



Mounting Guide ULS Mirror Optoma ZU1300 Series Projectors



Thank you for choosing a ULS Mirror System.

By following the steps outlined in this mounting guide, you will ensure reliable performance and long-term satisfaction with the product.

Introduction / Purpose of This Mounting Guide:

This mounting guide demonstrates how to install the ULS Mirror Set together with the appropriate Projector Plate onto the projector. It details recommended positioning relative to the projector body, the pole connection at the ULS Base Plate, and the ball-head orientation on the mirror itself. These recommendations are derived from both precise calculations and extensive practical testing.

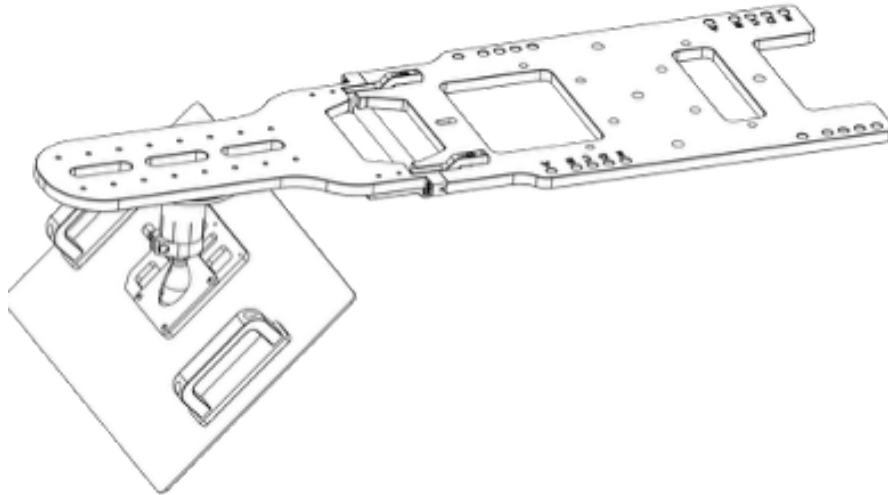
⚠ Safety Notice

This device has left our company in perfect condition. To maintain this condition and ensure safe operation, all safety instructions and warning notes must be followed.

- Never look directly into the light source of the connected projector.
- Keep children away from the device and installation area at all times.

For detailed safety guidelines, technical definitions, and further information, please refer to the official ULS Mirror Manual (June 2025), available at:

https://dynamicprojection.com/transfer/ULS/ULS_Manual_V14_June2025.pdf

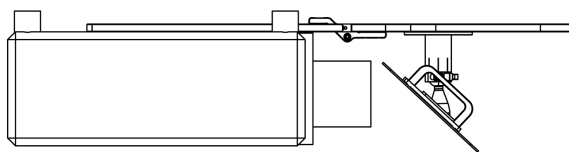


ULS Mirror Set 48/05

Projector Plate MHB-3705

This guide applies to the following variants designed for use with Optoma ZU1300, ZU1100, TU1050, ZU900, ZU850 amm. projectors, depending on the lens in use and the respective mirror deflection angle. Compatible with Rigtec AIR FRAME X-10 – but not necessarily needed.

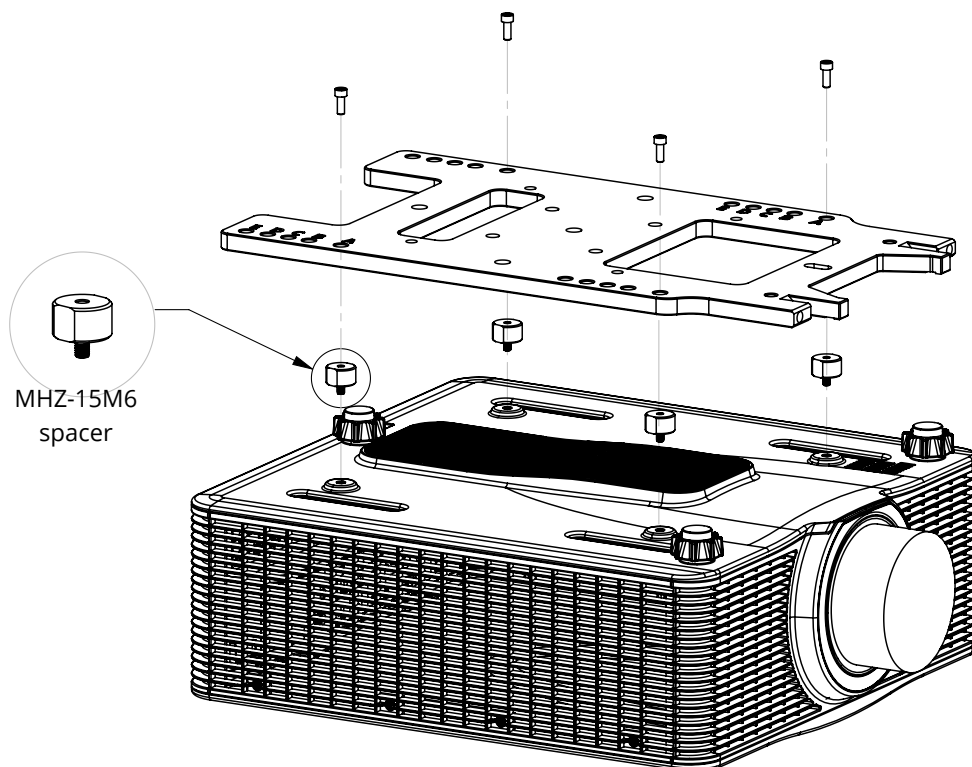
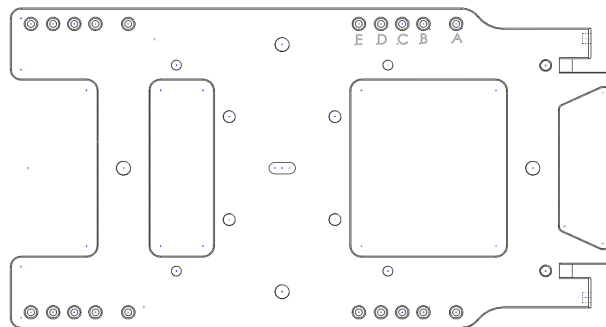
Three ULS Mirror Set are available. Depending on the lens used – and consequently the throw ratio – as well as the deflection angle of the mirror, different mirror sizes and pole heights are required. Please note: the values listed below apply exclusively to a 90° vertical deflection and use without frame. Different deflection angles will require separate calculations.



Lens ZU1300	Throw Ratio	ULS-Mirror	Pole	ULS Code
BX-CTA17	0.65-0.75:1	M700	P135 / 135 mm	ULS-MB-7013
BX-CTA17 +/- 10% V	0.65-0.75:1	M480	P056 / 56 mm	ULS-MB-4805
BX-CTA15	0.75-0.95:1	M480	P056 / 56 mm	ULS-MB-4805
BX-CTA01	0.95-1.22:1	M340	P056 / 56 mm	ULS-MB-3405
BX-CTA06	1.22-1.53:1	M340	P056 / 56 mm	ULS-MB-3405
BX-CTA03	1.52-2.92:1	M340	P056 / 56 mm	ULS-MB-3405
BX-CTA13	2.9-5.5:1	M340	P056 / 56 mm	ULS-MB-3405

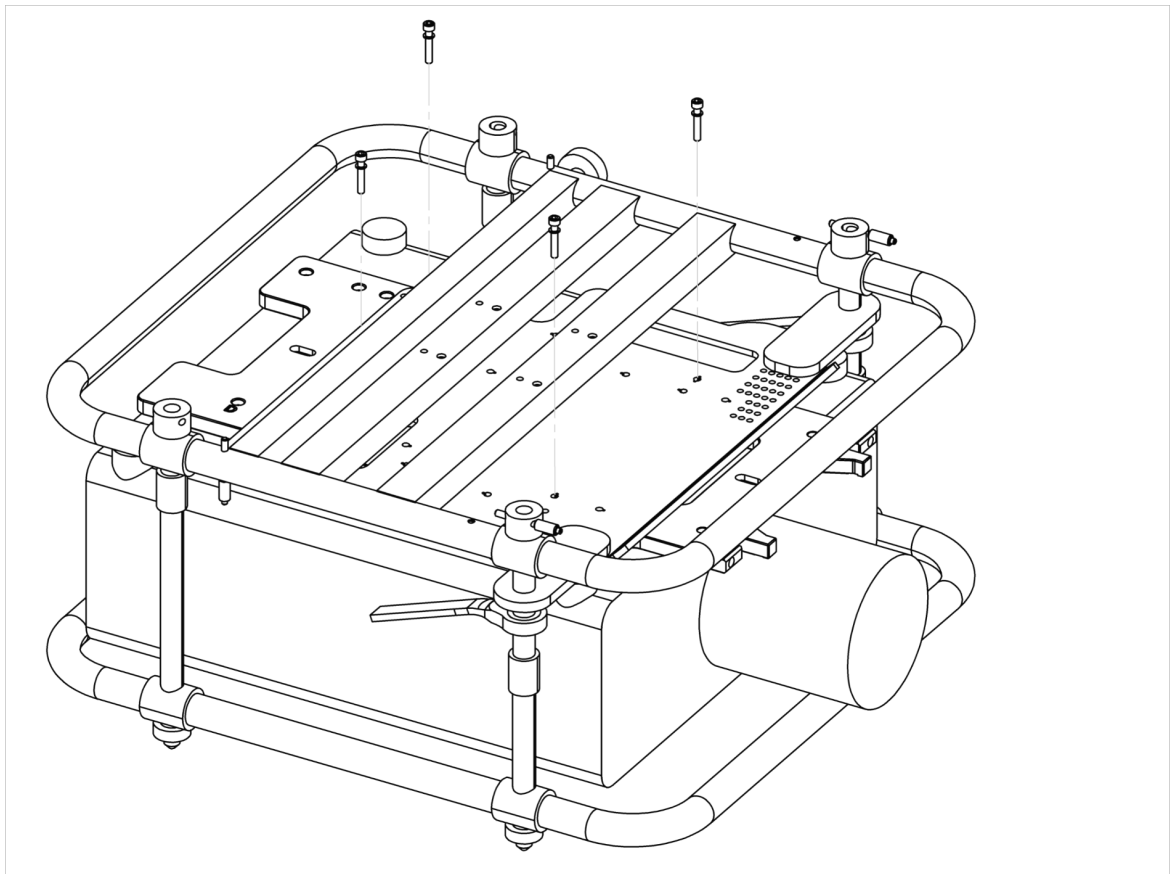
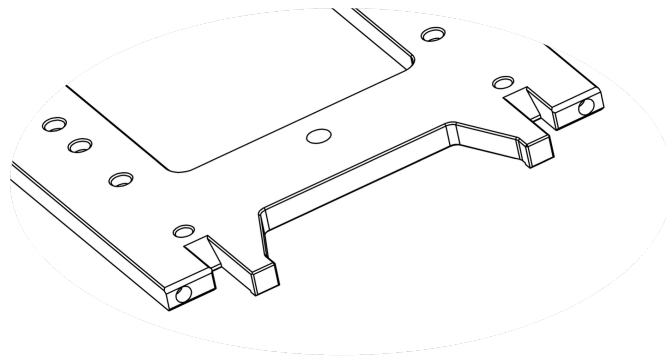


1. Screw the four MHZ-15M6 spacers into the mounting points of the projector. Then place the Projector Plate MHB-3703 on top and secure it using 4x M6 x 16 socket head screws. Ensure that the correct side of the Projector Plate is facing upward and that the mounting position is **"A"**.



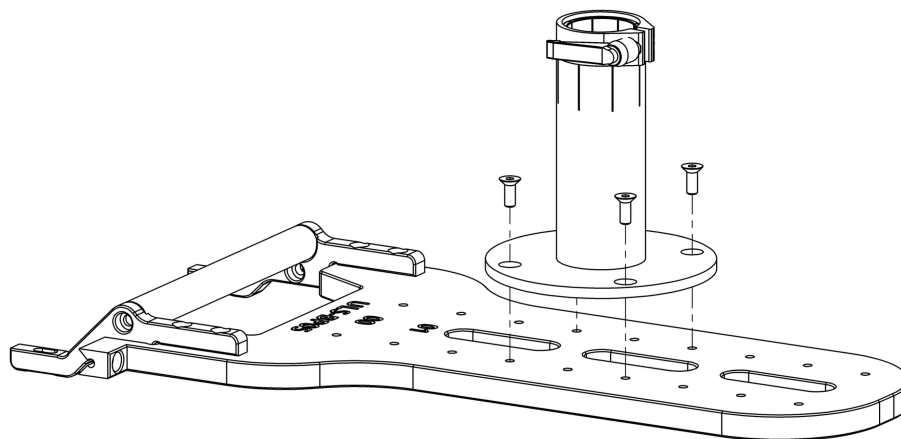


2. If a projector frame is used: Screw the four MHZ-15M6 spacers into the mounting points of the projector. Mount the Projector Plate MHB-3703 to the projector between frame and projector / spacer and fasten it using 4x M6 x 30 socket screws + washers. Ensure that the correct side of the Projector Plate is facing upward and the mounting position is "C".





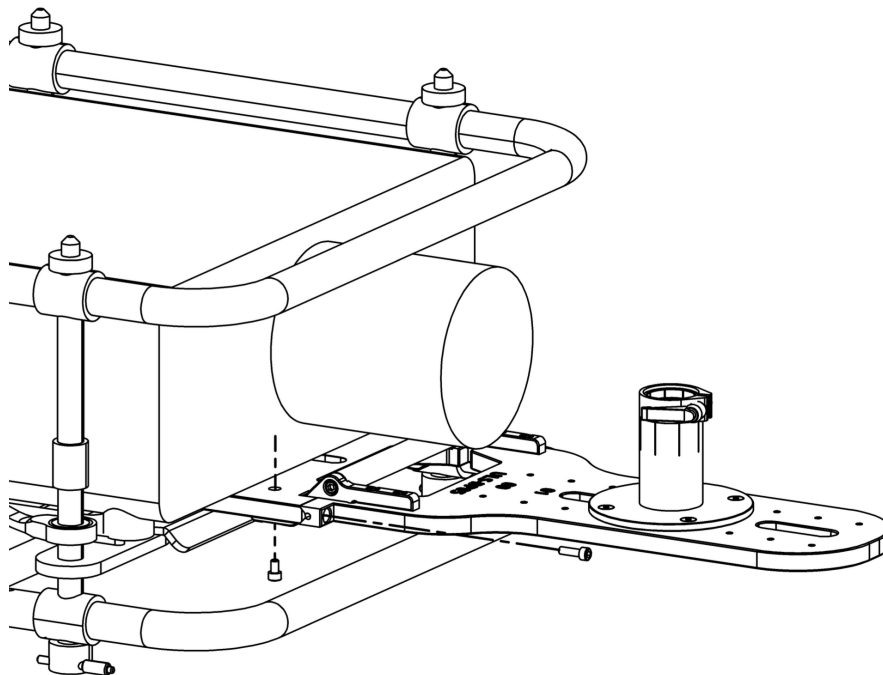
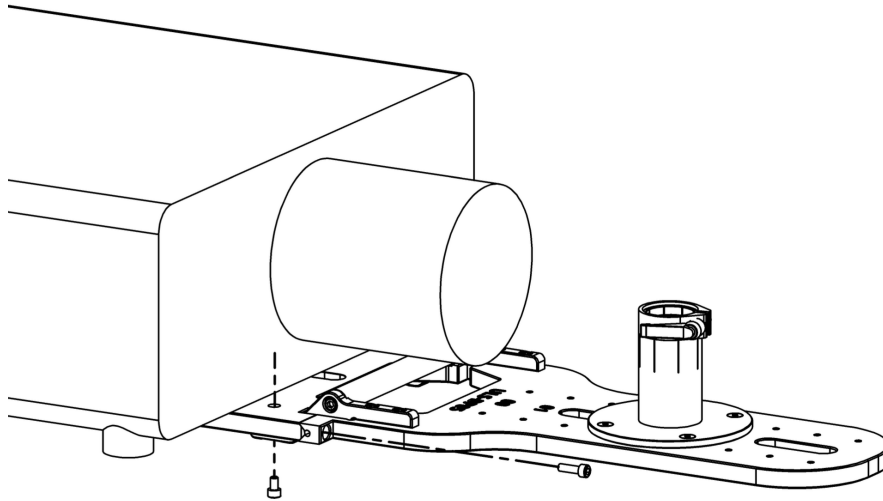
3. Mount the ULS Pole onto the ULS Base Plate ULS-BP05 / ULS-BP02 using the 4x M6 x 16 countersunk screws as shown below. Depending on the mirror size and the lens used, please follow the recommended position (00 - 06) as indicated in the list below. For longer throw ratio ($\geq 1.2:1$), positions further away from the lens may also be used. In any case, ensure that the mirror is mounted in a way that prevents any risk of damaging the projector lens.



ULS-BP05	Lens ZU1300	Throw Ratio	ULS-Mirror	Pole
Position 04	BX-CTA17	0.65-0.75:1	M700	P135 / 135 mm
Position 02	BX-CTA17 +/- 10% V	0.65-0.75:1	M480	P056 / 56 mm
Position 02	BX-CTA15	0.75-0.95:1	M480	P056 / 56 mm
Position 02	BX-CTA01	0.95-1.22:1	M340	P056 / 56 mm
Position 03	BX-CTA06	1.22-1.53:1	M340	P056 / 56 mm
Position 04	BX-CTA03	1.52-2.92:1	M340	P056 / 56 mm
Position 05	BX-CTA13	2.9-5.5:1	M340	P056 / 56 mm



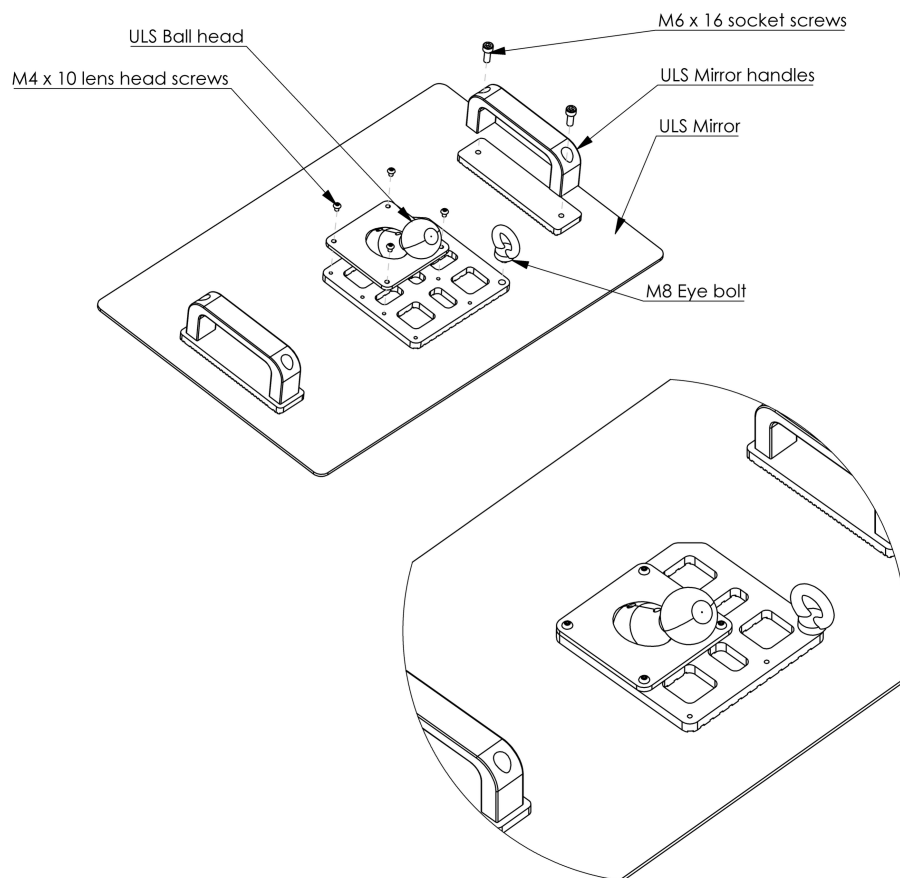
4. Mount the ULS Base Plate ULS-BP05 / ULS-BP02 onto the Projector Plate MHB-3703 by using 2x M6 x 20 socket screw and from below 2x M6 x 10 socket screws.





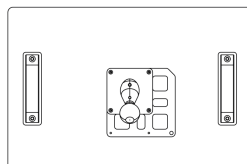
5. Mirror assembly – the figure shows a ULS-M340 mirror (340 x 250 mm)

An M8 eye bolt is provided for attaching a safety wire. For any overhead installation, the use of a certified safety wire is mandatory.



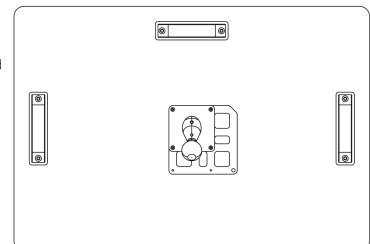
ULS Mirror M480

- Removable handles.
- Changeable positions of ball head
- Mirror size 480 x 340 mm
- Code: ULS-M480



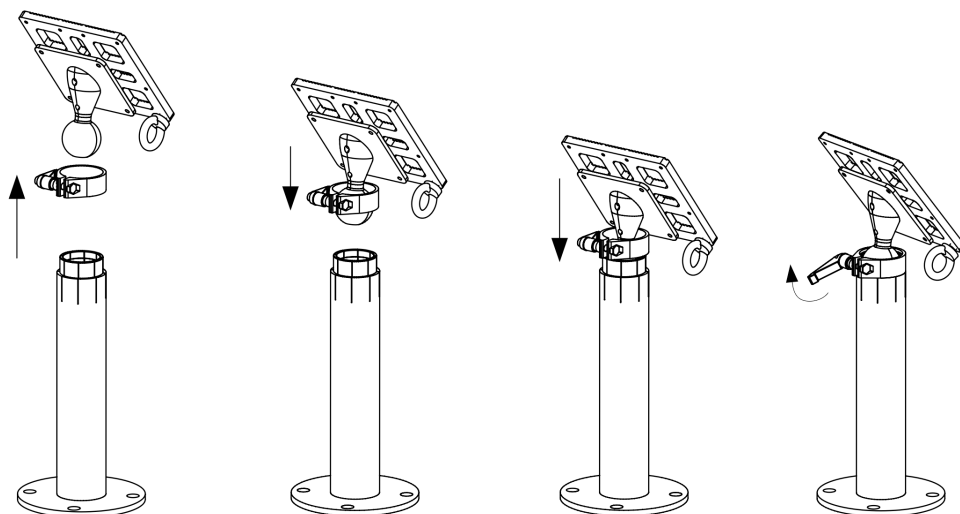
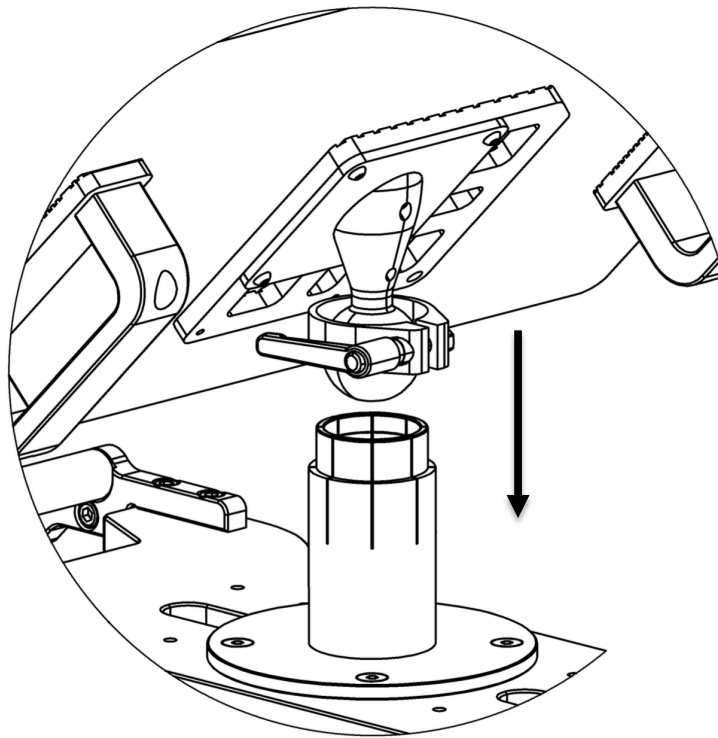
ULS Mirror M700

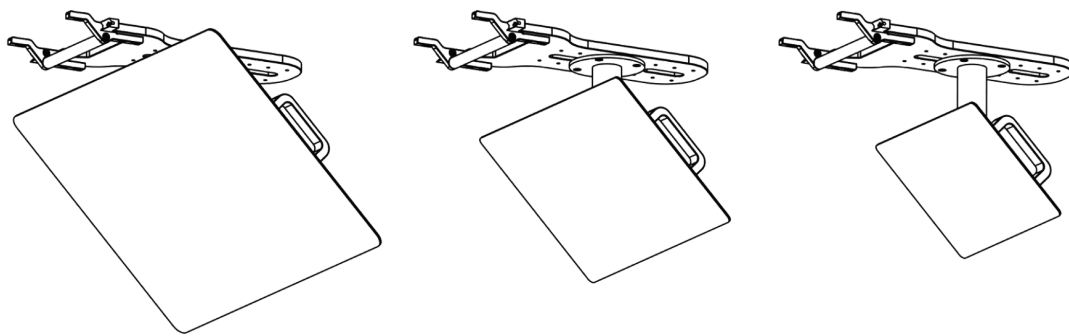
- Removable / changeable handles.
- Changeable positions of ball head
- Mirror size 700 x 480 mm
- Code: ULS-M700





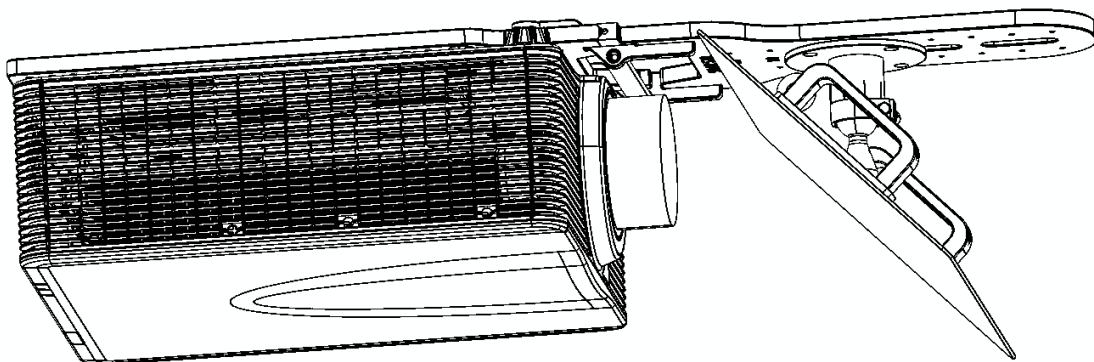
6. Place the ring clamp over the ball head, push the ball head in the ULS Pole ball socket and secure the position with the locking lever.



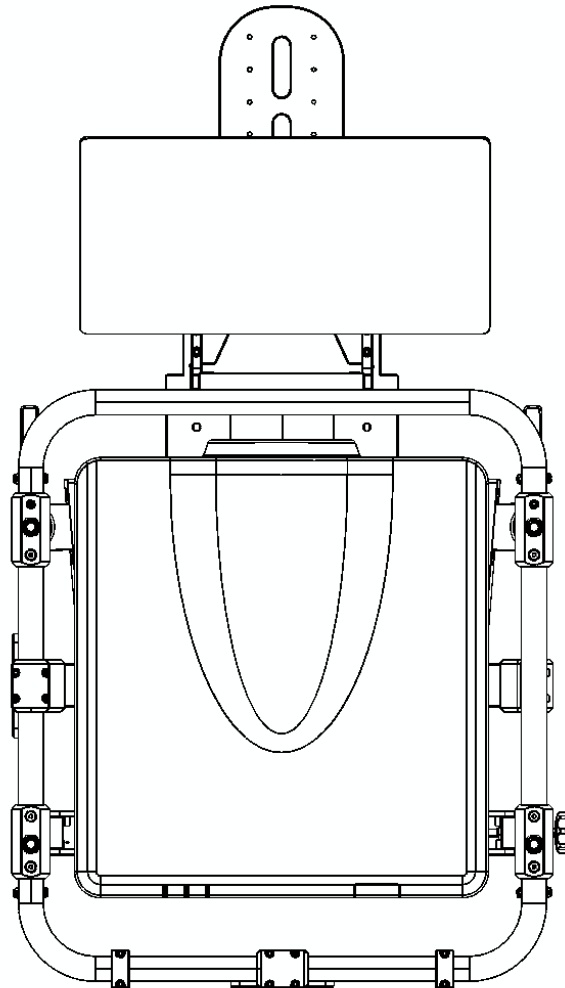


Extended information regarding mounting configurations, mechanical integration, and safety instructions can be found in the official installation manual. Please consult the manual on our website for complete guidance.

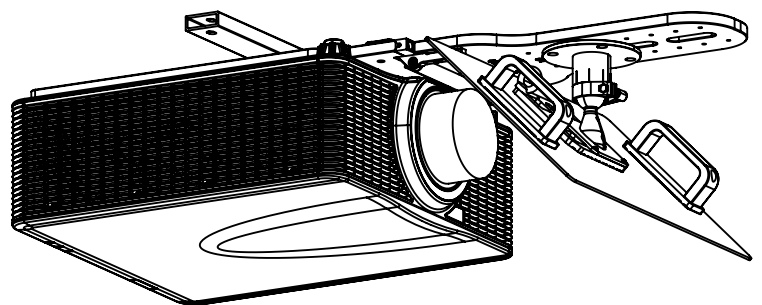
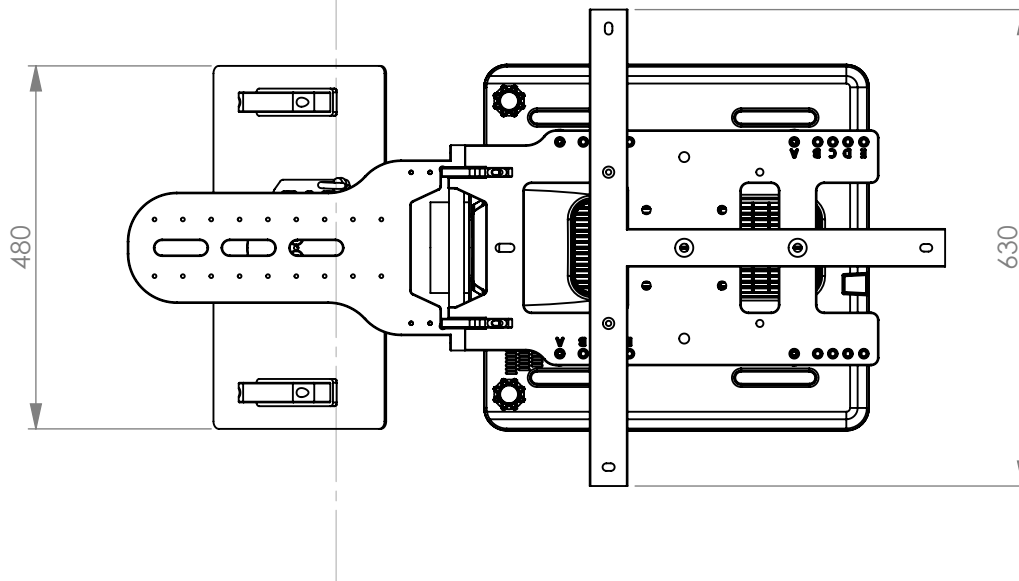
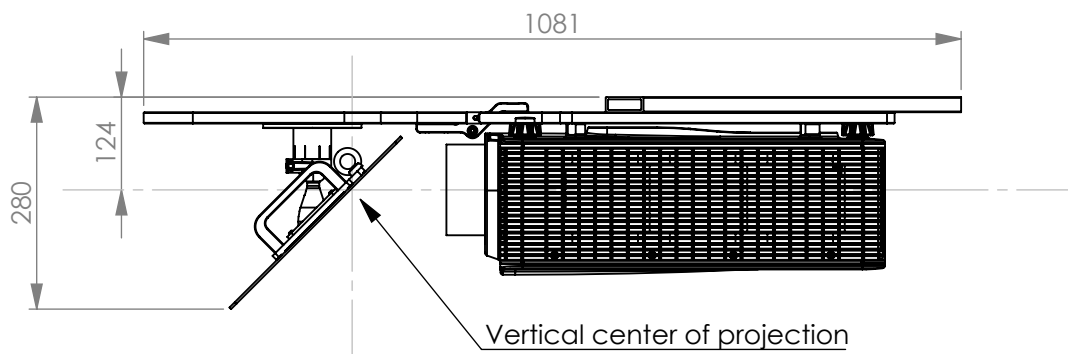
<https://www.dynamicprojection.com/uls-support>



Optoma ZU1300 + BX-CTA15
ULS Mirror M480 (ULS Mirror Set 48/05)

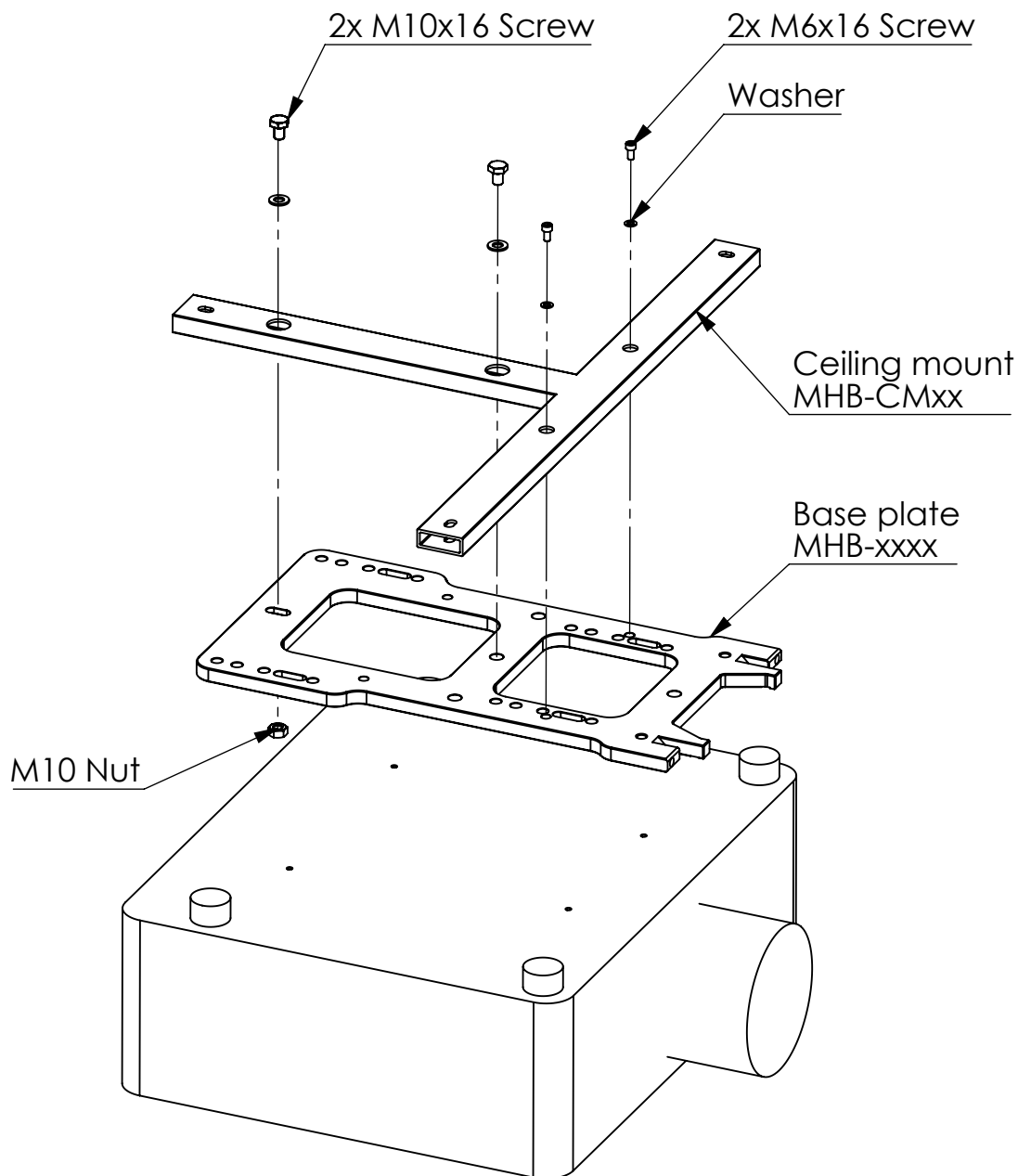


Optoma ZU1300 + BX-CTA15, Rigtec AIR FRAME X-10
ULS Mirror M480 (ULS Mirror Set 48/05)

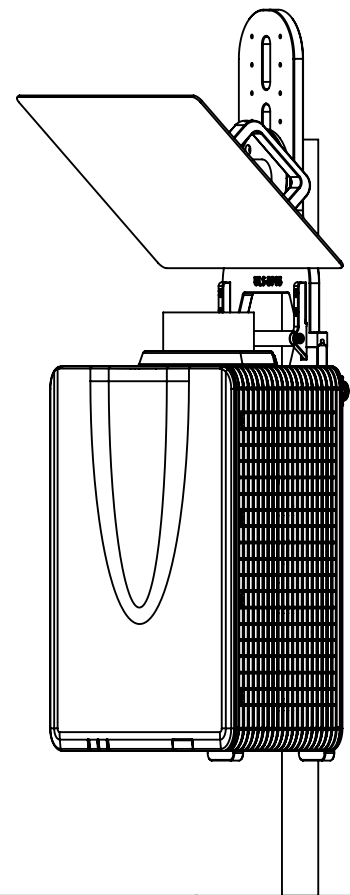
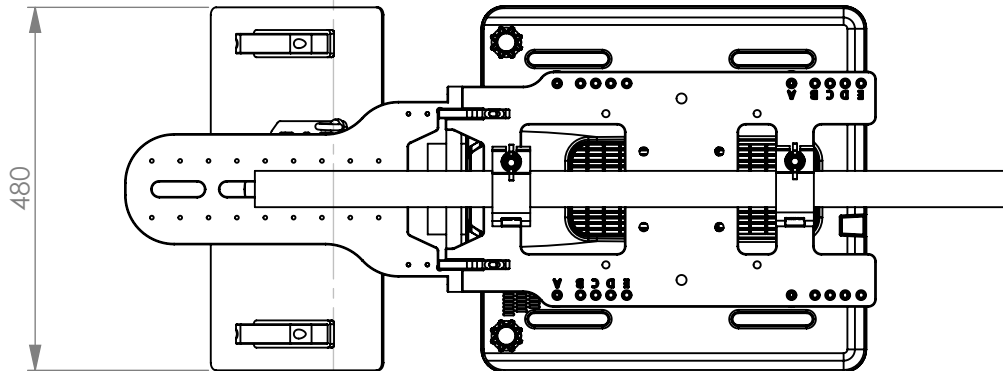
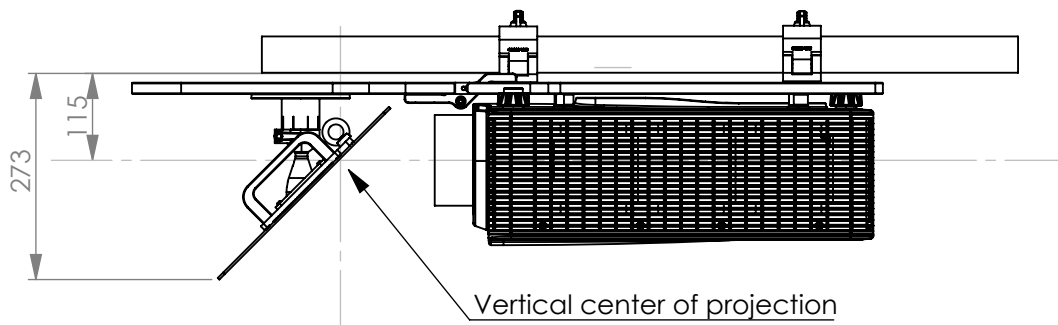


Mirror Size M480 = 480 x 320 mm
Pole P056 / ULS-BP05 Pos 02
MHB-3703 Pos A

WENN NICHT ANDERS DEFINIERT: TOLERANZEN:		OBERFLÄCHENBESCHAFFENHEIT:		ENTGRATEN UND SCHARFE KANTEN BRECHEN		ZEICHNUNG NICHT SKALIEREN		ÄNDERUNG	
DIN ISO 2768-1 m								DYNAMIC PROJECTION INSTITUTE	
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	NAME	SIGNATUR	DATUM			BENENNUNG: ULS-MB-4805 Optoma ZU1300 + BX-CTA15 / 0.75-0.95:1 with Ceiling Mount MHB-CM37			
GEZEICHNET	Stokic		13.10.2025						
GEPRÜFT									
GENEHMIGT									
PRODUKTION									
QUALITÄT				WERKSTOFF:		ZEICHNUNGSNR.		A4	
						DPI-ULS-MB-4805_ZU1300			
				GEWICHT:		MASSSTAB:1:10		BLATT 1 VON 1	



WENN NICHT ANDERS DEFINIERT: TOLERANZEN: DIN ISO 2768-1 m		ROHTEIL:		ENTGRATEN UND SCHARFE KANTEN BRECHEN		ZEICHNUNG NICHT SKALIEREN		ÄNDERUNG	
						 DYNAMIC PROJECTION INSTITUTE		Copyright (c) 2014-2024 by Dynamic Projection Institute Herstellungs und Vertriebs GmbH. All Rights Reserved.	
NAME Stokic		SIGNATUR		DATUM 05.04.2024		BENENNUNG: How to mount the ceiling mount MHB-CMxx to the projector plate			
GEZEICHNET						ZEICHNUNGSNR. DPI-MHB-2604_MHB-CM26			
GEPRÜFT									
GENEHMIGT									
PRODUKTION									
QUALITÄT						A4			
						GEWICHT:			
						BLATT 1 VON 1			



Mirror Size M480 = 480 x 320 mm
Pole P056 / ULS-BP05 Pos 02
MHB-3703 Pos A

WENN NICHT ANDERS DEFINIERT:
TOLERANZEN:

DIN ISO 2768-1 m

OBERFLÄCHENBESCHAFFENHEIT:

ENTGRATEN
UND SCHARFE
KANTEN
BRECHEN

ZEICHNUNG NICHT SKALIEREN

ÄNDERUNG



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GEZEICHNET	NAME	SIGNATUR	DATUM		
GEPRÜFT	Stokic		10.11.2025		
GENEHMIGT					
PRODUKTION					
QUALITÄT					
				WERKSTOFF:	
				GEWICHT:	

BENENNUNG:

ULS-MB-4805 Optoma ZU1300
+ BX-CTA15 / 0.75-0.95:1

ZEICHNUNGSNR.

DPI-ULS-MB-4805_ZU1300

MASSSTAB: 1:10

A4

BLATT 1 VON 1