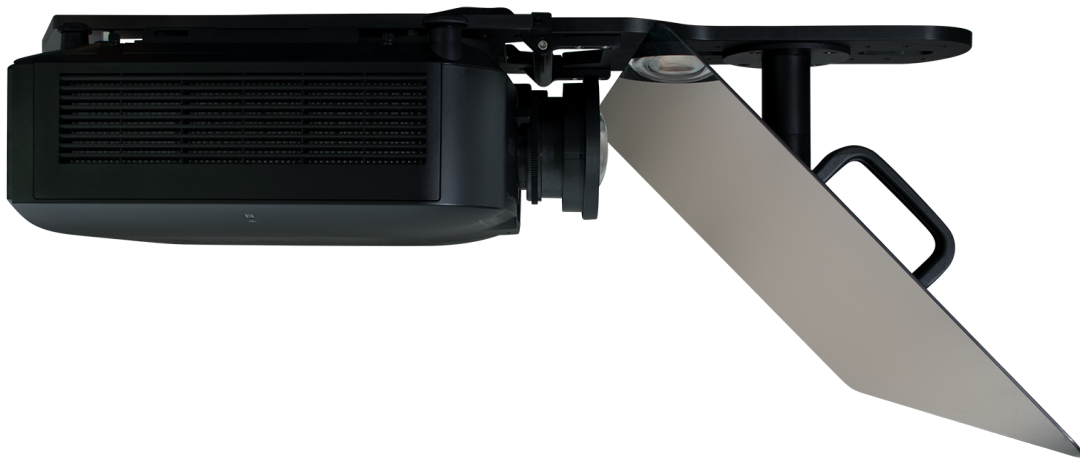




Mounting Guide ULS Mirror

Epson EB-PQ2213 - EB-PQ2220

EB-PU2113 – EB-PU2120 / EB-PU2213 – EB-PU2220



Thank you for choosing the 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.

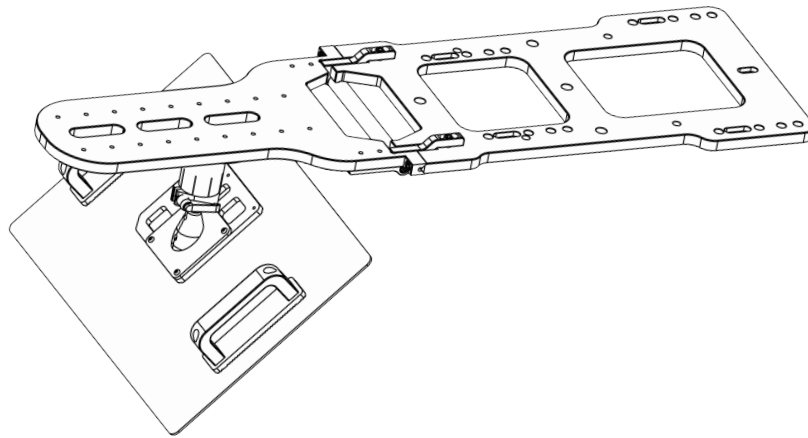
⚠ Safety Notice

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

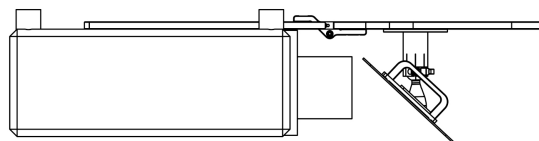


ULS Mirror Set / ULS-MB-4808

Projector Plate MHB-2604

This guide applies to the following variants designed for use with Epson EB-PQ2213B, PQ2216W, PQ2216B, PQ2220, PU2113W, PU2213B, PU2116W, PU2116B, PU2120W, PU2220B and similar projectors, depending on the lens in use and the respective mirror deflection angle. Compatible with EXACT solutions GmbH EVO-P10, Rigtec AIR FRAME X-30 – 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. Different deflection angles will require separate calculations.

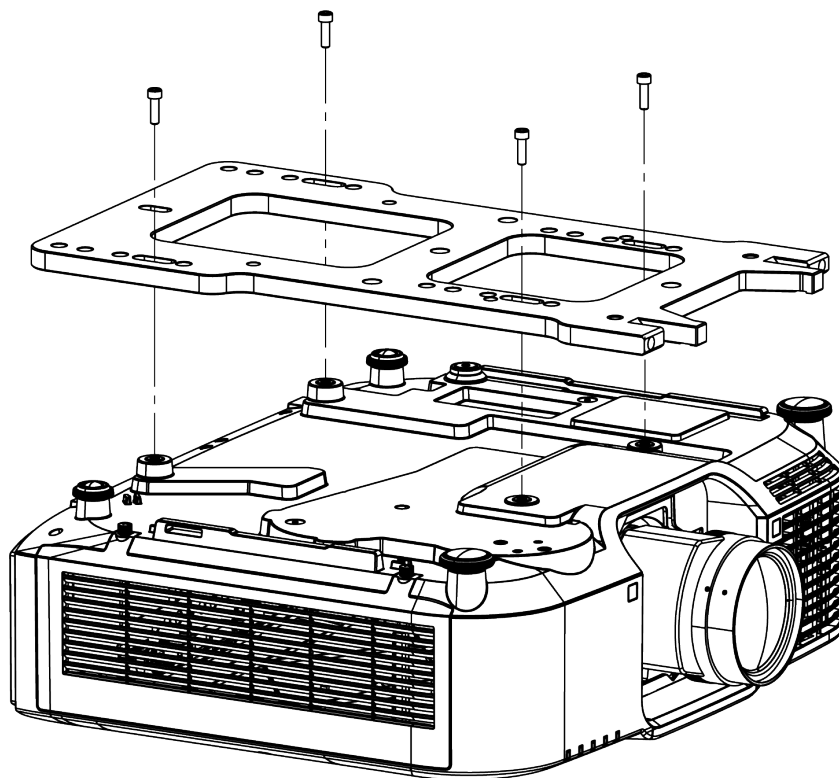
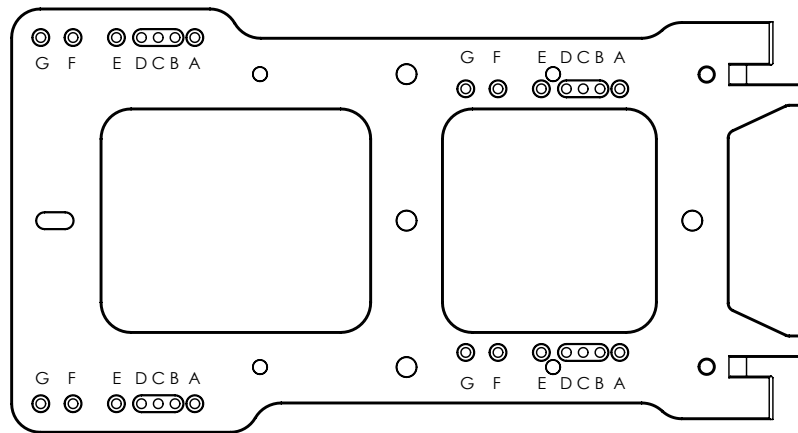


ULS Code	Mirror mm	Pole mm	Compatible lens	EB-PQ2213 - PQ2220	Range
ULS-MB-7013	700 x 480	135	ELPLU03S**	0.46 - 0.56:1	≥ 0.54:1
ULS-MB-4808	480 x 340	88	ELPLU04	0.62 - 0.75:1	Full
ULS-MB-4808	480 x 340	88	ELPLW05	0.74 - 1.04:1	Full
ULS-MB-3405	340 x 250	56	ELPLW08	0.83 - 1.17:1	Full
ULS-MB-3405	340 x 250	56	ELPLW06	1.15 - 1.57:1	Full
ULS-MB-3405	340 x 250	56	ELPLM15 - ELPLL08	1.52 – 7.16:1	Full

**Minimum required throw ratio ≥ 0.54:1 (4K 16:9) / ≥ 0.55:1 (WUXGA 16:10)

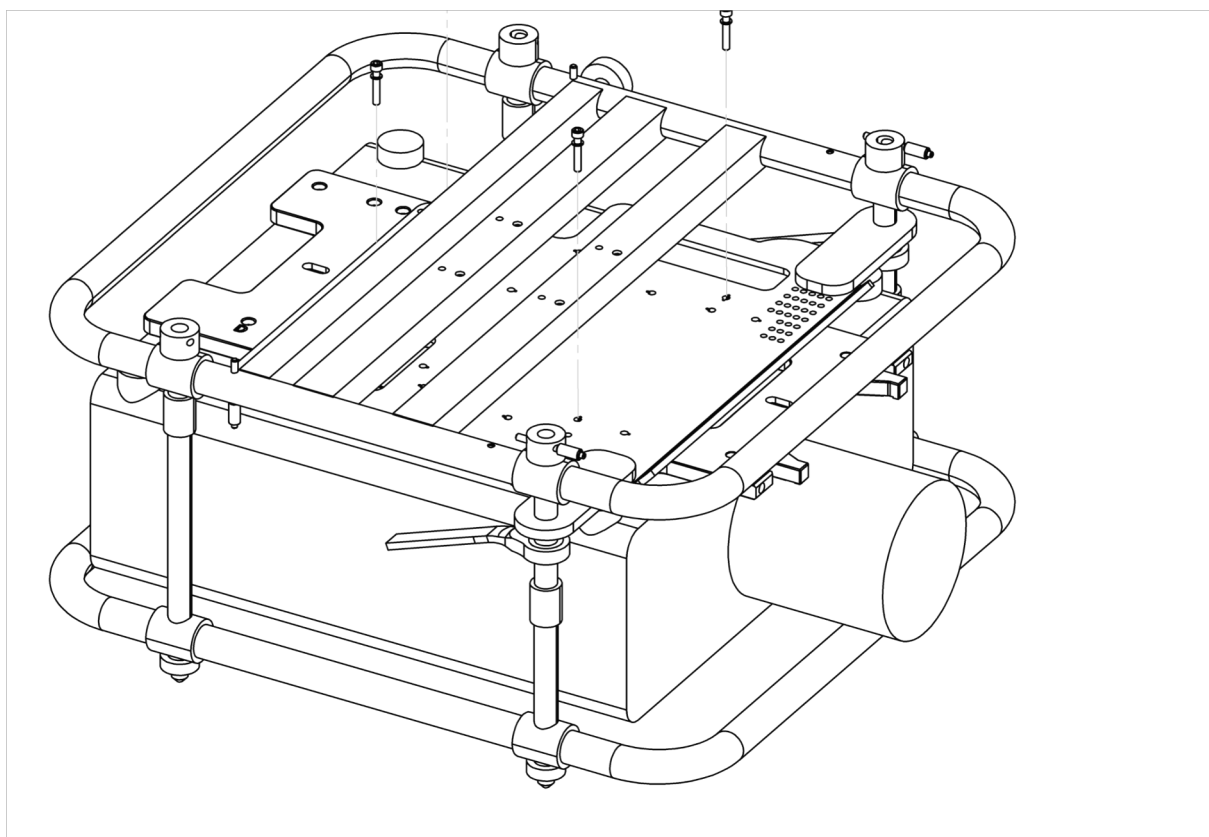
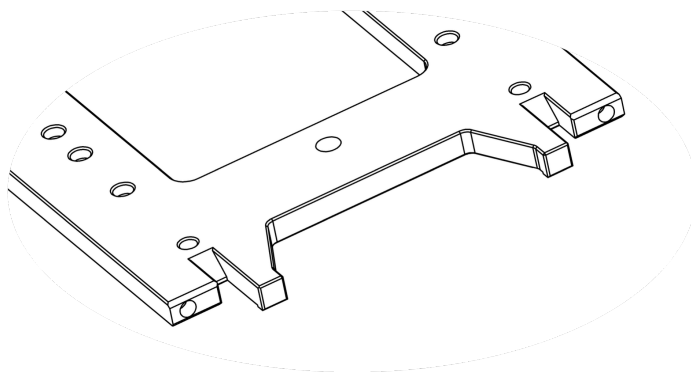


1. Place the Projector Plate MHB-2604 onto the projector by using 4x M6 x 20 socket screws. Ensure that the correct side of the Projector Plate is facing upward and the **mounting position** is "C".



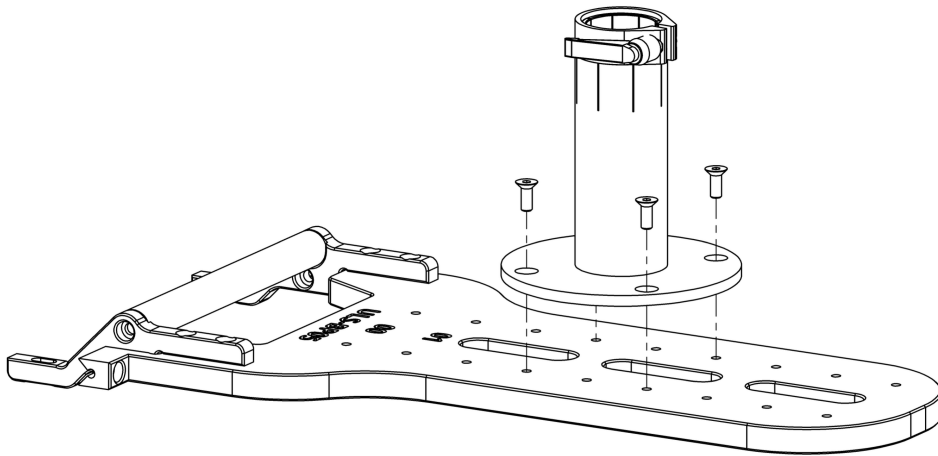


2. Mount the Projector Plate MHB-2604 to the projector between frame and projector and fasten it using 4x M6 x 35 socket screws + washers. Ensure that the correct side of the Projector Plate is facing upward and the **mounting position** is "C".





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, 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.

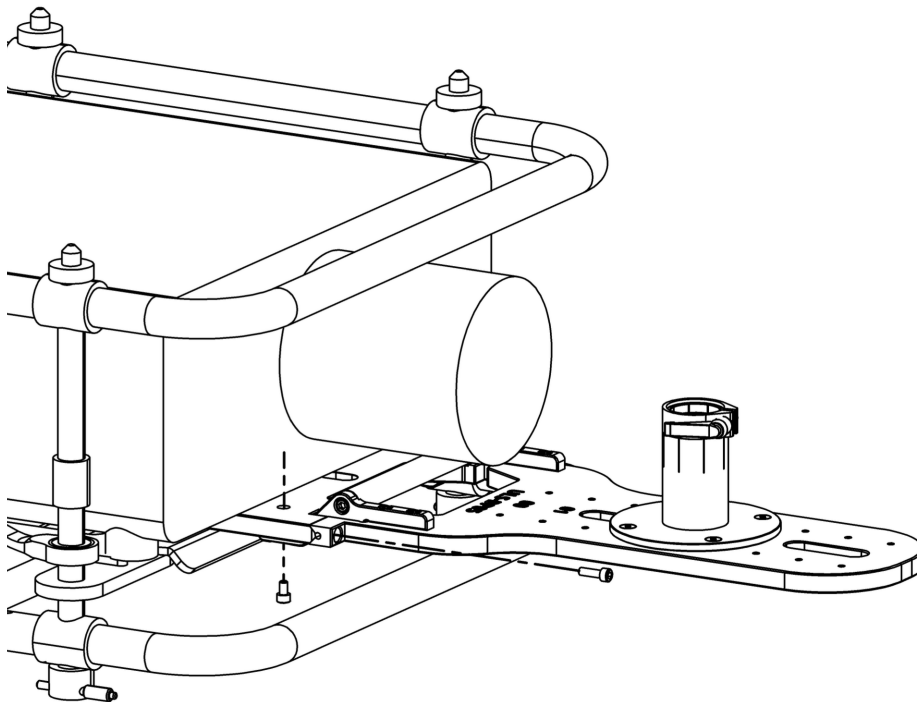
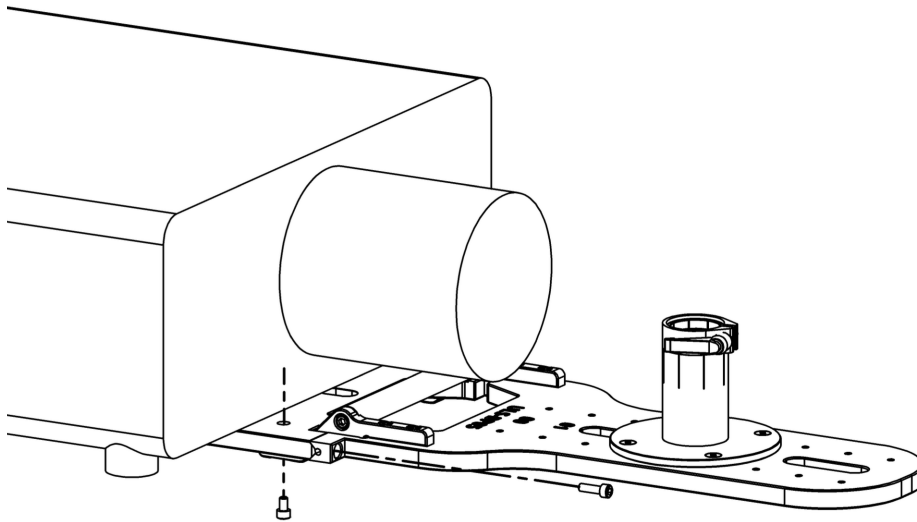


Mirror	Mirror size	Pole	Lens	ULS Base Plate
M700	700 x 480 mm	P135 / 135 mm	ELPLU03S	Position 02
M480	480 x 320 mm	P088 / 88 mm	ELPLU04	Position 02
M480	480 x 320 mm	P088 / 88 mm	ELPLW05	Position 03
M340	340 x 250 mm	P056 / 56 mm	ELPLW08	Position 01
M340	340 x 250 mm	P056 / 56 mm	ELPLW06*	Position 01

* For lenses with higher throw ratios, other ULS Base Plate ULS-BP05 / ULS-BP02 position combinations can also be used.



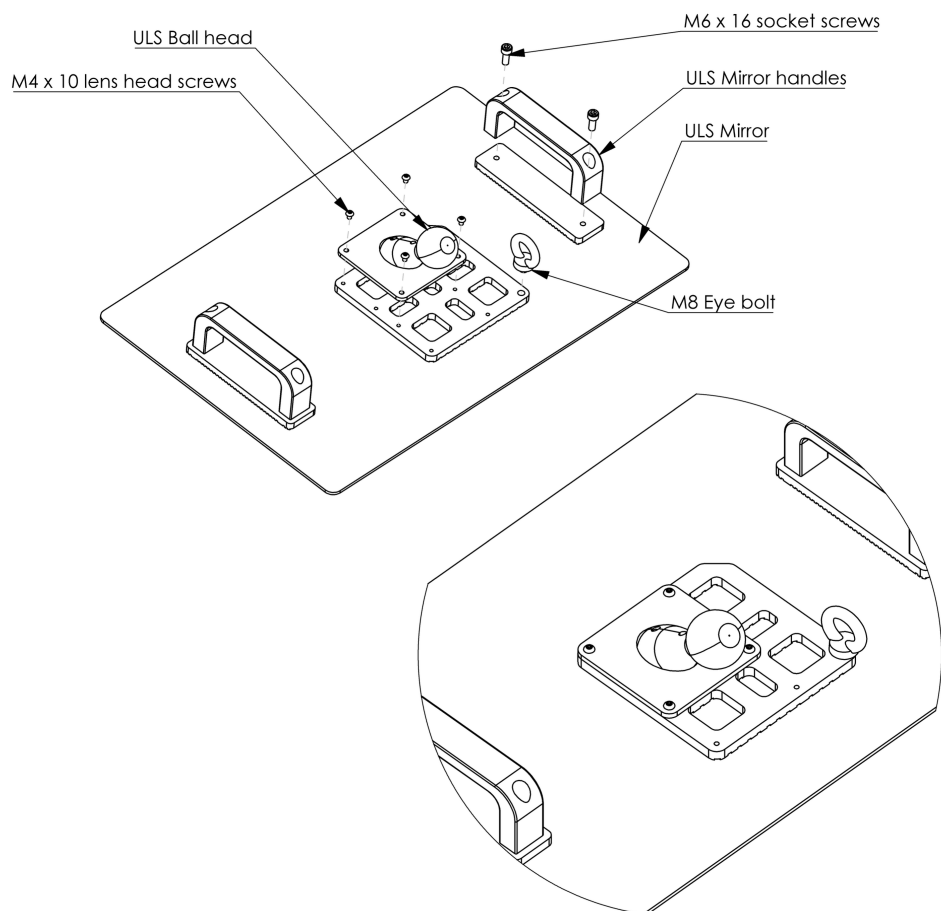
4. Mount the ULS Base Plate ULS-BP05 / ULS-BP02 onto the Projector Plate MHB-2604 by using 2x M6 x 20 socket screw and from below 2x M6 x 10 socket screws.





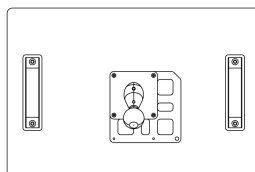
5. Mirror assembly – the figure shows a ULS-M340 mirror (340 x 250 mm)

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



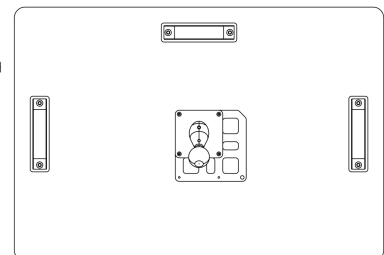
ULS Mirror M480

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



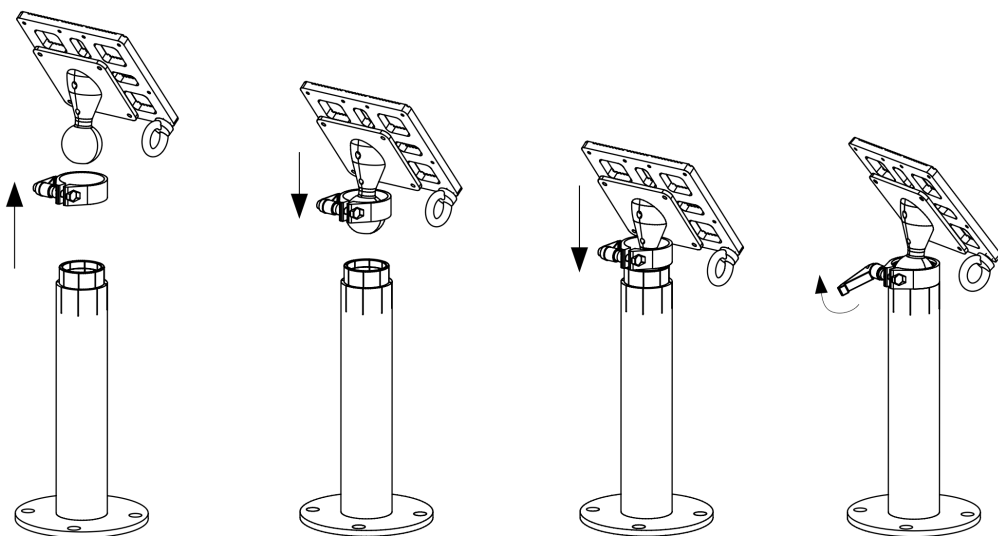
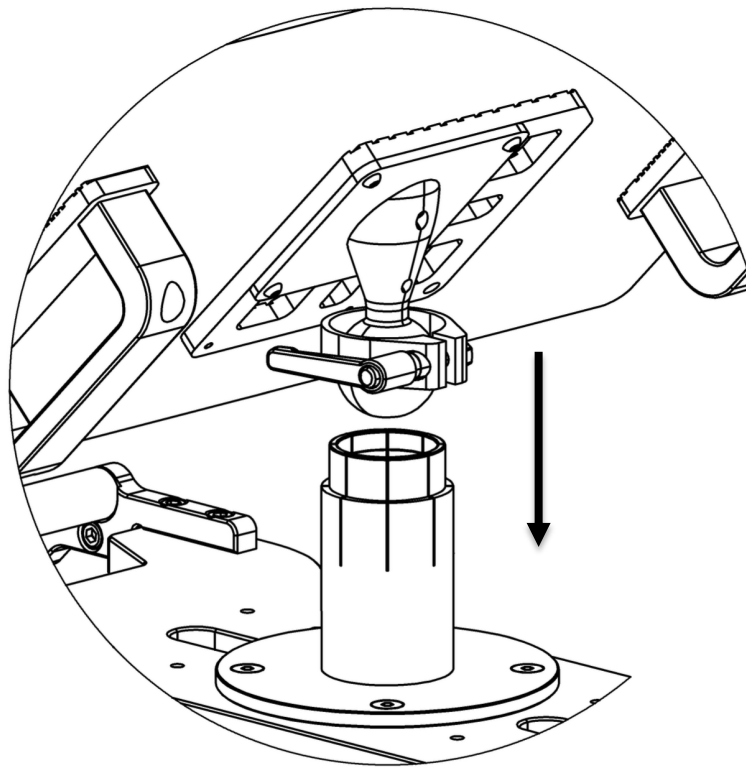
ULS Mirror M700

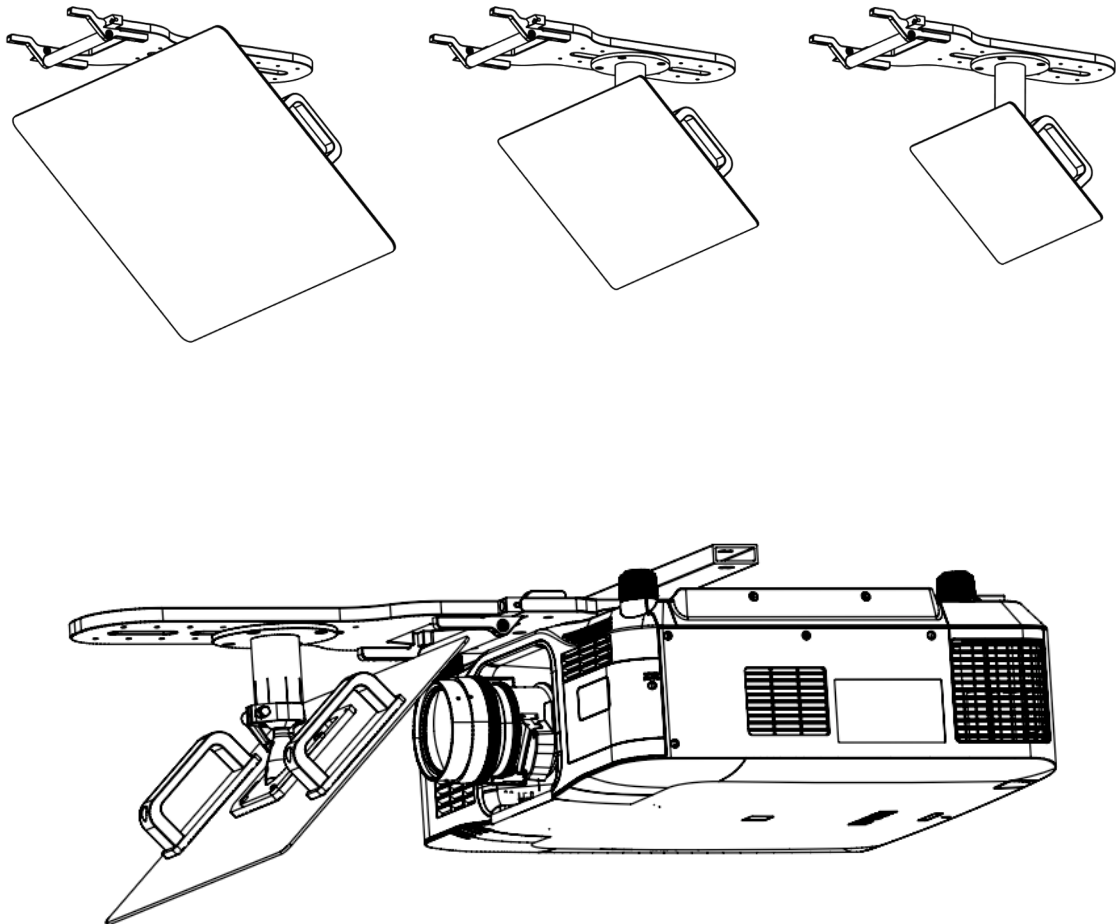
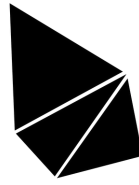
- Removable / changeable handles.
- Changeable positions of ball head
- Mirror size 700 x 480 mm
- Code: ULS-M700





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.

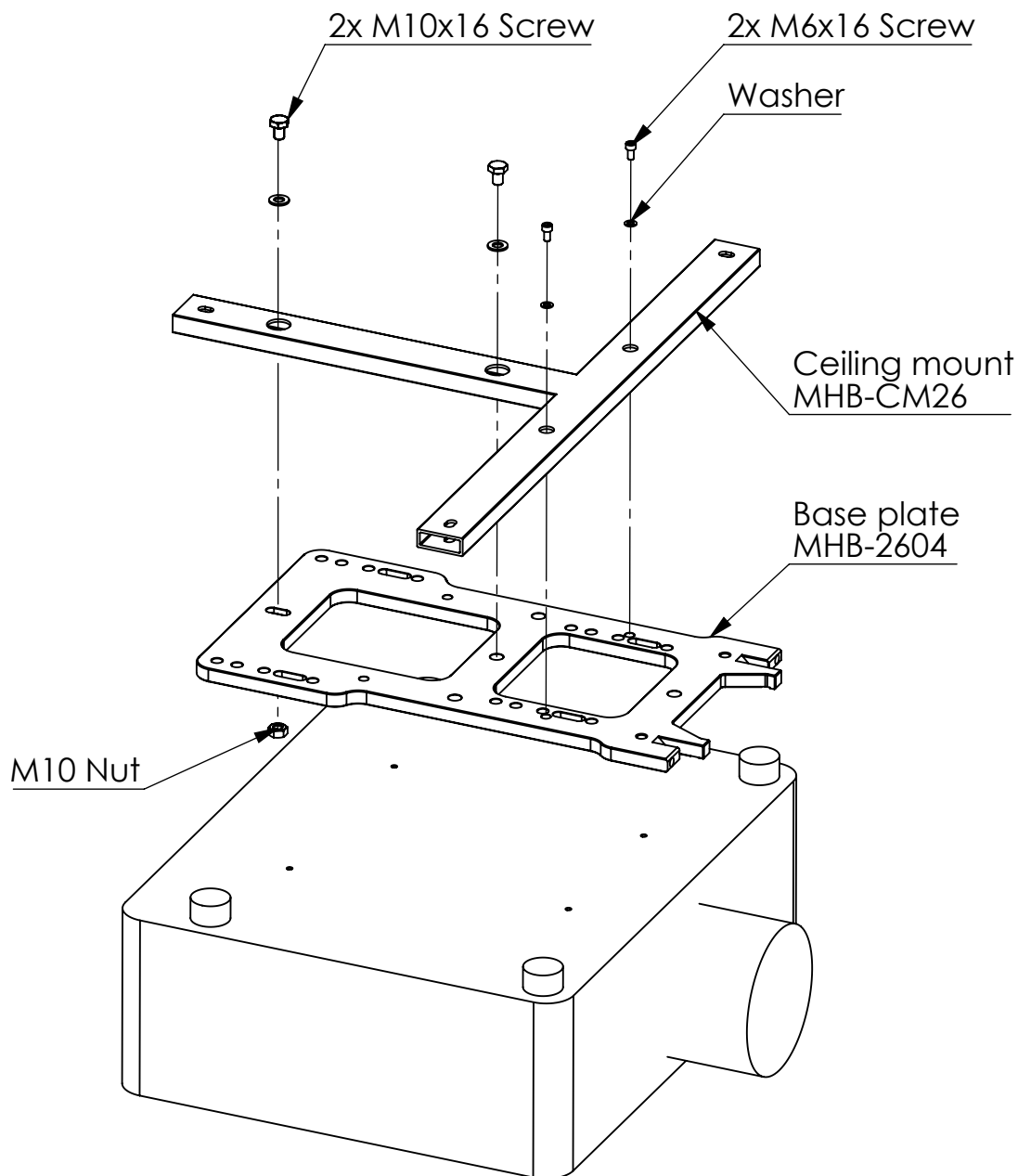




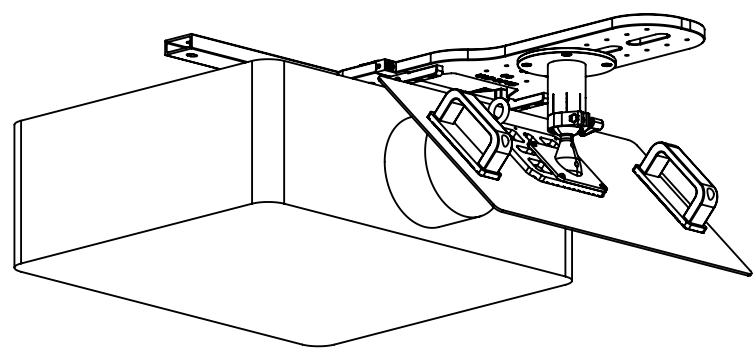
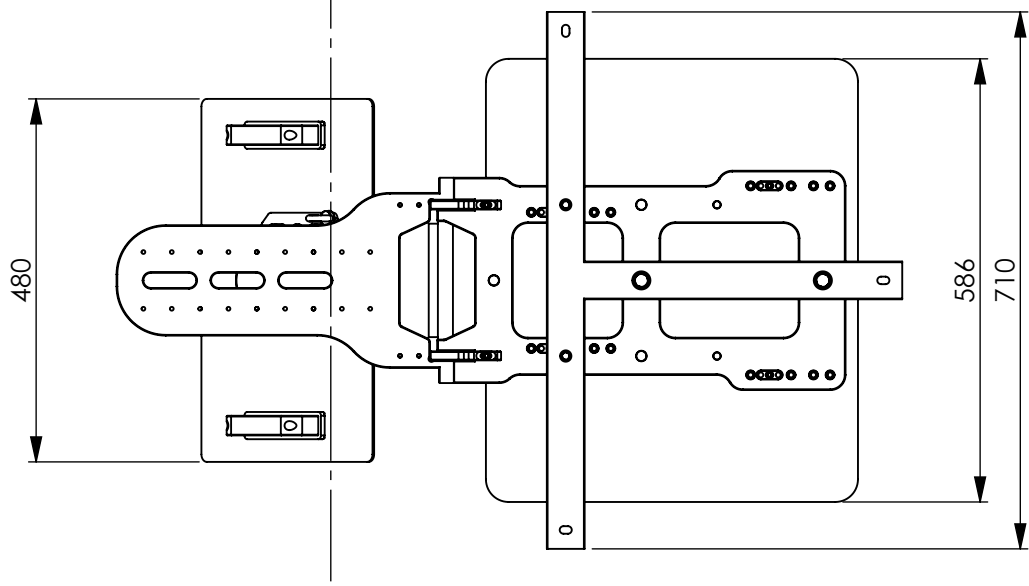
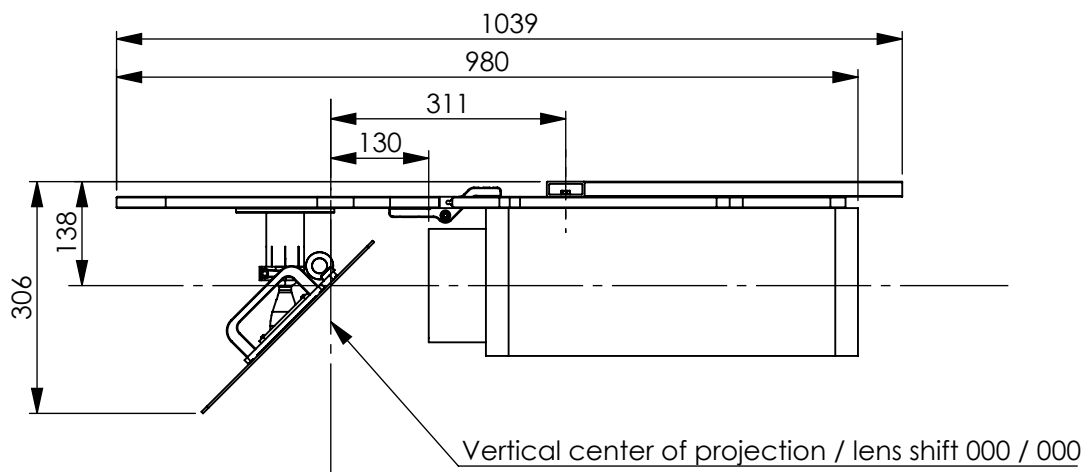
Epson EB-PU2213 / ULS Mirror M480 (ULS Mirror Set / ULS-MB-4808)
Ceiling Mount MHB-CM26

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>

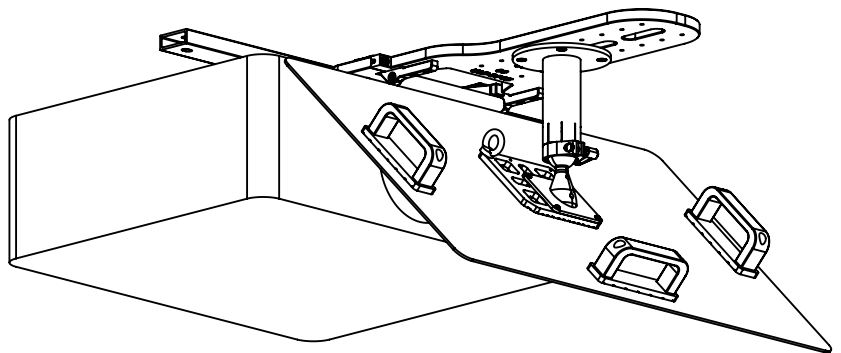
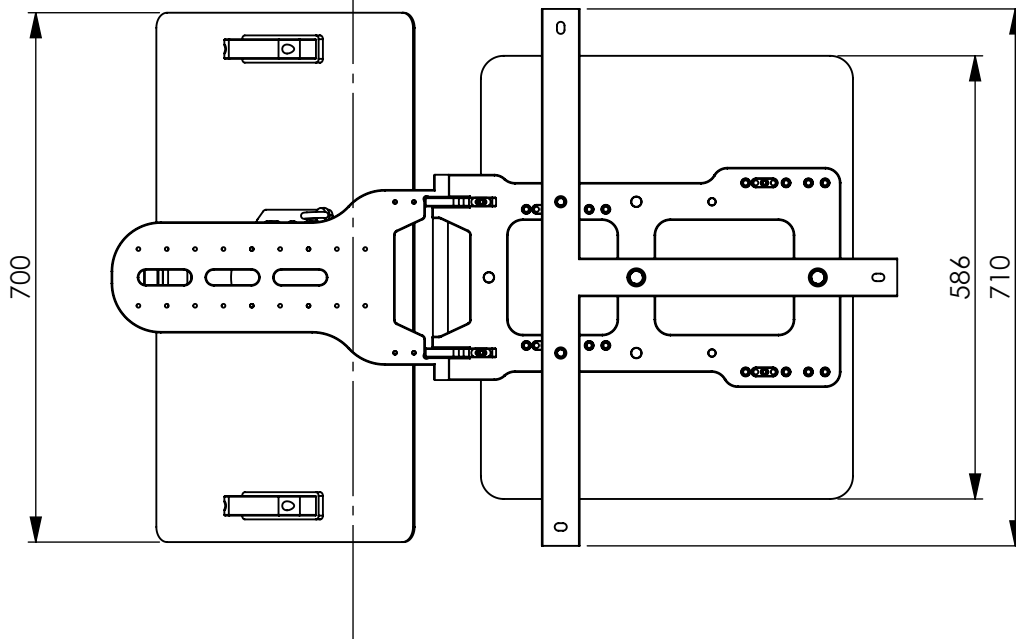
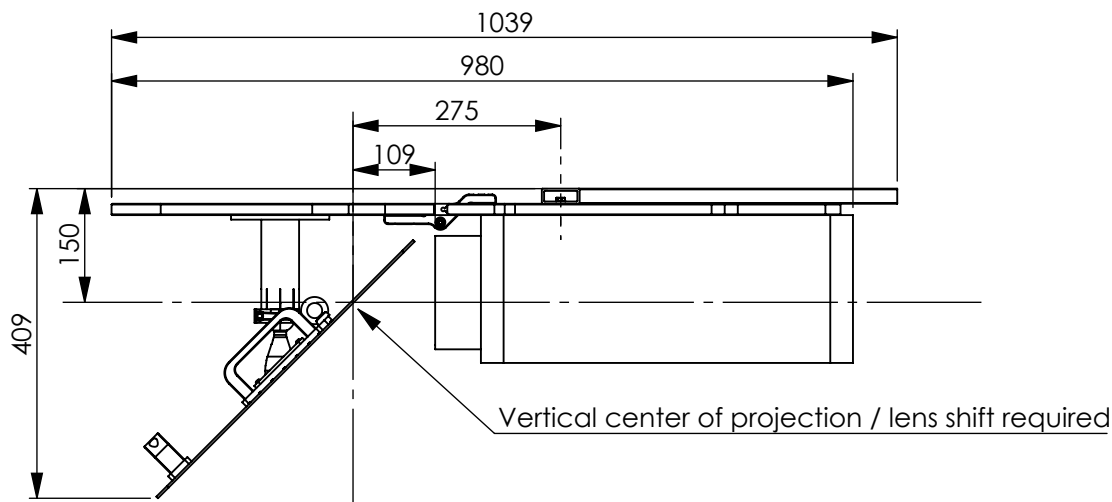


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						 DYNAMIC PROJECTION INSTITUTE		Copyright (c) 2014-2024 by Dynamic Projection Institute Herstellungs und Vertriebs GmbH. All Rights Reserved.	
NAME Stokic		SIGNATUR		DATUM 05.04.2024		BENENNUNG: How to mount the ceiling mount MHB-CM26 to the base plate			
GEZEICHNET						ZEICHNUNGSNR. DPI-MHB-2604_MHB-CM26			
GEPRÜFT									
GENEHMIGT									
PRODUKTION									
QUALITÄT						A4			
						GEWICHT:			
						BLATT 1 VON 1			



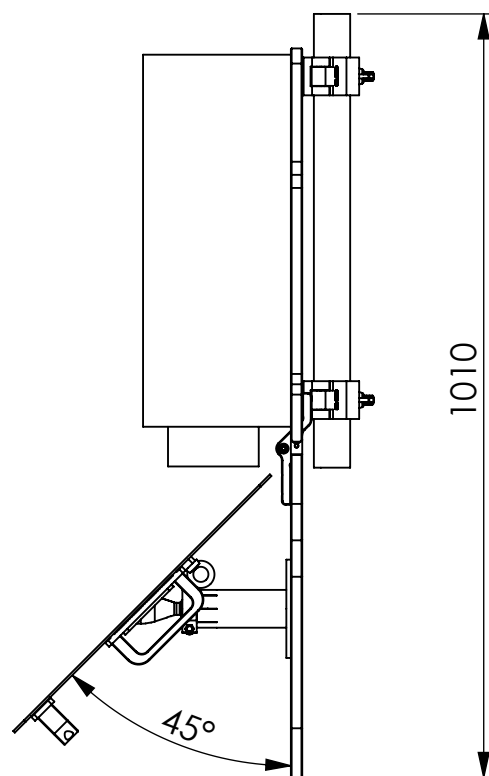
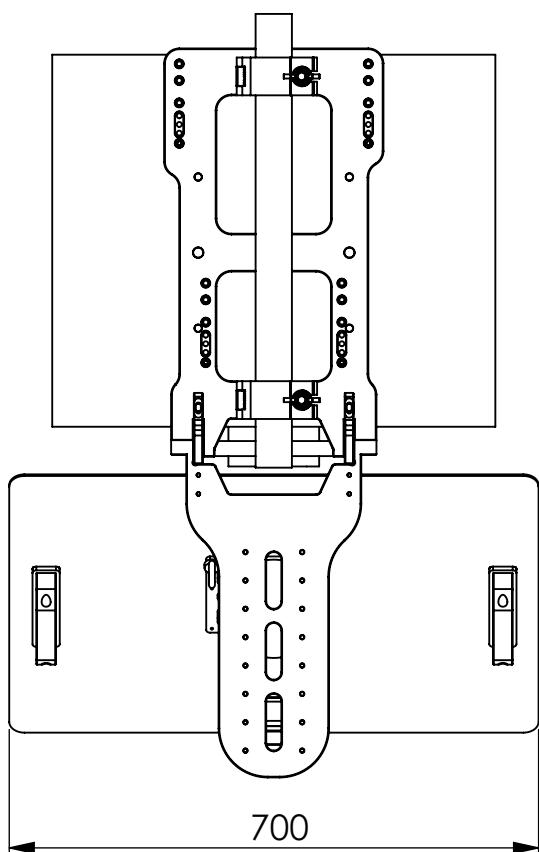
Mirror Size M480 = 480 x 320 mm / Pole P088 - Pos 02 / Projector Plate Pos C

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						BENENNUNG:			
						ULS-MB-4808 + MHB-2604 and Ceiling Mount MHB-CM26 Epson EB-PQ2220 + ELPLU04			
						ZEICHNUNGSNR.		A4	
						DPI-ULS-MB-4808_PQ2220_ELPLU04_CM26			
						MASSSTAB: 1:10		BLATT 1 VON 1	



Mirror Size M700 = 700 x 480 mm / Pole P135 - Pos 02 / Projector Plate Pos C

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						BENENNUNG:			
						ULS-MB-7013 + MHB-2604 and Ceiling Mount MHB-CM26 Epson EB-PQ2220 + ELPLU03S			
						ZEICHNUNGSNR.		A4	
						DPI-ULS-MB-4808_PQ2220_ELPLU03S_CM26			
						MASSSTAB: 1:10		BLATT 1 VON 1	



WENN NICHT ANDERS DEFINIERT: TOLERANZEN:		ROHTEIL:		ENTGRATEN UND SCHARFE KANTEN BRECHEN		ZEICHNUNG NICHT SKALIEREN		ÄNDERUNG	
DIN ISO 2768-1 m						 DYNAMIC PROJECTION INSTITUTE		Copyright (c) 2014-2022 by Dynamic Projection Institute Herstellungs und Vertriebs GmbH. All Rights Reserved.	
NAME		SIGNATUR		DATUM		BENENNUNG:			
GEZEICHNET		Stokic		19.12.2022		ULS Mirror Base Set 70/13 mit Epson EB-PU2216B + ELPLU03S			
GEPRÜFT									
GENEHMIGT									
PRODUKTION									
QUALITÄT				WERKSTOFF:		ZEICHNUNGSNR.		A4	
						DPI-ULS_PU2116_ELPLU03S			
				GEWICHT:		MASSSTAB: 1:5		BLATT 1 VON 1	