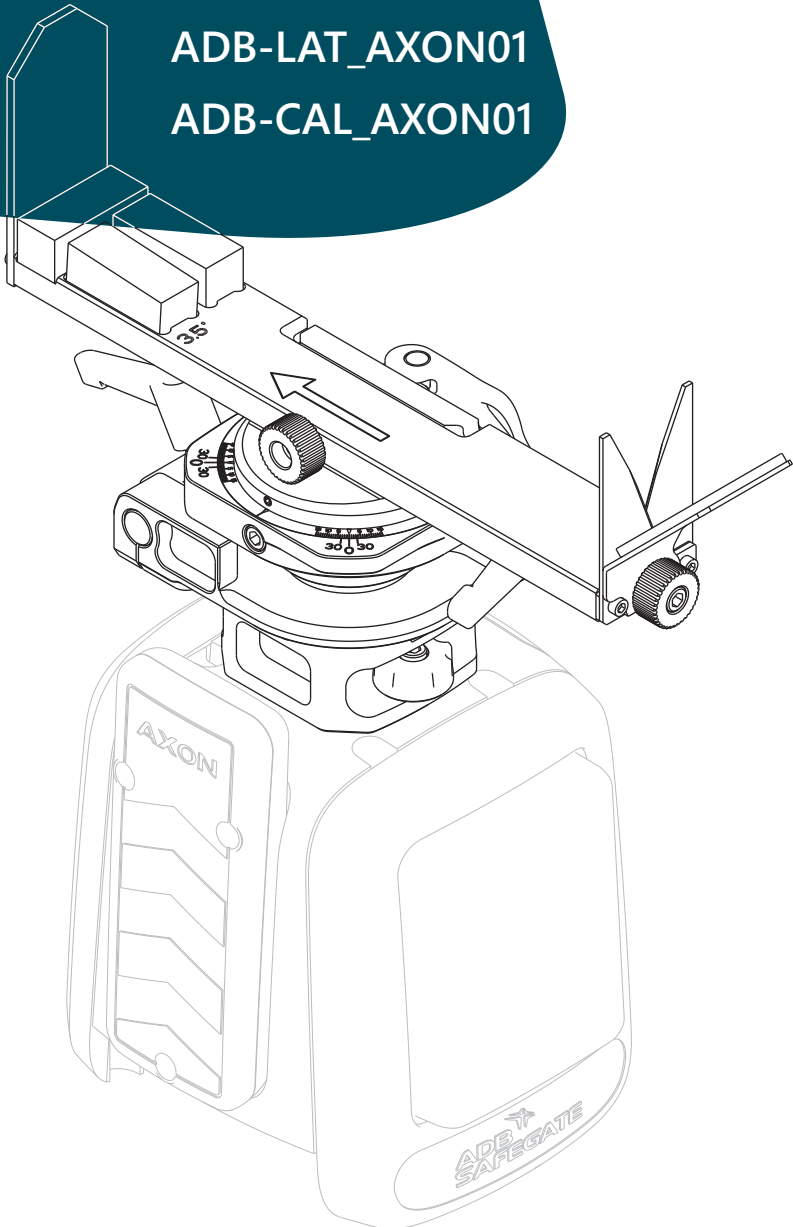


Light Alignment Device

Operation Manual

ADB-LAT_AXON01

ADB-CAL_AXON01



Light Alignment Device

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6. Open Sight Assembly
7. Setting Elevation and Toe-In Angles
8. Open Sight - Spirit Level and Mirror
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Device Instructions

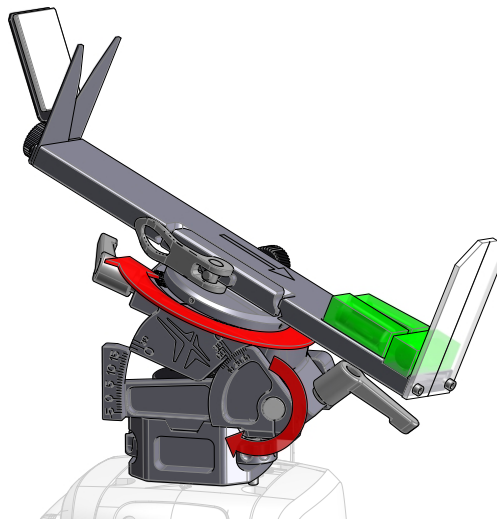
The ADB Light Alignment Device and its accessories have been calibrated and tested prior to shipment.

This tool is a precision instrument designed for manual operation.

Do not overtighten the levers. Tighten them only until the mechanisms are securely in place.

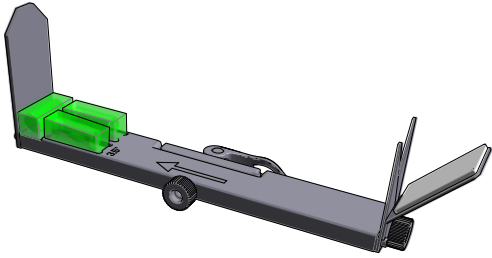
Do not apply oils or grease to the device as it uses self-lubricating polymers.

Handle, transport, and operate this precision instrument with extreme care.

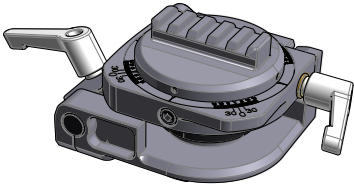


Light Alignment Device

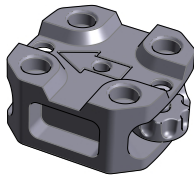
Contents: Light Alignment Device



Open Sight Device



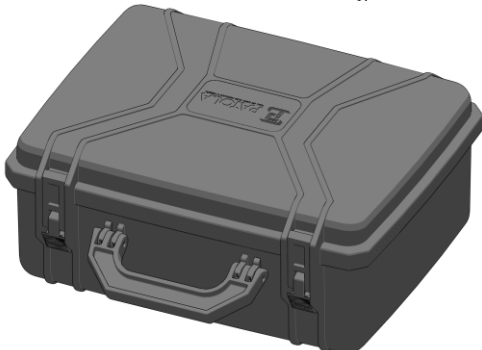
Gimbal Device



Mount Device



Operation Manual



Transport Case

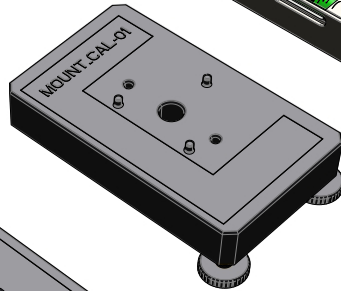
Light Alignment Device

Contents: Calibration Tools

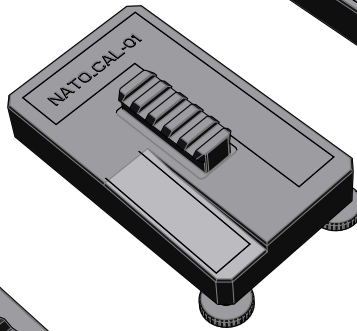
Precision Spirit Level



Mount Calibration Tool



Nato-Mount Calibration Tool



Gimbal Calibration Tool



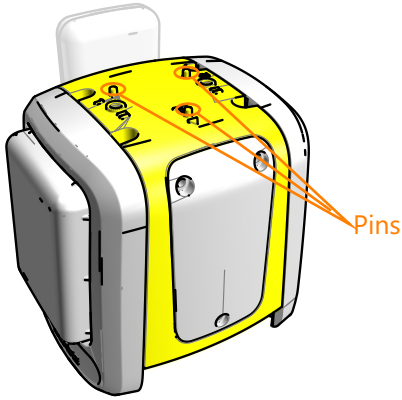
Operation Manual



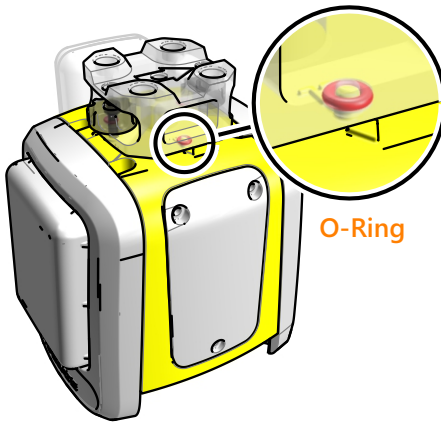
Transport Case

Light Alignment Device

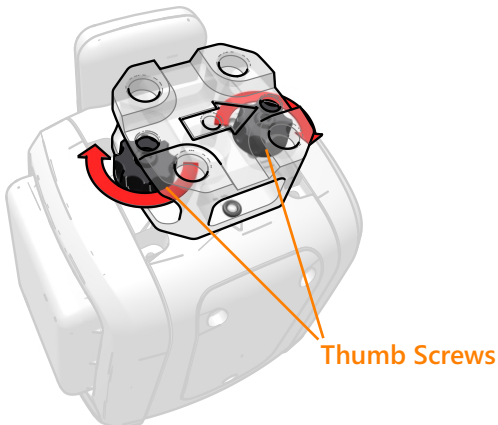
Mount Device Assembly



Align the three holes with inserted o-rings over the three pins on the light housing. Push down to secure Mount.



NOTE:
Replace o-rings when showing signs of fatigue.



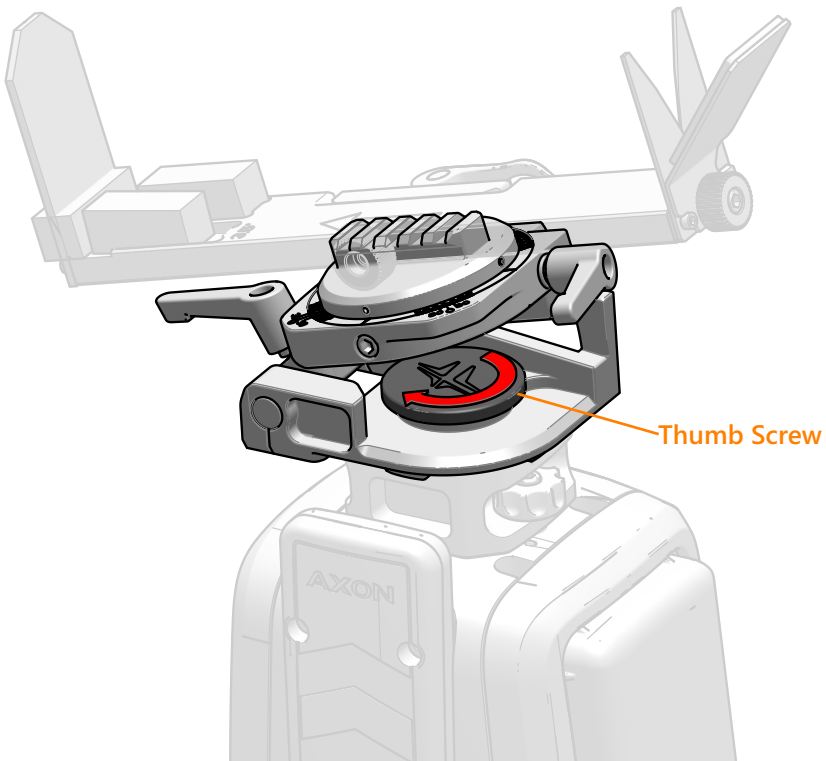
Fasten with two Thumb Screws.

Light Alignment Device

Gimbal to Mount Device Assembly

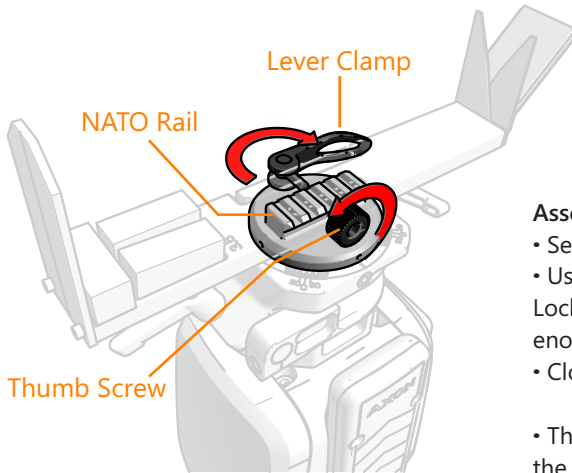
Use Thumb Screw to secure or remove the Gimbal.

Device can be accurately mounted in 90° intervals if the option is required to do so.



Light Alignment Device

Open Sight Assembly

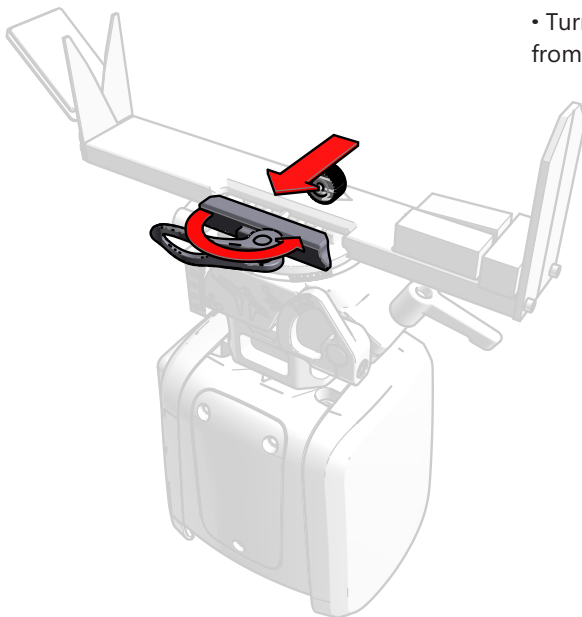


Assembly

- Secure Open Sight to NATO rail.
 - Use Thumb Screw to position the Locking Block and Lever Clamp close enough for Lever to lock Open Sight.
 - Close Lever Clamp to secure Open Sight.
-
- The Locking Block is keyed to keep the Lever Handle in line with Open Sight device. 0° / 180°

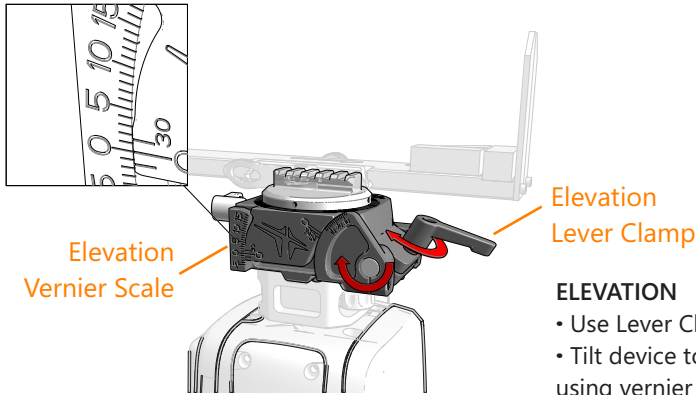
Release

- Lift Lever Handle to unlock Open Sight.
- Turn Thumb Screw to clear the Open Sight from the Gimbal when releasing.



Light Alignment Device

Setting Elevation and Toe-In Angles

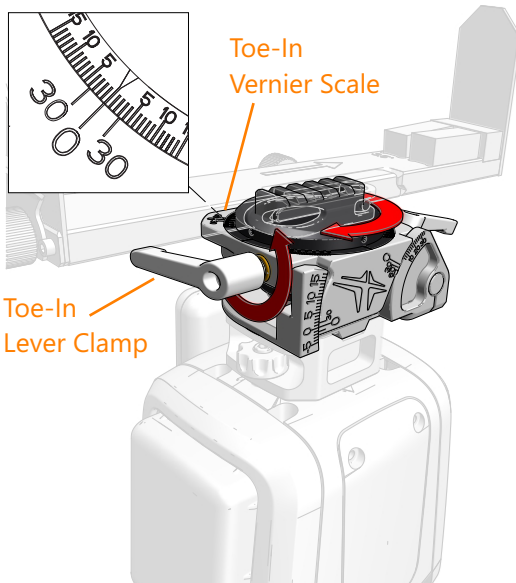


Elevation
Lever Clamp

Elevation
Vernier Scale

ELEVATION

- Use Lever Clamp to loosen device.
- Tilt device to required angle by hand, using vernier scale readout as positional reference. -5° $+35^{\circ}$
- Slightly secure Lever Clamp for finer adjustment
- Check scale for position.
- Secure lever clamp



Toe-In
Vernier Scale

Toe-In
Lever Clamp

TOE-IN

- Use Lever Clamp to loosen device.
- Rotate device to required angle by hand, using vernier scale readout as positional reference. 360°
- Slightly secure Lever Clamp for finer adjustment.
- Check Scale for position.
- Secure Lever Clamp.

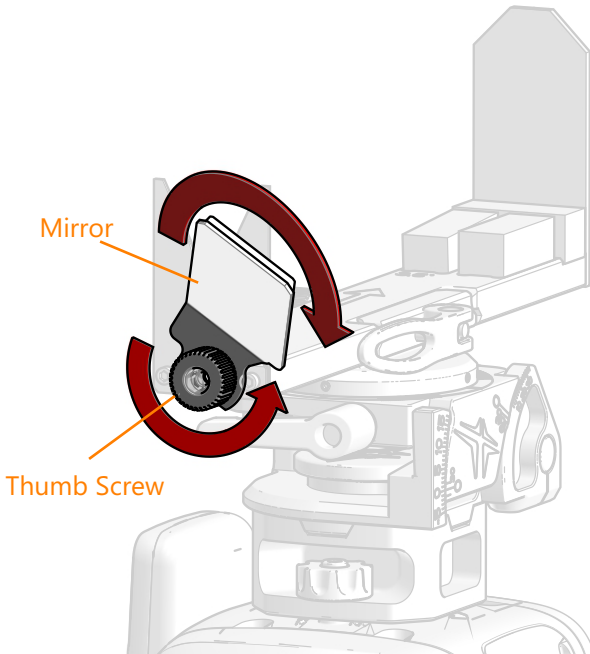
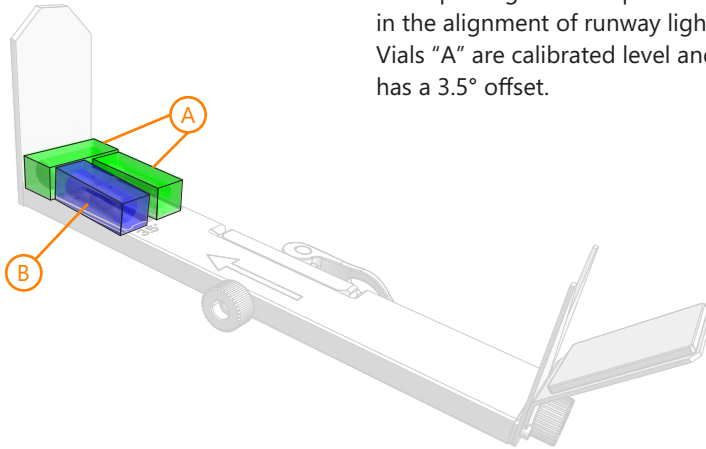
Light Alignment Device

Open Sight - Spirit Level and Mirror

Spirit Level

The Open Sight has 3 Spirit Level vials to assist in the alignment of runway lights.

Vials "A" are calibrated level and vial "B" has a 3.5° offset.



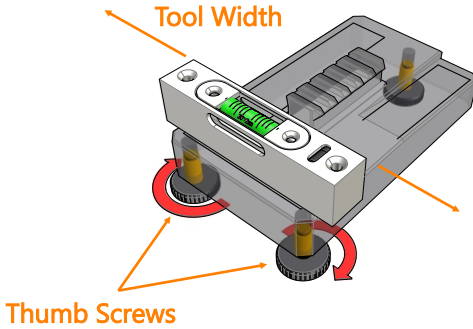
Mirror

The Mirror can be loosened and tilted away with the Thumb Screw.

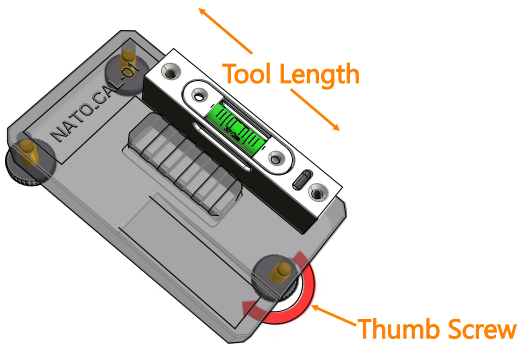
Light Alignment Device

Calibration Tools: Levelling Instructions

Follow same instructions for all Calibration Tools.

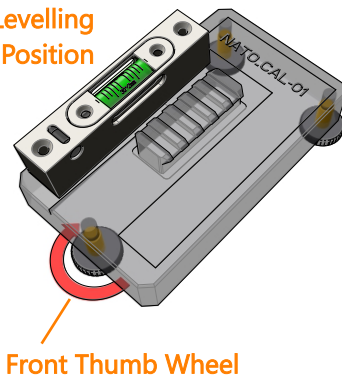


- Place Tool on a flat surface.
- Place Spirit Vial along width of Tool over Back Thumb Wheels.
- Adjust Thumb Wheels until Spirit Vial is level.



- Place Tool on a flat surface.
- Place Spirit Vial over length of tool
- Adjust Thumb Screw to get Spirit Vial in level position.

3.5° Levelling Position



NATO-RAIL: Additional 3.5° Calibration Plane

- Place Tool on a flat surface.
- Place Spirit Vial over length of tool in 3.5° opening.
- Adjust Thumb Screw to get Spirit Vial in level position.

