

Conto Automatica 75.65 Elevation (5.65 Ranges 2.36m Sizer 2.06m X 0.46m









Enhancing military systems through Al

Current C-UAS challenges

- Large number of objects from different directions must be recognized, classified & tracked
- Defence systems are oversaturated by the number of threats, threats must be prioritized and selectively combated
- Diverse sensors are in the field with different strengths/weaknesses



 Human in/on the loop: Complex situation hardly controllable for humans as decision-makers

Software defined defence solution

- Fusion of various existing sensors to achieve the best result depending on the situation
- Optical identification of new threats with EO/IR is independent of databases & enables humans to make qualified decisions



 Hardware independence for fast integration into existing sensor & C2 systems

Edge solution is resilient to interference and works at low bandwidth



Control Azionemi 75.95 Elevation 45.0 Range 2.3km Sher 2.3km



Multi-Domain AI + Computer Vision





ED web: BHEB (97%) Asimothy 47/02 Electrical (19-3) Banger Shine

Counter-UAS with AirScout



- AI-based processing of the EO/IR sensors (neural networks / machine learning)
- Fast automated response to detections by the primary sensor (radar)
- → Shorter reaction time, less work for the operator
- Automatic classification, visual verification by "human in/on the loop" still possible
- Precise position data with high update rate for effectors



 Sensor-agnostic solution (only integration of camera interface required)

Example: Maritime reconnaissance (coastal-based system)

- Surveillance of a coastal area (surface / low airspace) using a scanning camera (thermal)
- Automatic tracking and classification using a verification



camera (EO/IR)