

**Stand-off optronic reconnaissance system for day & night and adverse weather conditions and across a range of tactical and strategic mission scenarios.**

- ▷ Invaluable tool for national intelligence supremacy
- ▷ Full compliance with NATO standards
- ▷ In service and combat proven with French Air Force and Navy



AIRBORNE OPTRONICS

## AREOS

Airborne REconnnaissance Observation System







## AREOS

### Airborne REconnnaissance Observation System

#### MISSION

From recce sensor to Image INTelligence (IMINT)

- Provides a unique day/night imagery intelligence (IMINT) capability for detection, reconnaissance and identification at stand-off ranges as well as very low altitudes and high speeds.
- Saves precious time in the sensor-to-shooter loop to meet evolving combat demands including the new requirements of peace-keeping operations.
- Combat-proven with the French Air Force and Navy on board the Rafale F3 and connected to C4ISR

#### KEY FEATURES

Easy to operate

No radio communications are involved, overcoming any risk of misunderstanding and further shortening cycle times for detection, decision and action.

State-of-the-art imaging technologies with high-performance datalinks and automatic imagery collection modes for single-seat aircraft

- 2 large focal plane arrays for visible and infrared imagery with simultaneous dual-band collection
- Main optics with 2 fields including telescope and providing continuous high resolution close and long stand-off views
- High speed IR line scanner for panoramic acquisition at very low altitudes

- Operational flexibility through line of sight agility and autonomous and opportunity modes

RMS (Recce Management System) incorporating advanced operational functions for line search, multiple pin-point, stereoscopic data acquisition, pin point High Definition video mode, datalink management or digital recording in the pod:

- 2 mobile antennas used to transmit high rate image data within the optical range (350 km)
- 1 service link antenna used for monitoring and tracking the pod by the ground receiving station (without rendez-vous)
- 1 high capacity digital removable media (1TB)

#### MODULES

- Mission planning software (sensors selection, recording options and data link programming) including coverage and performance simulation
- Mobile ground antenna terminal for real time or differed time imagery transmission
- Ground Image Exploitation Station for real time exploitation of recorded data, integrating image processing and dissemination to the C4ISRs via secure networks

