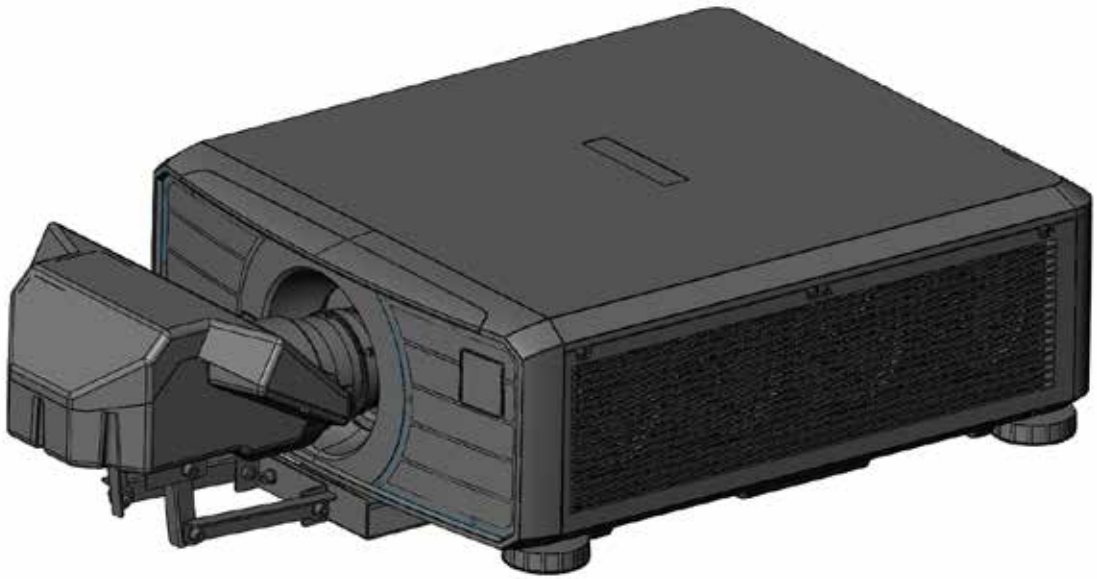
DIGITAL PROJECTION

A Delta Associate Company

0.38:1 ULTRA SHORT THROW LENS

Compatible with E-Vision Laser 7500 / Laser 8500 / E-Vision 9100 Laser 10K / Laser 13000 WUXGA / Laser 15000 WUXGA Laser 4K-UHD / Laser 11000 4K-UHD

INSTALLATION GUIDE



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118-200C

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Overview

Product revision

Because we at Digital Projection continually strive to improve our products, we may change specifications and designs, and add new features without prior notice.

Legal notices

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Notes

Specifications

PART NUMBER 117-341

Product compatibility

The ultra short throw lens is designed for use on the following E-Vision projectors:

16:10

- E-Vision 6500 WXGA
- E-Vision 6800 WUXGA
- E-Vision 7500 WXGA
- E-Vision 7500 WUXGA
- E-Vision 8000 WUXGA
- E-Vision Laser 7500 WUXGA
- E-Vision Laser 8500 WUXGA
- E-Vision 9100 WUXGA
- E-Vision Laser 10K WUXGA
- E-Vision Laser 13000 WUXGA
- E-Vision Laser 15000 WUXGA

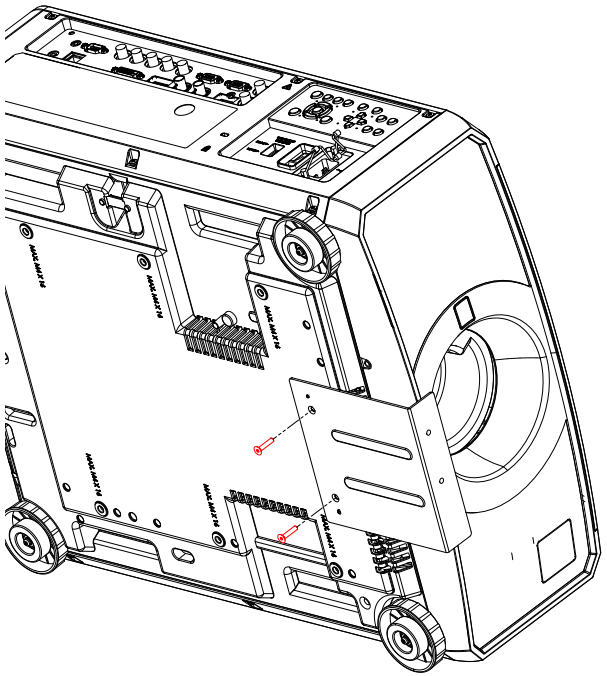
16:9

- E-Vision Laser 4K-UHD
- E-Vision Laser 11000 4K-UHD

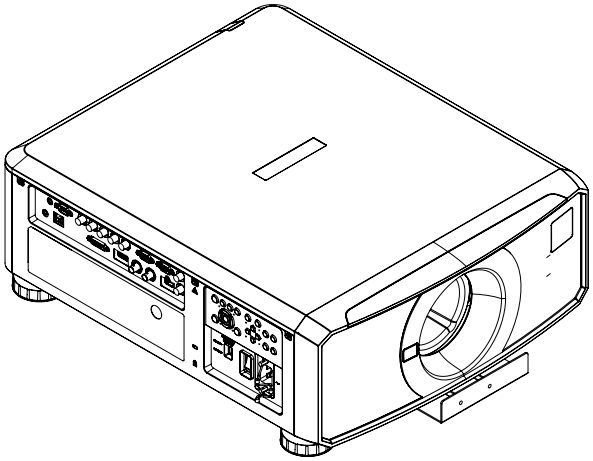
Notes

Installation Instructions

1. Attach the support bracket to the bottom of the projector by using the two provided M4*0.7*20 countersunk screws.



2. Place the projector on a table with the lens front of the support bracket leaning over the edge. This is to ensure that when attached to the projector, the lens assembly will hang loose, without touching the ground.

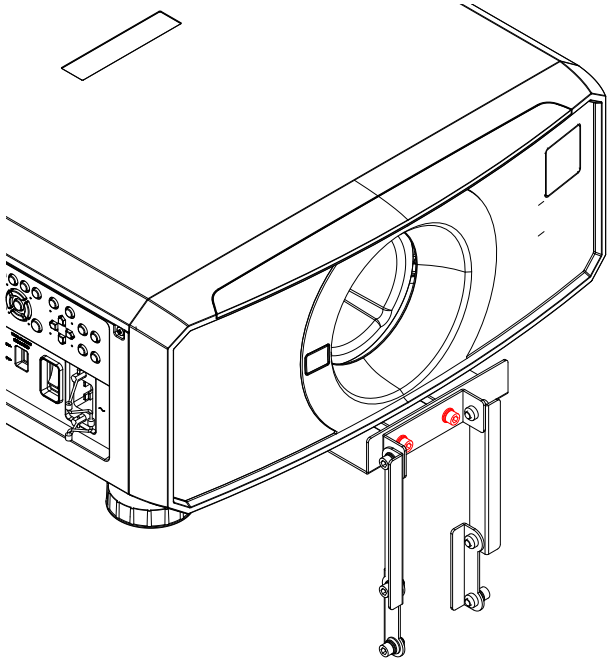


Notes

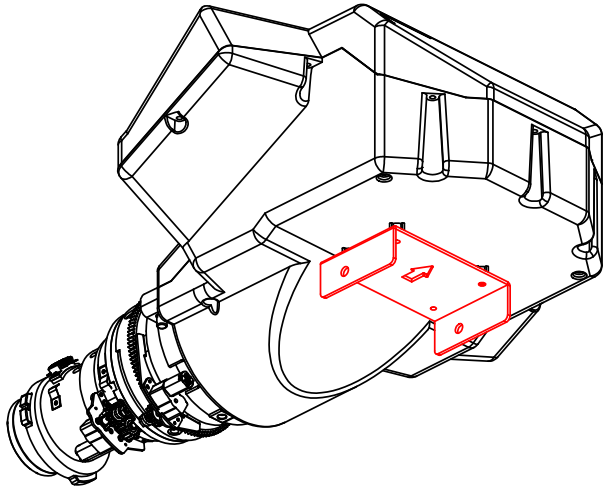
The lens should only be used on flat surfaces and must be aligned parallel to the screen.

The projector must be fully turned off prior to attempting a lens change.

3. Attach the arms to the support bracket by using the two provided M6*1*14 FF hexagonal screws. Do not tighten the screws at this stage.



4. Make sure the adapter bracket is attached to the bottom of the lens.



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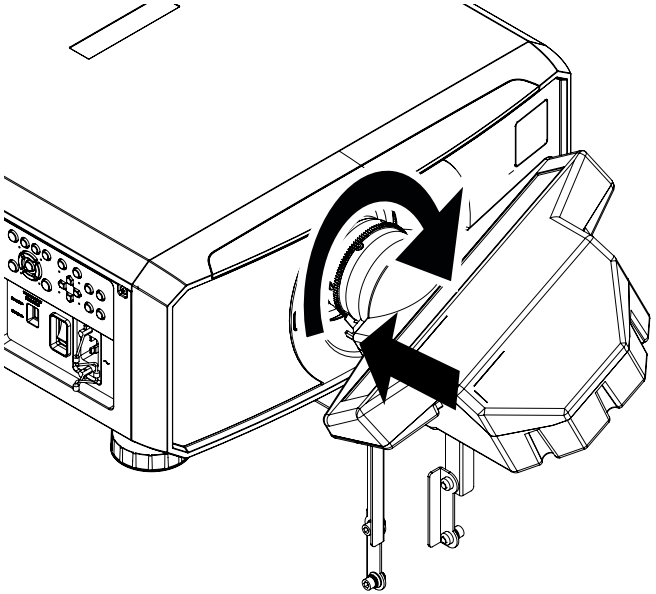
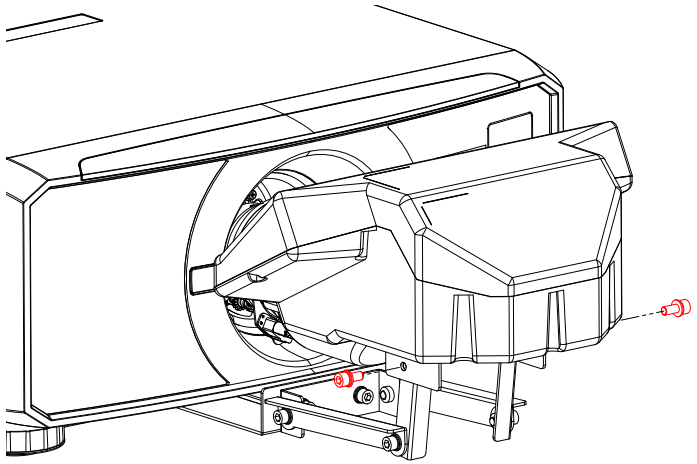
The projector must be fully turned off prior to attempting a lens change.

5. Insert the lens into the holder and turn it clockwise into “Lock” position.



6. Attach the arms to the adapter bracket using the provided screws. Do not tighten the screws yet.

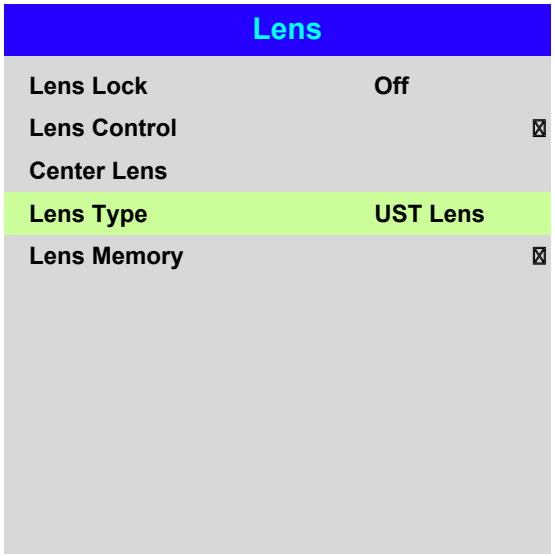


Notes

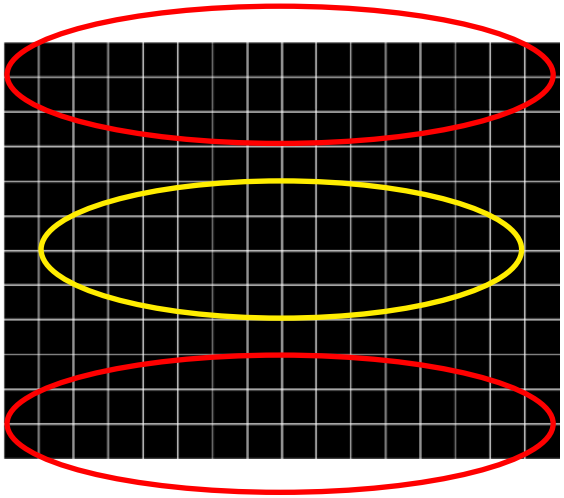
The lens should only be used on flat surfaces and must be aligned parallel to the screen.

The projector must be fully turned off prior to attempting a lens change.

7. Connect the power cable and the input source to the projector and turn it on.
8. From the **Lens** menu, select **UST Lens**, then execute the **Center Lens** command.



9. Select a ***Crosshatch*** test pattern for focus adjustment: on the remote control, press **TEST**, then change the test pattern using the **LEFT** and **RIGHT** arrow buttons.



10. If the top of the cabinet obstructs part of the projected image, adjust the lens position: on the remote control, press **OK** to enter LENS ADJUSTMENT mode, then press **OK** again to switch from **Zoom/Focus Adjustment** to **Shift Adjustment**. Use the arrow buttons to adjust the lens position.
11. Return to **Zoom/Focus Adjustment** mode and press:
    - **Focus +/-** to adjust focus in the central area of the image (yellow outline).
    - **Zoom +/-** to adjust the top and bottom of the image (red outlines).
12. Once focus and zoom are adjusted, tighten the screws that support the lens.

Notes

The lens should only be used on flat surfaces and must be aligned parallel to the screen.

The projector must be fully turned off prior to attempting a lens change.

Achieving even focus can be challenging. For best results, switch between the focus and zoom while ensuring that the lens is supported correctly.

Positioning The Screen And Projector

Calculation

Positioning is determined by:

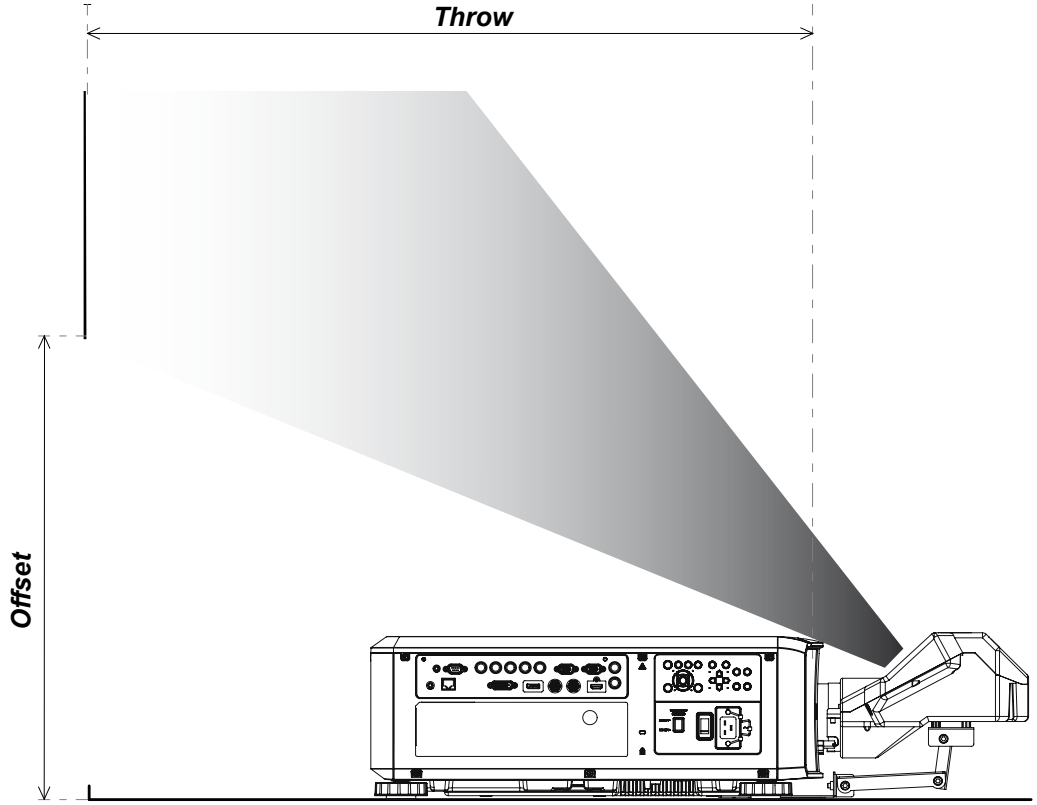
- ***throw*** - the distance between the projector and the screen, and
- ***offset*** - the distance between the ground and the bottom edge of the screen.

These figures are calculated using the screen width in millimeters, using the following formulae:

throw = screen width (in millimeters) x 0.35134 - 184 mm

WUXGA offset = screen width (in millimeters) x 0.2586 + 136 mm

4K-UHD offset = screen width (in millimeters) x 0.2515 + 136 mm



Notes

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*The **throw formula** on this page uses easy to measure reference points: the screen surface and the front of the projector. In reality the throw is measured from a point inside the lens which is 184 mm away from the front of the projector.*

*Likewise, the **offset formula** uses a correction of 136 mm because in reality the offset begins 136 mm above the ground.*

The screen width must be in mm.

For screen widths below 2223 mm, the rear of the projector is in line with the screen wall. Space must be left behind the projector for ventilation: the minimum distance should be 500 mm. For further information, see the projector user manual.

Lens tolerance can be up to 5%.

Offset is also dependent on lens shift.

Typical screen sizes and distances

WUXGA (16:10)

Screen width	Throw	Offset
2500 mm	696 mm	783 mm
3000 mm	871 mm	912 mm
3500 mm	1047 mm	1041 mm
4000 mm	1223 mm	1170 mm
4500 mm	1398 mm	1300 mm
5000 mm	1574 mm	1429 mm
5500 mm	1750 mm	1558 mm
6000 mm	1925 mm	1687 mm
6500 mm	2101 mm	1816 mm
7000 mm	2277 mm	1946 mm
7500 mm	2452 mm	2075 mm

4K-UHD (16:9)

Screen width	Throw	Offset
2500 mm	696 mm	765 mm
3000 mm	871 mm	891 mm
3500 mm	1047 mm	1017 mm
4000 mm	1223 mm	1142 mm
4500 mm	1398 mm	1268 mm
5000 mm	1574 mm	1394 mm
5500 mm	1750 mm	1520 mm
6000 mm	1925 mm	1645 mm
6500 mm	2101 mm	1771 mm
7000 mm	2277 mm	1897 mm
7500 mm	2452 mm	2022 mm

Notes

The lens should only be used on flat surfaces and must be aligned parallel to the screen.

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