

Installing the GS UST 0.37-0.4:1 lens

When using the GS UST 0.37-0.4:1 lens, the GS UST 0.37-0.4:1 adapter must be used to stabilize the lens when used with GS-Series projectors.

Due to the weight of the GS UST 0.37-0.4:1 (ultra short throw) lens, it must always be used with the adapter. Follow the instructions in this document to install the lens support bracket for the GS UST lens with GS-Series projectors.

Affected products

The following products are affected:

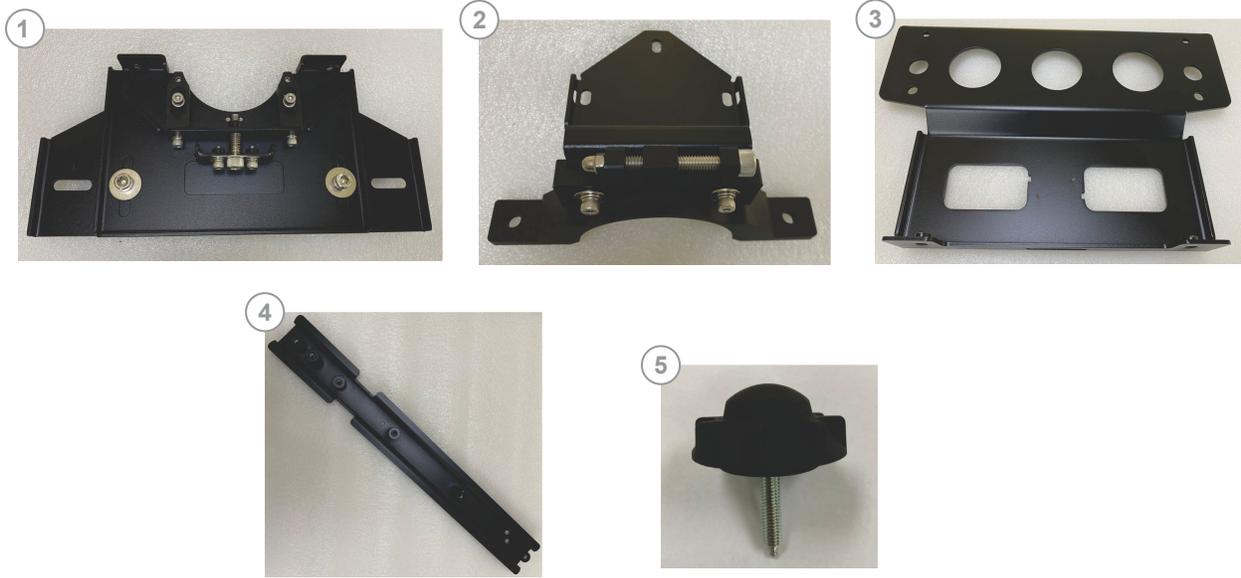
- Christie DWU880 (A)-GS
- Christie DWU1100(A)-GS
- Christie DWU1400(A)-GS

Required components

The following components are required to complete the upgrade.

Lens Support kit (P/N: 900-300388-01) includes:

- GS UST 0.37-0.4:1 lens (P/N: 140-153100-XX)
- GS UST 0.37-0.4:1 ultra short throw (UST) lens adapter plate (P/N: 140-156103-XX). Quantity 1 piece.
- Screw socket head W/SF M4 x 10. Quantity 2 pieces.
- Screw socket head W/SF M6 x 12. Quantity 4 pieces.
- Screw socket head M6 x 22. Quantity 8 pieces.
- Spring washer M6. Quantity 8 pieces.
- Washer 19 x 6.5 x 1.3 Ni. Quantity 2 pieces.
- Washer 13 X 6.2 x 1.0. Quantity 6 pieces.



1	Support bracket
2	Top support bracket
3	Support base
4	Support beam
5	Rubber foot

⑥ Screw Packs



Item	Image	Description	Usage
I		SCREW SOCKET HEAD W/SF M4*L10	2
II		SCREW SOCKET HEAD W/SF M6*L12	4
III		SCREW SOCKET HEAD M6*L22	8
IV		SPRING WASHER M6	8
V		WASHER 19*6.5*1.3 Ni	2
VI		WASHER 13*6.2*1.0	6



Required tools

The following tools are required for installing the lens support.

- 3 mm hex key
- 5 mm hex key

Lens calibration

Perform lens calibration before installing the lens support bracket.



This feature is not available under the following conditions:

- Lens Calibration is in progress or has failed.
- Lens Lock is engaged.
- AF (Auto Focus), AC (Auto Calibration), ACU (Auto color uniformity) calibration processes are ongoing.
- UST Mode is ON.

1. Power on the projector.
2. If you have a non-ultra short throw lens (standard lens) installed, perform a lens calibration by selecting **Menu > Configuration > Lens Settings > Lens Calibration**.
3. If you do not have a non-ultra short throw lens, follow either step 4 or 5 to complete the lens calibration.
4. Connect to the projector using RS232 and perform a lens calibration by sending the serial API command **LCB+HOME1** to the projector.
5. To configure the projector settings using a web user interface, follow these steps.
 - a) Connect to the projector using Ethernet to open the web user interface.
Ensure the projector firmware version is above V1.6.0. The default IP address is 192.168.0.100.
 - b) Navigate to the **Configuration** menu.
 - c) Set the **Ceiling Mount** option to **ON** for table top, or **OFF** for ceiling mount.
 - d) Enable **Rear Projection**.
 - e) Place the ultra short throw lens to the correct vertical position of the projector with respect to the screen.
 - f) Select the **Special Location** to **Top, Center, or Bottom**.
 - g) Select **Apply**.
6. Power off the projector.

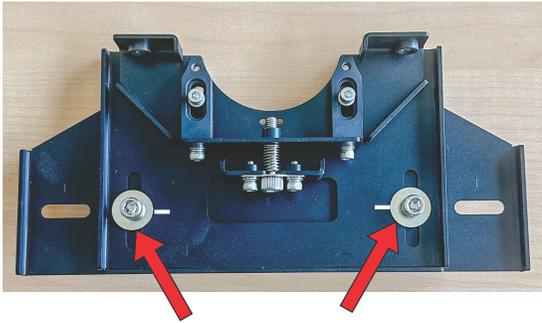
Installing the support bracket

To provide additional support for the GS ultra short throw lens (GS UST), install the support bracket.



If you have purchased a new projector with the GS UST lens and have not performed any lens related operation, for example lens shift or lens calibration, the new projector remains in the default setting for lens position. Do not perform a lens calibration.

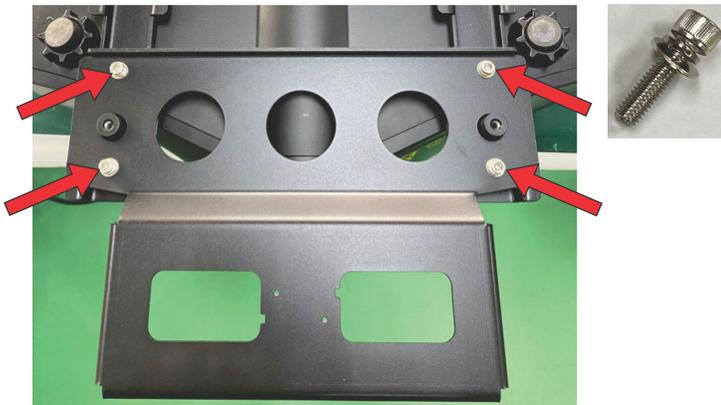
1. Power off the projector.
2. Remove the lens, if installed.
3. Before mounting the bracket, using a 5 mm hex key, align the mark lines as shown below.



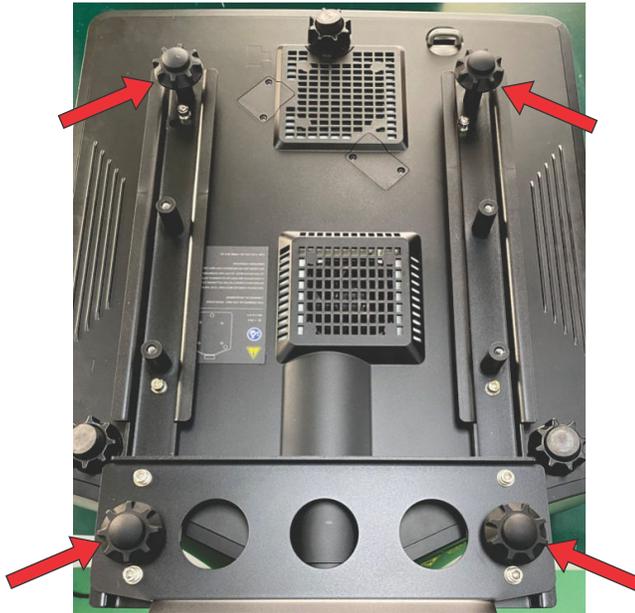
4. Keep the two screws approximately one to two turns from fully tighten.
5. Flip the projector onto its top side.
6. Secure the two support beams to the projector with four M6 x 12 screws with a 5 mm hex key.



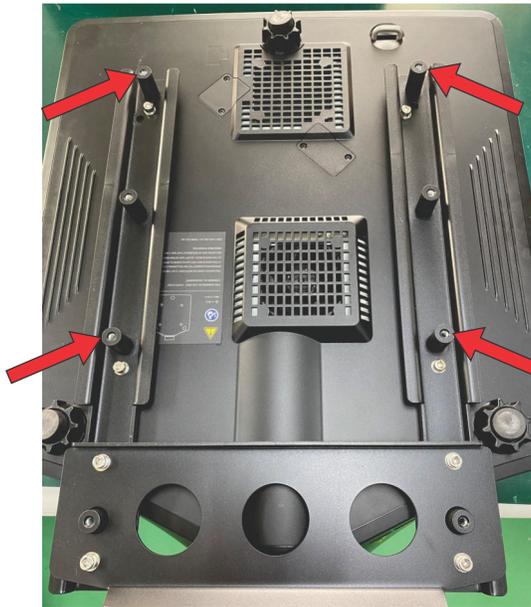
7. Secure the support base on the support beams with four M6 screws, lock washers, and washers with a 5 mm hex key.



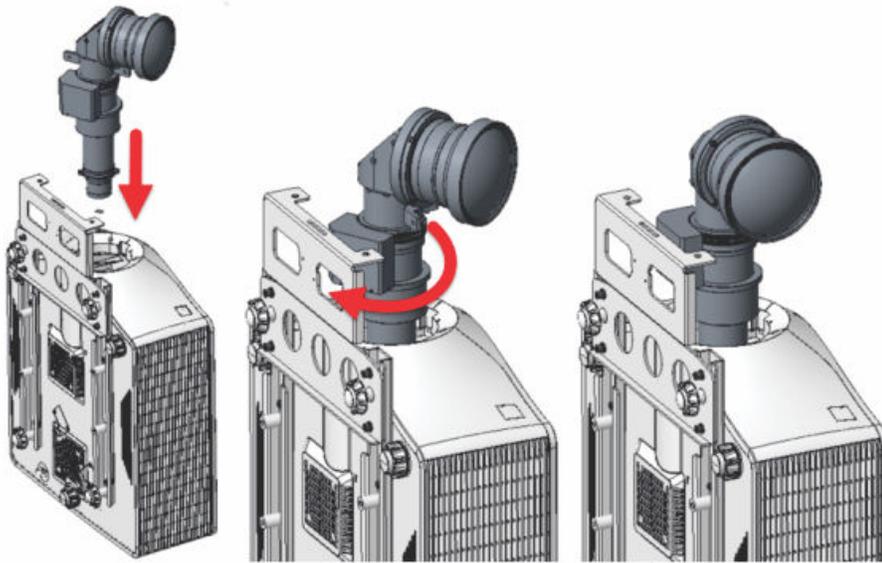
8. Select the feet installation configuration.
 - Feet installation for table top:



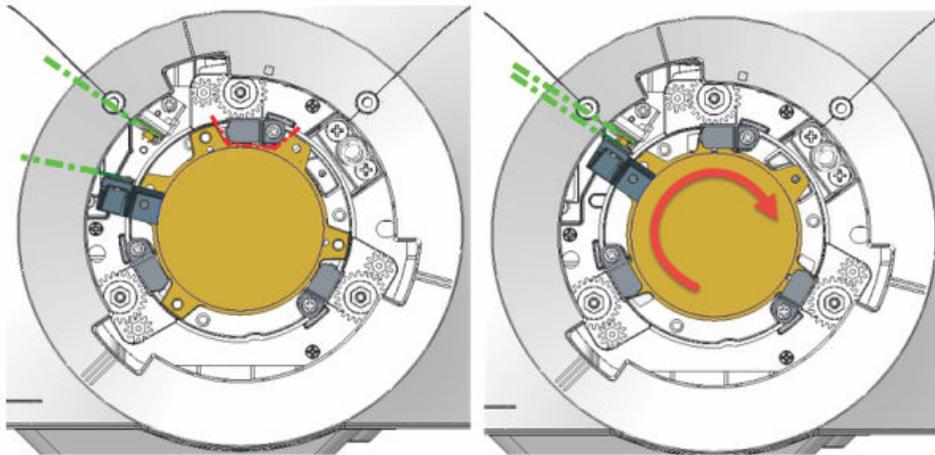
- Feet installation for ceiling mount or a system frame:



9. Flip the projector so the lens opening faces upward.
10. Remove the two lens caps from the GS UST lens.
11. Install the GS UST lens into the projector.



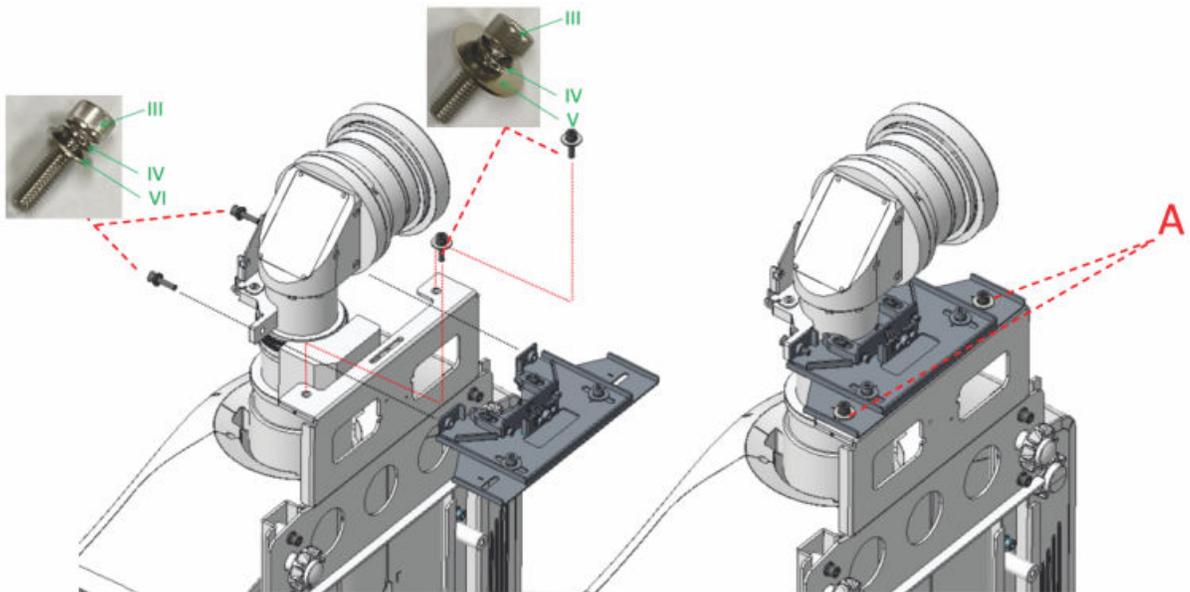
12. Place the lens with the lens connector aligned with the red notch position



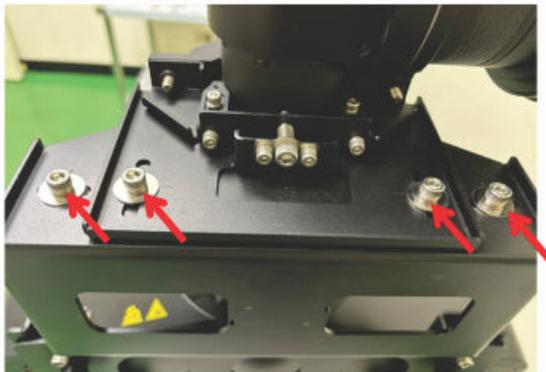
13. Install the support bracket onto the support base.

14. Fasten the two M6 screws and washers with a 5 mm hex key.

Do not tighten the screws fully. The H shift screws can be left loose to further tweak horizontal shift after installation, and keep the vertical shift screws fixed.



15. Shift the support bracket to fit the GS UST lens neck.
16. Install the top support bracket over the GS UST lens neck.
17. Fasten the two M6 screw, and washers shown by the red arrows in the image below.

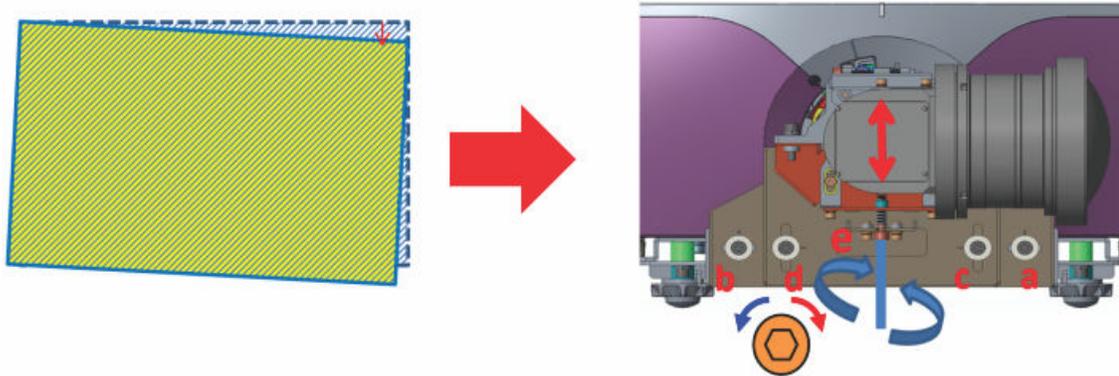


Adjusting image tilt and roll

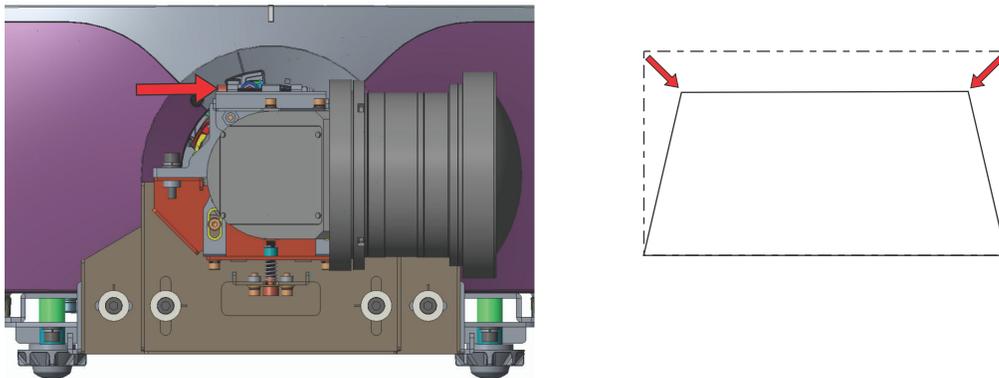
To adjust the image tilt and roll, fine-tune the lens position.

1. Power on the projector.
2. Verify screws A, B, C, and D are locked.
3. To fine-tune the image tilt-position, adjust the M6 screw located below the support bracket with a 5 mm hex key.
 - a) For table top installation, turning the M6 screw "e" left will move the image up. Turning the screw right will move the image down.
 - b) For ceiling mount installation, turning the M6 screw left will move the image down. Turning the screw right will move the image up.

The suggested value for fine tune adjustment is 10 pixels when out of alignment.

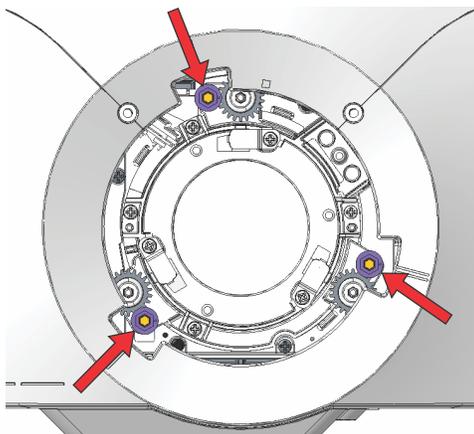


4. To fine-tune the image keystone-position, adjust the M6 screw "f" located on the top bracket with a 5 mm hex key.



5. Adjust the boresight with a 4 mm hex key if required.

For more information, see the *Christie GS Series User Manual* (P/N: 020-001908-XX) (<https://www.christiedigital.com/products/projectors/all-projectors/gs-series/Christie-DWU880-GS/overview>)



Technical support

Technical support for Christie Enterprise products is available at:

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