

XWAS

Manual stage

1 Basic information

The XWAS stage belongs to the XAX family of manual positioning stages, designed for precise angular and linear adjustment of electro-optical devices during alignment, calibration, and testing. It offers a reliable and cost-effective solution for applications requiring high positioning accuracy without the complexity of motorized systems.

The stage is intended for positioning thermal imagers, VIS-NIR and SWIR cameras, laser modules, and other optical components with respect to collimators or other elements of an optical test bench. Precision lead screws and a rigid mechanical structure provide smooth, stable, and repeatable manual adjustment, ensuring accurate alignment during laboratory measurements, production testing, inspection, and service procedures.



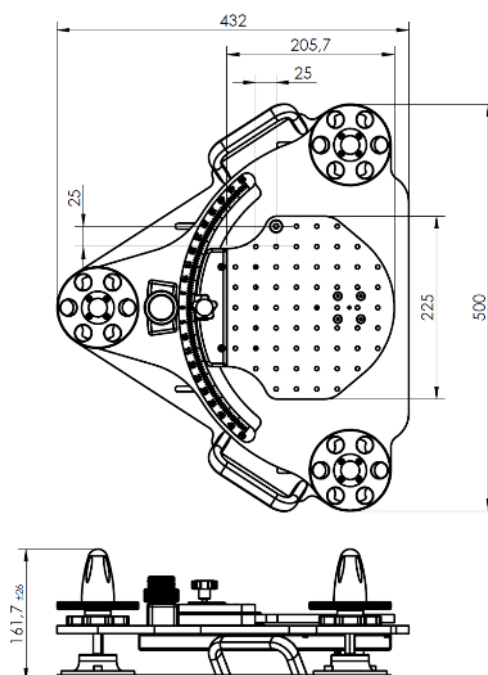
XWAS manual positioning stage

The modular design enables seamless integration into Inframet electro-optical test systems as well as custom laboratory setups. Compatibility with other XAX-series stages allows users to configure multi-axis positioning systems tailored to specific testing requirements.

2. Technical specifications

Parameter	Value
Type	Manual
Load Capacity	15 kg
Azimuth range	$\pm 50^\circ$
Elevation range	$\pm 3^\circ$
The lowest level of mounting platform	53 mm from the optical table surface
Vertical regulation range	± 25 mm continuous (optional raising stages – 50mm step regulation)
Mounting platform size	206 × 225 mm
Weight	~12 kg

All XAX stages can be fixed to typical optical tables with grid of M6 holes spaced by 25 mm, and have the same grid on the mounting platform to fix tested electro-optical device on it.



The drawing on the left presents all dimensions of XWAS manual stage. All XAX stages are compatible optional components that enable easy mount of tested devices:

ORA Optical Rotation Adapter
(mounting platform at 90° angle)

LSP Linear Slide Platform
(mounting platform with linear slide)

RAP Raiser Adapter Plate
(picatinny rail mount)

OMB Optical Mount Base
(optical thread mount)



For more details about XWAS manual positioning stage and available components please contact Inframet sales team.