- When attaching the projection lens, put the projector on the floor.
- When attaching the projection lens, do not press the LENS RELEASE button.

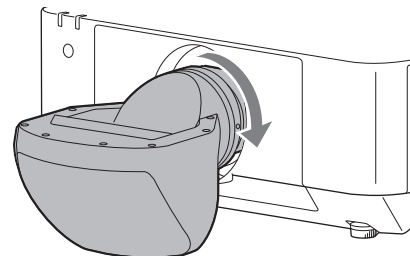
- 1 Fully insert the projection lens with the index on the lens facing toward the top surface of the projector.

### Note

When attaching the projection lens, carry it grasped with both hands as shown in the illustration.

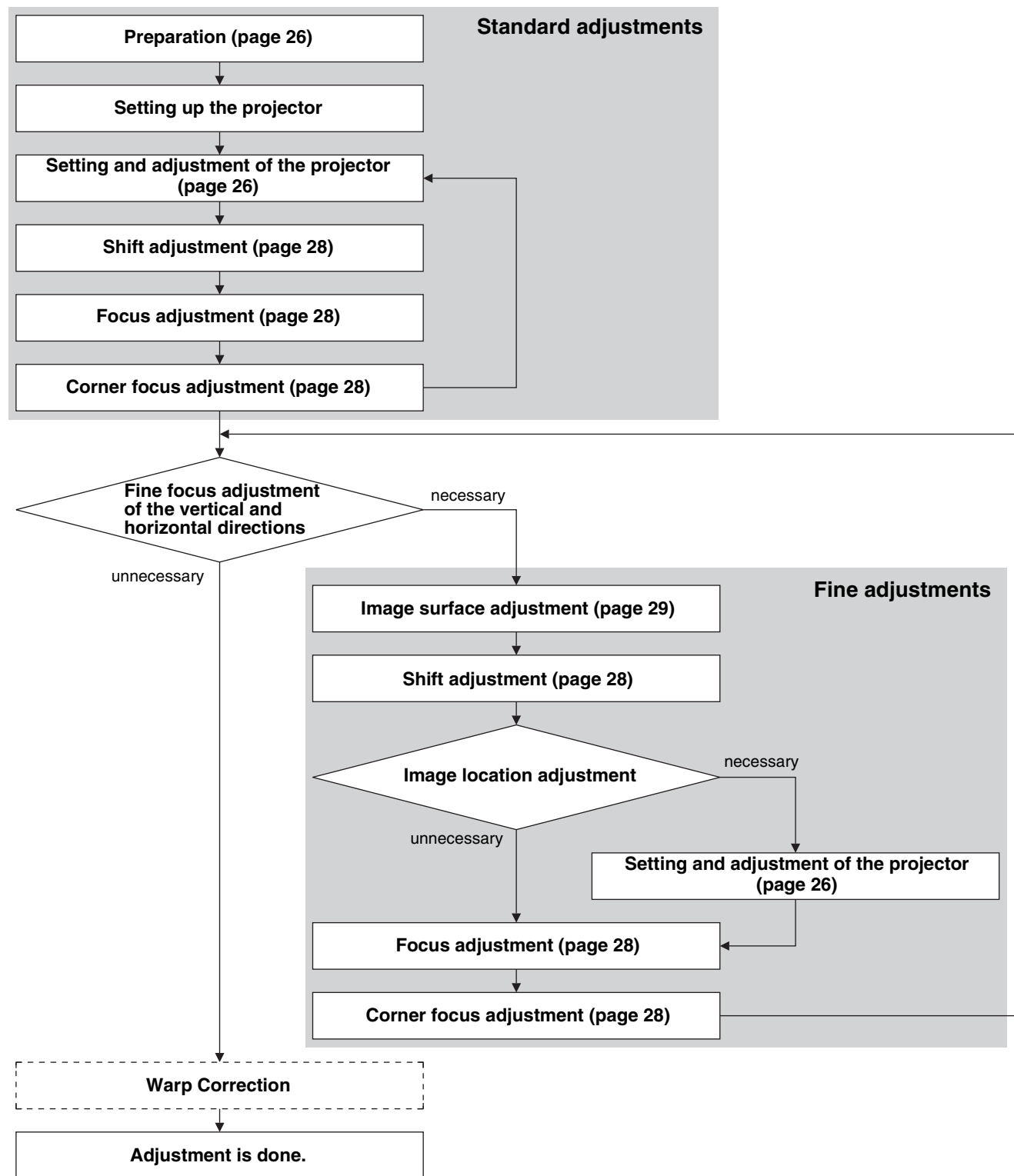


- 2 Rotate the lens clockwise until it clicks.



# Adjusting

## Adjustment flow



*For the warp correction, see the operating instruction of the projector.*

## Preparation

### 1 Turn on the projector.

The projection lens moves automatically to the initial position.

#### Note

When the projection lens moves to the initial position, make sure that the lens does not strike anything.

### 2 Move the shift's vertical direction close to the center.

Press the SHIFT button on the Remote Commander or the control panel of the projector, and adjust with  $\uparrow/\downarrow$ .

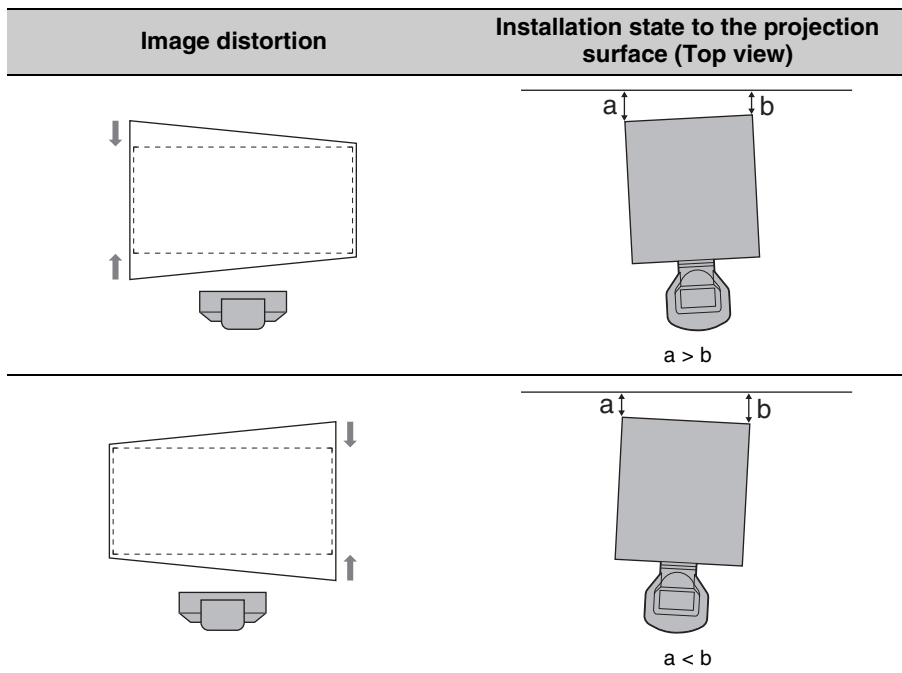
#### Notes

- Set the image inversion of the projector so that the top and bottom, left and right of the image is projected correctly depending on the projection environment.
- The initial shift position of the projection lens is the top shift position of the suspended condition and the bottom shift position of the floor position condition. Before setting the projector, the shift should be near the center for the fine adjustment of the vertical direction.

## Setting and adjustment of the projector

### 1 Check if the upper side and lower side of the picture are parallel.

If not, install the projector in a position parallel to the projection surface ( $a=b$ ).

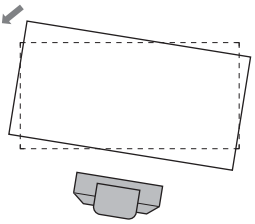
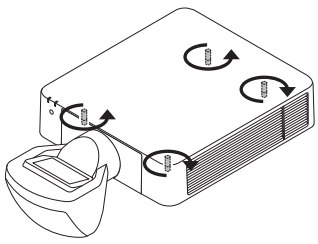
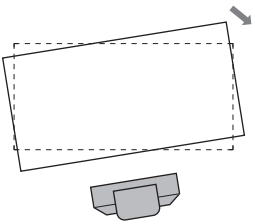
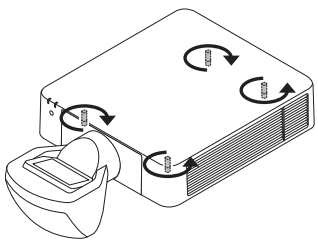


## 2 Check if the lower side of the picture is horizontal.

When the projector is not positioned horizontally, adjust the ceiling mount unit or feet (adjustable) so that the projector is positioned horizontally.

For details concerning the adjusting of the ceiling mount unit, see the operating instructions of the ceiling mount unit.

For details concerning feet adjustment, see page 28.

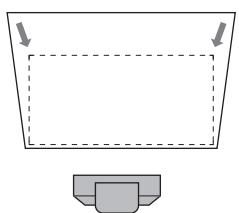
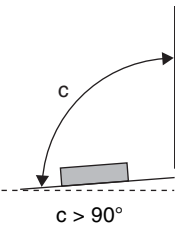
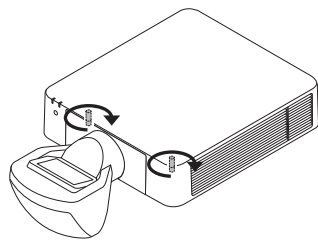
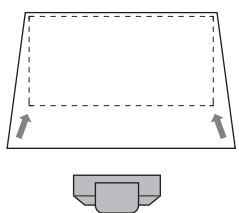
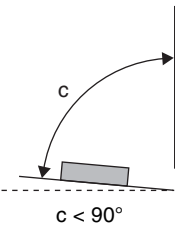
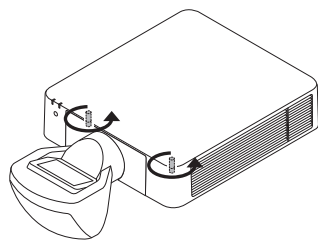
| Image distortion                                                                  | Feet adjustment                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |
|  |  |

## 3 Check if the left side and right side of the picture are vertical.

When the projector is not positioned vertically, adjust the ceiling mount unit or feet (adjustable) so that the projector is positioned vertically.

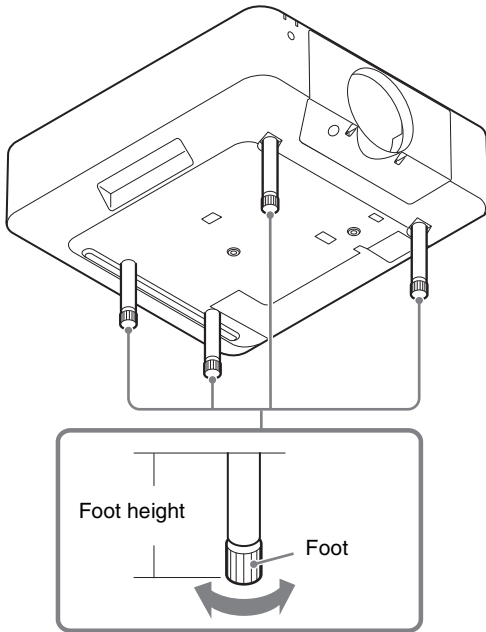
For details concerning the adjusting of the ceiling mount unit, see the operating instructions of the ceiling mount unit.

For details concerning feet adjustment, see page 28.

| Image distortion                                                                    | Installation state to the projection surface (Side view)                            | Feet adjustment                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
|  |  |  |

## Adjusting the feet

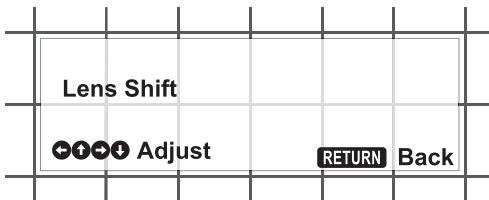
You can adjust the height by using the four feet at the bottom of the projector.



- 1 Turn the feet bottom to the right when viewed from the projector top and loosen it.

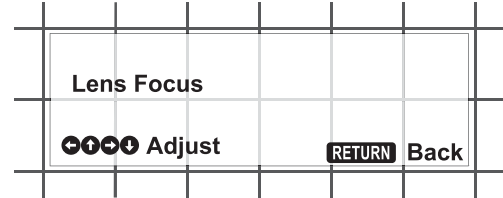
## Shift adjustment

- 1 Press the PATTERN button on the Remote Commander.
- 2 Press the SHIFT button on the Remote Commander or the control panel of the projector, and adjust with  $\uparrow/\downarrow/\leftarrow/\rightarrow$ .



## Focus adjustment

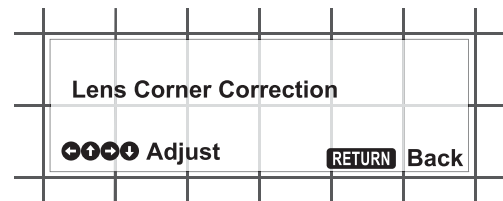
- 1 Adjust the focus by watching the screen center.  
Press the FOCUS button on the Remote Commander or the control panel of the projector once, and adjust with  $\uparrow/\downarrow/\leftarrow/\rightarrow$ .



## Corner focus adjustment

Normal focus adjustment and corner focus adjustment are also necessary when the projection lens VPLL-3003 is attached.

- 1 Adjust the focus while watching the corner of the screen.  
Press the FOCUS button on the Remote Commander or the control panel of the projector twice, and adjust with  $\uparrow/\downarrow/\leftarrow/\rightarrow$ .



## Image surface adjustment

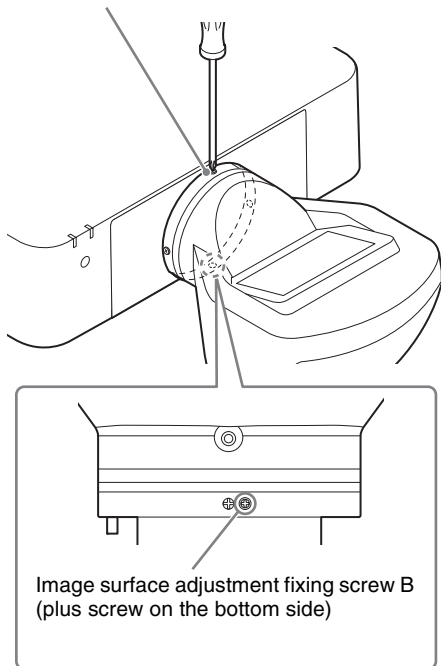
Normally, perform the procedures for the standard adjustments (page 26 to 28). In addition, when the fine adjustments are necessary, perform the procedures below.

When the image surface adjustment screws are turned, the focus on the projection surface can be adjusted by adjusting the inclinations of top and bottom or left and right of the image surface.

To enhance the accuracy of the image surface adjustment, repeat the adjustment several times.

### Adjustment of the vertical image surface

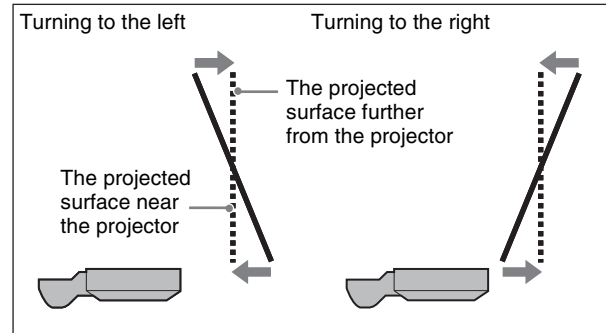
Image surface adjustment screw A  
(plus screw on the ceiling side)



- 1 Loosen the image surface adjustment fixing screw B by turning it to the left several times.
- 2 Adjust the focus of the projection lens at the projected surface near the projector using the button on the remote control or the projector.
- 3 Check the projected surface further from the projector, and confirm if the focus position is in front of the projected surface or at the far back of the projected surface.
- 4 Adjust the position of the image surface to adjust the focus further from the projector. When the image surface confirmed in step 3 is in front of the

projected surface, turn the image surface adjustment screw A to the left. When the image surface confirmed in step 3 is at the far back of the projected surface, turn the image surface adjustment screw A to the right.

Example of adjustment using the image surface adjustment screw A (the plus screw on the ceiling side)

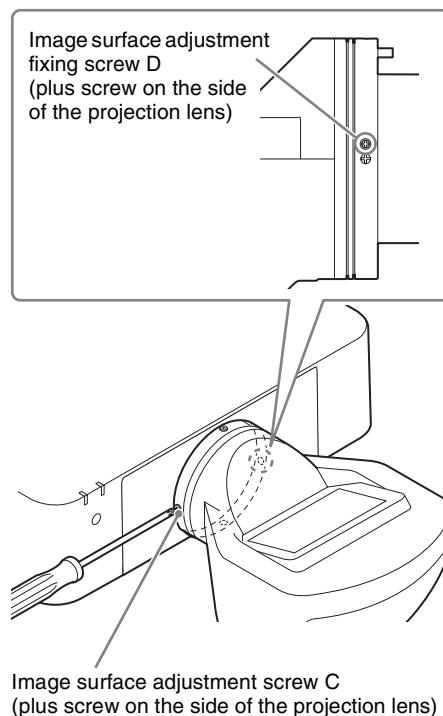


..... Projected surface (screen)  
— Image surface

- 5 Adjust the position of the image surface by repeating steps 2 to 4 so that the focus can be adjusted in all positions.
- 6 When the adjustment is finished, turn the image surface adjustment fixing screw B to the right and tighten the screw until it is fixed.

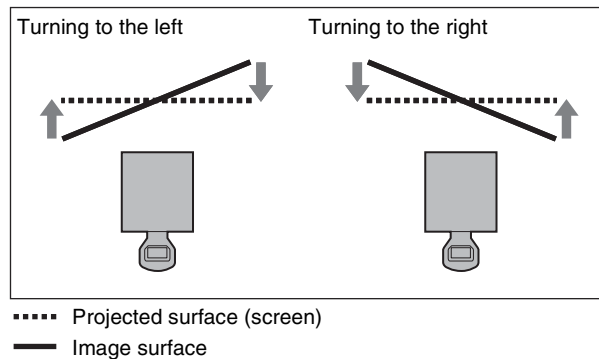
### Adjustment of the horizontal image surface

Image surface adjustment  
fixing screw D  
(plus screw on the side  
of the projection lens)



- 1 Loosen the image surface adjustment fixing screw D by turning it to the left several times.
- 2 Adjust the focus of the projection lens at the left of the projected surface (or at the projected surface near the image surface adjustment screw C) using the button on the remote control or the projector.
- 3 Check the right of the projected surface (or at the projected surface further from the image surface adjustment screw C), and confirm if the focus position is in front of the projected surface or at the far back of the projected surface.
- 4 Adjust the position of the image surface to adjust the focus on the right of the projected surface. When the image surface confirmed in step 3 is in front of the projected surface, turn the image surface adjustment screw C to the right. When the image surface confirmed in step 3 is at the far back of the projected surface, turn the image surface adjustment screw C to the left.

Example of adjustment using the image surface adjustment screw C (the plus screw on the side of the projection lens)



- 5 Adjust the position of the image surface by repeating steps 2 to 4 so that the focus can be adjusted in all positions.
- 6 When the adjustment is finished, turn the image surface adjustment fixing screw D to the right and tighten the screw until it is fixed.

## Confirmation method of the default position of the image surface

For the positions of the default image surface pin A and B, see the illustration on page 24. For the positions of the image surface adjustment screw A and C, and image surface adjustment fixing screw B and D, see the illustrations on page 29.

## Confirmation method of the default position of the vertical image surface

- 1 Loosen the image surface adjustment fixing screw B by turning it to the left several times.
- 2 Turn the image surface adjustment screw A to the right until the default image surface pin A of the ceiling side can be inserted.
- 3 Insert the default image surface pin A of the ceiling side straightly as far as it will go.  
 If the pin is not inserted fully, repeat steps 1 and 2.
- 4 Turn the image surface adjustment screw A to the left until the default image surface pin A is fixed firmly.  
 You can confirm the default position of the image surface.

## Confirmation method of the default position of the horizontal image surface

- 1 Loosen the image surface adjustment fixing screw D by turning it to the left several times.
- 2 Turn the image surface adjustment screw C to the right until the default image surface pin B of the side of the projection lens can be inserted.
- 3 Insert the default image surface pin B of the side of the projection lens straightly as far as it will go.  
 If the pin is not inserted fully, repeat steps 1 and 2.
- 4 Turn the image surface adjustment screw C to the left until the default image surface pin B is fixed firmly.  
 You can confirm the default position of the image surface.

### Notes

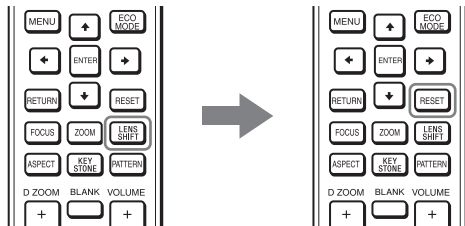
- If the image surface adjustment fixing screws are loosen too much, the screws may fall and be lost.
- Remove the default image surface pins before use. For details, see “Removing the default image surface pins” (page 24).

# Removing the Projection Lens VPLL-3003

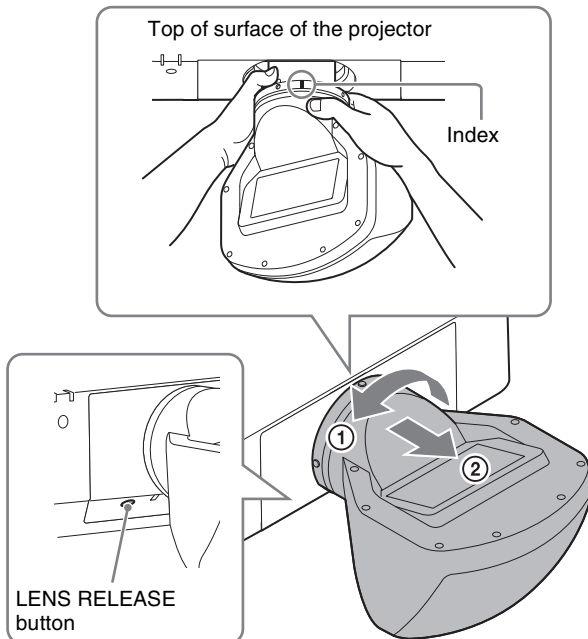
- The projection lens cannot be removed unless it has returned to the center position.
- Do not remove the AC power cord while the power is shutting down because the lens moves to the center position just before the power is shut down.

## 1 Return the projection lens to the center position.

While the projector is turned on, press the LENS SHIFT button on the Remote Commander, then press the RESET button on it. The projection lens returns to the center position.



## 2 While pressing and holding down the LENS RELEASE button, rotate the projection lens counterclockwise (①) to pull out the lens straight (②).



### Note

When removing the projection lens, carry it grasped with both hands as shown in the illustration.

### Note

When removing the projection lens, put the projector down on the floor.

# Others

## Specifications

Maximum dimensions (W/H/D) Approx. 229 mm × 193.7 mm × 424.7 mm  
(9 <sup>1</sup>/<sub>32</sub> inches × 7 <sup>5</sup>/<sub>8</sub> inches × 16 <sup>23</sup>/<sub>32</sub> inches)

Mass Approx. 2.9 kg (6.4 lb)

### Note

The external form measurement and the mass are approximate values.

Design and specifications are subject to change without notice.

## Projection Distance and Lens Shift Range

### Projection distance

| Projection image size |                                                                                    | L1                                        | L2                                        | L3                                        | L4                                         | L5                                        | H1                                        | H2                                        | H3                                        | H4                                        |
|-----------------------|------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Diagonal              | Width × Height                                                                     |                                           |                                           |                                           |                                            |                                           |                                           |                                           |                                           |                                           |
| 80" (2.03 m)          | 1.72 × 1.08<br>(67 <sup>7</sup> / <sub>8</sub> × 42 <sup>3</sup> / <sub>8</sub> )  | 0.55<br>(21 <sup>1</sup> / <sub>2</sub> ) | 0.66<br>(26 <sup>1</sup> / <sub>8</sub> ) | 0.41<br>(16 <sup>1</sup> / <sub>8</sub> ) | -0.11<br>(-4 <sup>1</sup> / <sub>8</sub> ) | 0.20<br>(7 <sup>7</sup> / <sub>8</sub> )  | 0.30<br>(12)                              | 0.36<br>(14)                              | 0.48<br>(18 <sup>3</sup> / <sub>4</sub> ) | 0.54<br>(21 <sup>1</sup> / <sub>4</sub> ) |
| 100" (2.54 m)         | 2.15 × 1.35<br>(84 <sup>3</sup> / <sub>4</sub> × 53)                               | 0.69<br>(27 <sup>1</sup> / <sub>8</sub> ) | 0.81<br>(31 <sup>3</sup> / <sub>4</sub> ) | 0.55<br>(21 <sup>5</sup> / <sub>8</sub> ) | 0.03<br>(1 <sup>3</sup> / <sub>8</sub> )   | 0.34<br>(13 <sup>1</sup> / <sub>2</sub> ) | 0.40<br>(15 <sup>3</sup> / <sub>4</sub> ) | 0.45<br>(17 <sup>3</sup> / <sub>4</sub> ) | 0.57<br>(22 <sup>1</sup> / <sub>2</sub> ) | 0.63<br>(24 <sup>7</sup> / <sub>8</sub> ) |
| 120" (3.05 m)         | 2.58 × 1.62<br>(101 <sup>3</sup> / <sub>4</sub> × 63 <sup>5</sup> / <sub>8</sub> ) | 0.83<br>(32 <sup>5</sup> / <sub>8</sub> ) | 0.95<br>(37 <sup>1</sup> / <sub>4</sub> ) | 0.69<br>(27 <sup>1</sup> / <sub>4</sub> ) | 0.18<br>(6 <sup>7</sup> / <sub>8</sub> )   | 0.48<br>(19)                              | 0.49<br>(19 <sup>3</sup> / <sub>8</sub> ) | 0.54<br>(21 <sup>3</sup> / <sub>8</sub> ) | 0.66<br>(26 <sup>1</sup> / <sub>8</sub> ) | 0.73<br>(28 <sup>5</sup> / <sub>8</sub> ) |
| 150" (3.81 m)         | 3.23 × 2.02<br>(127 <sup>1</sup> / <sub>4</sub> × 79 <sup>1</sup> / <sub>2</sub> ) | 1.04<br>(41)                              | 1.16<br>(45 <sup>5</sup> / <sub>8</sub> ) | 0.90<br>(35 <sup>1</sup> / <sub>2</sub> ) | 0.39<br>(15 <sup>1</sup> / <sub>4</sub> )  | 0.69<br>(27 <sup>3</sup> / <sub>8</sub> ) | 0.63<br>(25)                              | 0.69<br>(27)                              | 0.81<br>(31 <sup>3</sup> / <sub>4</sub> ) | 0.87<br>(34 <sup>1</sup> / <sub>8</sub> ) |
| 200" (5.08 m)         | 4.31 × 2.69<br>(169 <sup>5</sup> / <sub>8</sub> × 106)                             | 1.39<br>(54 <sup>7</sup> / <sub>8</sub> ) | 1.51<br>(59 <sup>1</sup> / <sub>2</sub> ) | 1.25<br>(49 <sup>3</sup> / <sub>8</sub> ) | 0.74<br>(29 <sup>1</sup> / <sub>8</sub> )  | 1.05<br>(41 <sup>1</sup> / <sub>4</sub> ) | 0.87<br>(34 <sup>1</sup> / <sub>4</sub> ) | 0.92<br>(36 <sup>1</sup> / <sub>4</sub> ) | 1.04<br>(41)                              | 1.10<br>(43 <sup>1</sup> / <sub>2</sub> ) |
| 300" (7.62 m)         | 6.46 × 4.04<br>(254 <sup>3</sup> / <sub>8</sub> × 159)                             | 2.10<br>(82 <sup>5</sup> / <sub>8</sub> ) | 2.22<br>(87 <sup>1</sup> / <sub>4</sub> ) | 1.96<br>(77 <sup>1</sup> / <sub>8</sub> ) | 1.44<br>(56 <sup>7</sup> / <sub>8</sub> )  | 1.75<br>(69)                              | 1.34<br>(52 <sup>7</sup> / <sub>8</sub> ) | 1.39<br>(54 <sup>3</sup> / <sub>4</sub> ) | 1.51<br>(59 <sup>1</sup> / <sub>2</sub> ) | 1.58<br>(62)                              |

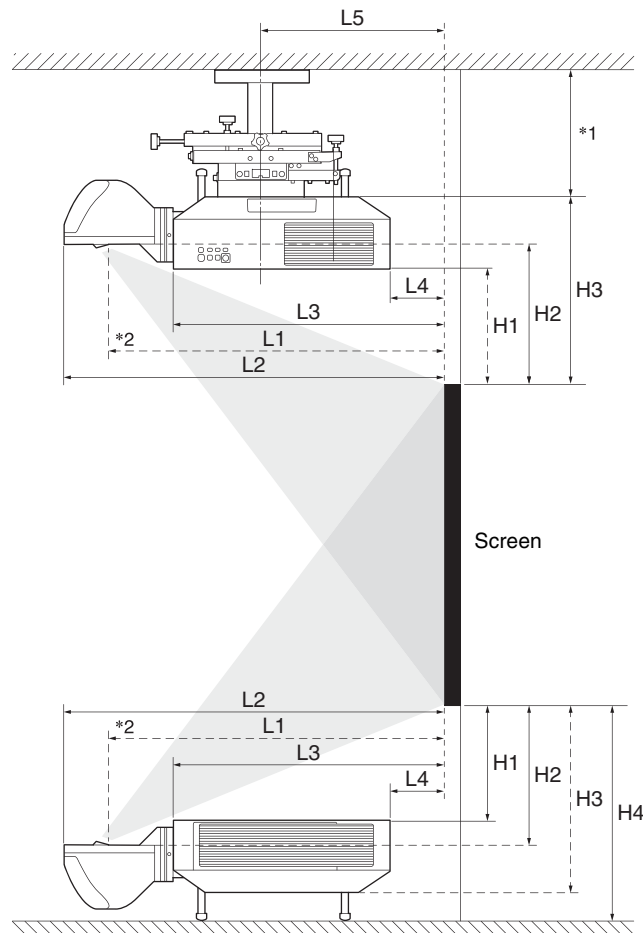
Unit: m (inches)

## Projection distance formula

D: Projected image size (Diagonal)

|    |                                                                                 |
|----|---------------------------------------------------------------------------------|
| L1 | $L1 = 0.007053 \times D - 0.016810$<br>( $L1 = 0.277674 \times D - 0.661950$ )  |
| L2 | $L2 = 0.007048 \times D + 0.101010$<br>( $L2 = 0.277471 \times D + 3.976810$ )  |
| L3 | $L3 = 0.007048 \times D - 0.154990$<br>( $L3 = 0.277471 \times D - 6.101930$ )  |
| L4 | $L4 = 0.007048 \times D - 0.669990$<br>( $L4 = 0.277471 \times D - 26.377520$ ) |
| L5 | $L5 = 0.007048 \times D - 0.363290$<br>( $L5 = 0.277471 \times D - 14.302710$ ) |
| H1 | $H1 = 0.004712 \times D - 0.072000$<br>( $H1 = 0.185500 \times D - 2.834650$ )  |
| H2 | $H2 = 0.004712 \times D - 0.021670$<br>( $H2 = 0.185500 \times D - 0.853150$ )  |
| H3 | $H3 = 0.004712 \times D + 0.099000$<br>( $H3 = 0.185500 \times D + 3.897640$ )  |
| H4 | $H4 = 0.004712 \times D + 0.161500$<br>( $H4 = 0.185500 \times D + 6.358270$ )  |

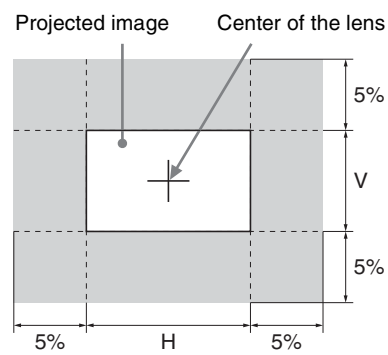
Unit: m (inches)



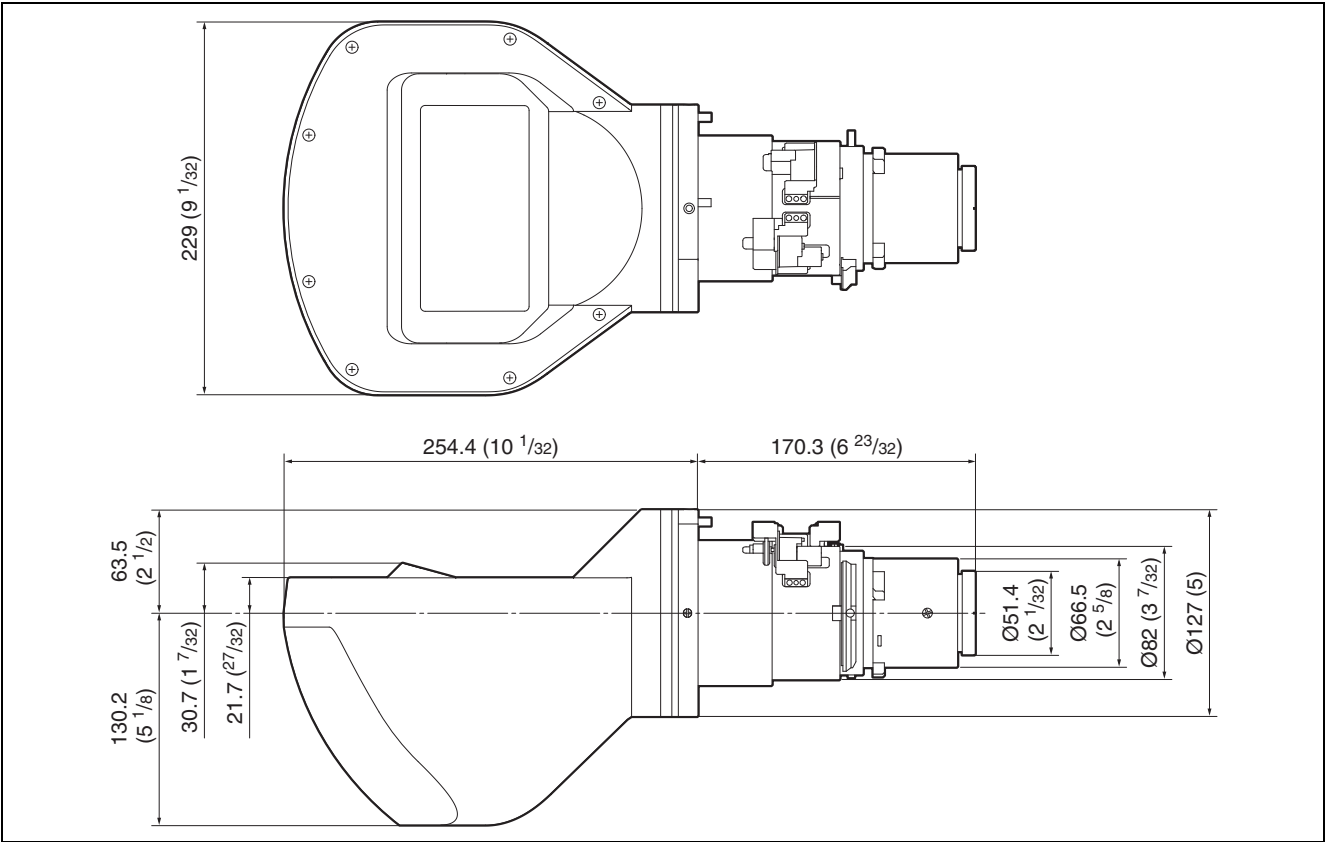
\*1 See the operating instructions of the ceiling mount unit.

\*2 Center of the cover glass

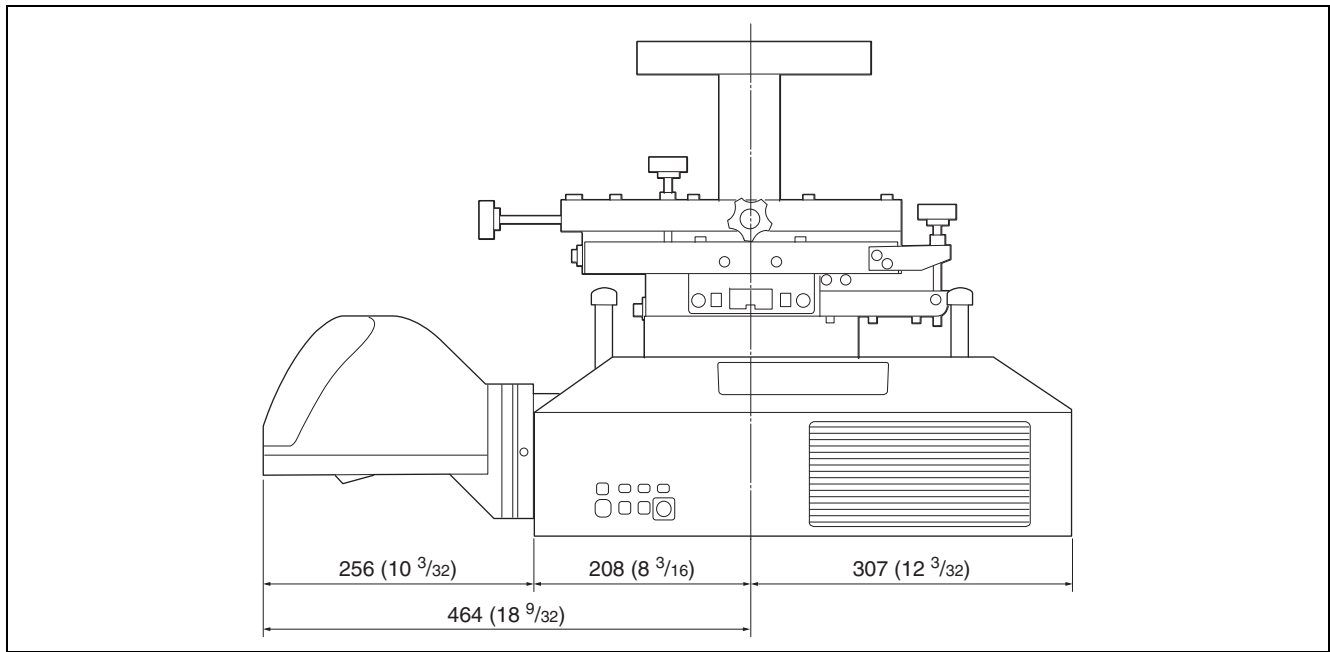
# Lens shift range



# Dimensions



Unit: mm (inches)



Unit: mm (inches)

#### Note

For the projector that uses lamps, a space is required behind the projector or you cannot change the lamp.