



OBSERVATION



DETECTION



HYPERION

Electro-Optical Tracking System

A multi mission trajectory system

HYPERION aims to track swift moving targets and capture any time space position information.



hemeria



Applications

- High velocity targets test campaigns
- Fire-control systems practice
- Airdrops training
- Space launches

Main features

- Multi targets tracking
- Best-in-class accuracy
- Long range
- Plug and play extensive sensors catalogue
- Easy to deploy and operate



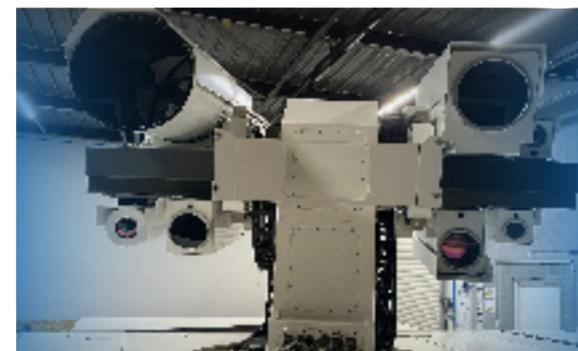
Customer's sensors can also be integrated

Sensors

18 different optical sensors
To cover the entire spectral range: visible, NIR, SWIR, MWIR, LWIR.

- Among our offer:
- Triple focal telescope
 - High speed camera
 - Multispectral analysis camera

- 2 ranging sensors**
- Doppler: long range & all-weather tracking
 - Laser range finder: short range up to 20km with 1m accuracy



Pedestal

- High dynamic pointing accuracy
- Payload capacity up to 600 kg
- Robust and waterproof design for harsh environments
- Direct drive motors
- GPS antenna for reference positioning
- Optical girder for sensors auto alignment

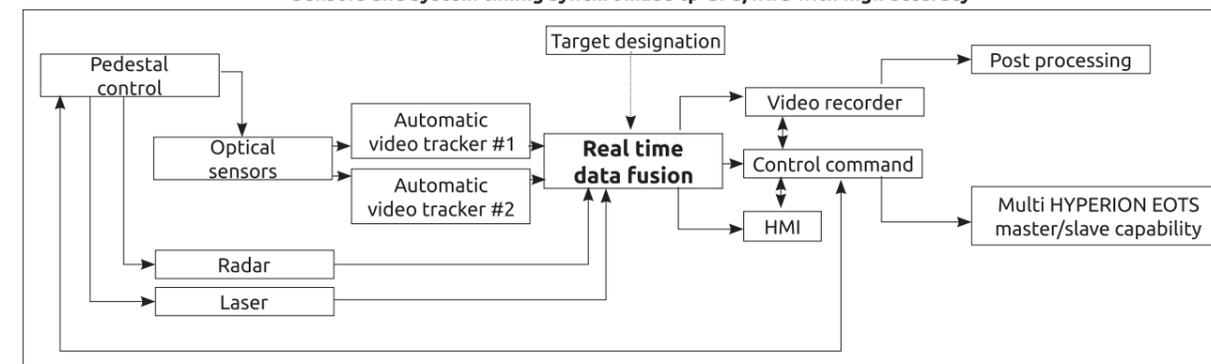


Platforms and mobility options

- Pedestal embedding options:
- Fixed, under a heavy duty, tempest proof, clamshell dome
 - Mobile with trailer:
 - Classic bi-axle trailer or ultra-compact trailer
 - Quick set up
 - Automatic protective cover

Software suite

Sensors and system timing synchronized to GPS/IRIG with high accuracy



Real time tracking



Mission planning



Operator training

Operator console



- Enables HYPERION remote control
- Highly configurable Human-Machine Interface
- Ergonomic design
- Set up options:
 - Within customers' existing system
 - Within an operations center
 - Within a shelter on site: turnkey shelter can be provided by HEMERIA



Test campaigns

- Weapons: missiles, guided bombs
- Aircrafts: fighter jets, drones, helicopters
- Rockets

Training

- Flight tests
- Airdrops
- Target and decoy practice



Space launch

- Micro launchers
- Space launchers
- Atmospheric reentry: launcher's stages, debris

ABOUT HEMERIA

As a strategic player in Defence and Security, Hemeria combines the excellence of French engineering, the robustness of an efficient industrial tool and a high value-added service culture. For more than 30 years, its teams have designed, produced and maintained critical systems in response to the highest operational requirements, from the ocean floor to infinite space.

From design to production, we develop bespoke systems to observe, detect, communicate and protect—wherever performance is vital.

KEY FIGURES

70 M€
in revenues

5
industrial sites

400
talents

20,000
sq-m of industrial facilities



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