

# EO/IR Payload Mounts & Boresight Equipment

CAPABILITY SHEET - MOUNTS + RETRACTION MECHANISMS + BORESIGHT EQUIPMENT - ENGINEERED TO ORDER

## THE SYSTEM

|          |                                                                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHAT     | Mounts, deployment mechanisms and boresight equipment for electro-optical and infrared payloads - the mechanical and alignment layer, not the sensor. |
| OUR ROLE | Neometrix engineers the mounts and interfaces, retraction and mast mechanisms, gimbal mechanics, alignment equipment, fixtures and qualification.     |
| STATUS   | Delivered against a won order for boresight and alignment equipment. No delivered payload mount or retraction mechanism is claimed.                   |

## THE MOUNT

|                  |                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| ERROR BUDGET     | The mount takes an allocated share of the pointing error - machined datum schemes, kinematic location, matched thermal growth. Not a bracket. |
| RESONANCE        | Stiffness placed so no structural mode sits inside the stabilisation loop's bandwidth - a compliant mount argues with the control loop.       |
| REPEATABLE REFIT | Remove and refit must land in the same place, measured and accepted - or the re-alignment gets deferred, and then skipped.                    |

## DEPLOY & PROVE

|                  |                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| MECHANISMS       | Retractable arms, telescoping and hoistable masts, cradles - positive locking both states, stowed sealing, limit stops, manual override.  |
| QUALIFIED LOADED | Vibration, shock, temperature, salt fog and altitude with a representative mass and inertia dummy fitted - never empty.                   |
| BORESIGHT        | Theodolite, collimator, inclinometer and calibrated bar - bench, on-platform and operator re-verification, on a certificate with numbers. |

## DISTINCT & HONEST

|                |                                                                                                                                                                                          |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOT THE SENSOR | Detectors, optics and stabilisation electronics stay with the payload supplier and are usually export-controlled. We build what holds them.                                              |
| OUR FRANCHISE  | Mounts, mechanisms, fixtures and alignment equipment are ours; bearings, drives, slip rings and reference instruments are bought-in certified.                                           |
| ENGAGEMENT     | Send the payload mass, interface and environment with the platform's axes to <a href="mailto:sales@neometrixgroup.com">sales@neometrixgroup.com</a> for a compliance matrix in two days. |

## DEFENCE PROGRAMMES DESK

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