

hemeria

hyperion®

(multi-sensors EOTS)

HEMERIA designs, produces and maintains HYPERION, a high performance, compact, tailor made payload electro optical targeting system capable of tracking swift moving targets and capturing Time Space Position Information.

- Automatic target acquisition and multi target tracking
- Easy calibration with plug & play sensor
- Full remote control via optical fiber link
- Radar allowing all-in-one single station solution
- Customizable HMI to fit in perfectly with the mission
- Delivered with control center and data processing tools

land & naval

choice made by French Defence

applications

TRAJECTOGRAPHY, OBSERVATION, ATTITUDE

Watch our movie



hyperion®

performances

Nominal payload	320 kg
Maximum payload	up to 600 kg with reduced accuracy and performance
Azimuth angular freedom	0 - 360° continuous
Elevation angular freedom	-15° / +195°
Maximul azimuth speed	2 rd/s (115°/s)
Maximum elevation speed	2 rd/s (115°/s)
Maximum azimuth acceleration	2 rd/s² (115°/s²)
Maximum elevation acceleration	2 rd/s² (115°/s²)
Dynamic pointing accuracy at 1rd/s & 1rd/s²	10 µrad @ 2σ
Perpendicularity	6 µrad @ 2σ

combination of a wide range of sensors

Technology	Full digital video system
Optical sensors	High resolution optical sensors in visible, SWIR, MWIR or LWIR spectral range Triple focal telescope High speed camera Multispectral analysis camera
Doppler radar	40 km range with 0,5m² RCS target
Laser range finder	10 Hz continuous repetition rate for accurate tracking 1 m range accuracy 20 km maximum range Eye safe
Spectroradiometer	Radiometric accuracy of IR signature
Automatic video tracker	Optimized for flight tests Multi target tracking Dual acquisition windows Criteria to filter and discriminate echoes Up to 2 each per EOTS unit

advanced features

Real time trajectory calculation & display	2D/3D trajectory display, integration of all EOTS units High speed servo loop control to optimize tracking performance Dual head high resolution encoder to improve precision Real time line-of-sight stabilization to improve precision (naval version) Timestamping of measures and video stream down to the millisecond via GPS or IRIG source
Video recording	Video and meta data recorded in MXF files format Up to 6 full HD SDI 1080p50 videos recorded
Several EOTS units working together	Multi EOTS units C2 Master / slave capability One or several operators Inter & Intra EOTS unit data fusion to improve tracking
Mission management tools	3D view simulation on digital ground model 2D/3D mission planning Post mission analysis software
Rugged design	Long equipment life (MIL STD 38999 connectors) Long-term support guaranteed For use in harsh environments (salt, wind, sand, dust) Brushless motors Heavy-duty clamshell dome

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