

Optical System Integration - Mobile Platforms

CAPABILITY SHEET · CFE INTEGRATION MODEL · UNDER CONTRACT - DEFENCE R&D

THE CAPABILITY

WHAT	Design and manufacture of integration hardware, and integration of customer-furnished optical systems on mobile platforms - semi-trailer, truck-mounted and shelterised - integrated and verified end to end.
STATUS	Under contract with an Indian defence research establishment; builds on vehicle-integrated systems delivered across programmes (transportation modules, charging vehicles, mobile test facilities).
MODEL	Customer-furnished equipment (CFE): the optical payload stays the customer's in specification and custody; Neometrix works from jointly frozen interfaces - NDA-friendly by construction.

INTEGRATION DISCIPLINES

STRUCTURE	Payload mounting structures with machined alignment interfaces and datum features; stiffness engineered to pointing needs; levelling and stabilisation provisions; safe payload installation and removal.
POWER	On-board auxiliary power generation and distribution panels; conditioned, protected, segregated feeds to payload and electronics; earthing and bonding schemes.
THERMAL	Payload thermal management sized to dissipation and stability requirements; climate-managed electronics volumes; ingress protection; transport covers and shrouds for optics.
CONTROL & EMC	Interlocks and safety chains through the platform; connectorised looms with service loops for moving axes; interface panels to the customer's connector standards; EMI/EMC routing, shielding and bonding practice.

PRACTICE & VERIFICATION

DESIGN PRACTICE	Military environmental and EMC practice of the MIL-STD-810 / MIL-STD-461 class, applied as engineering discipline; formal qualification scoped per contract.
VERIFICATION	Factory checks on integration hardware; integration with the payload; end-to-end verification against agreed acceptance criteria before handover at site.
CONFIDENTIALITY	Configuration parameters are customer-specific and not published; engagements run comfortably under NDA from the first conversation.

FORMATS & ENGAGEMENT

FORMATS	Semi-trailer decks for the heaviest payloads; truck-mounted platforms; shelterised and containerised electronics volumes; fixed-site adaptations of the same architecture.
PAYLOAD CLASSES	EO sensors and observation instruments; tracking and range-instrumentation optics; test and measurement optical systems.
ENGAGEMENT	Send your requirement to sales@neometrixgroup.com - clause-by-clause compliance matrix and budgetary quotation within two working days. Export subject to GoI authorisation.

DEFENCE PROGRAMMES DESK

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Scope reflects how optical-platform integration is contracted. Configuration parameters are defined against each customer requirement and are not published.