

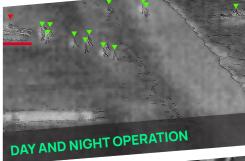
Person Person

UNCREWED SYSTEMS

👶 F C R T I F A I

Powered by

PRECISION TARGETING





Visual AI force multiplier for cross-domain autonomy

FortifAl is a state-of-the-art, low-SWAP (Size, Weight and Power) visual intelligence solution designed to automate one or many uncrewed aerial, surface, or ground vehicles. Offering a high level of operational flexibility, our selection of operator augmentations can be seamlessly integrated onboard the vehicle with our AIR processor, or alongside the ground control station using our UK-manufactured tactical Artificial Intelligence Module - AIM.

Deeper real-time insight: FortifAl is a turn-key computer vision platform that extends beyond standard object detection or tracking. By integrating multiple synergistic Deep Neural Networks, we enhance situational awareness and facilitate more informed decision-making. Our expanding suite of features operate concurrently in real-time and include human behavioural risk analysis, ANPR, armed person identification, object colour recognition, precision landing on optical markers, face redaction, geospatial tagging, and GNSS-denied visual navigation.

Rapid system Integration: Our seamless integration process allows rapid testing of FortifAl within your existing infrastructure. We support a growing range of open-source and industry-standard protocols, such as MavLink, and our own QGroundControl plugin. One edge device can process two video streams concurrently, as well as steer two vehicles and two pan and tilt cameras.

TIME-CRITICAL THREAT ANALYSIS

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CROSS-DOMAIN AUTONOMY



USES EXISTING INFRASTRUCTURE



COST-EFFECTIVE SOLUTION







KEY FEATURES

- Automatically find and geo-tag objects of interest
- Precision control of camera and drone platform
- Behaviour recognition including 'armed' person
- 1x edge device supports 2x video/vehicle/gimbal
- Operates on daylight, SWIR, MWIR and LWIR sensors
- Vision-based GNSS-denied navigation

APPLICATIONS



HARDWARE OPTIONS







O CONTROL O

AIR

SPECIFICATION

Al Performance	NVIDIA Orin NX 16GB (100 TOPS), Nano (40 TOPS)		
Object Types	1: Person, vehicle, drone, bird, plane, face, heli, boat 2: Person, car, large vehicle, bike, number plate, weapon, face 3. Drone, plane, helicopter, bird, AerialObject 4.Various Maritime		
Interoperability	MAVLink NextVision ONVIF Profile S NMEA 0183 SAPIENT Herelink Parrot Anafi USA RTSP WebRTC DJI	Platform control and status Camera control Camera control and status AIS track input and GPS input C-UAS data exchange standard Processed video output Platform status Video input and output Video playback in web browser Coming soon	
Storage	128 GB to 2 TB NVMe SSD		
	AINA AIR	ΛID	

Storage	120 GD to 2 TD INVINIE SSD			
1/0	AIM GbE - USB 2 - RS485/422 2x HD-SDI CVBS	AIB GbE 2x USB3 A 2x USB 2 HDMI	2x USB 2	
DC Voltage In	12-28VDC 30 watts peak, AIR Nano 7-10 watts			
Environmental	-20 to +55C ambient, AIM IP-67			
Dimensions	AIM: 225 x 130 x 52mm, 1350g AIB: 110 x 130 x 60 mm, 760g			

AIR: 91 x 61 x 52mm, 125g inc fan and storage

Specifications subject to change.













