Vizgard

Powered by

FORTIFAI

DRONE - 1 45ft

Bird

Drone #7

AUTOMATIC RECOGNITION

Drone ID: 29 3.04

PRECISION TARGETING

360°

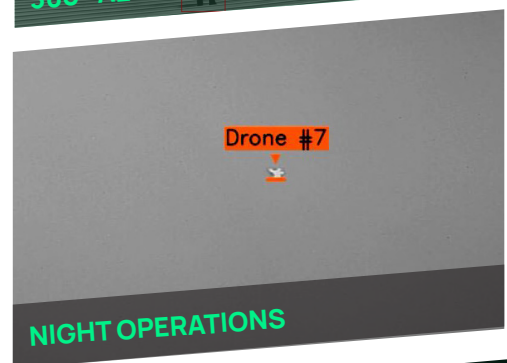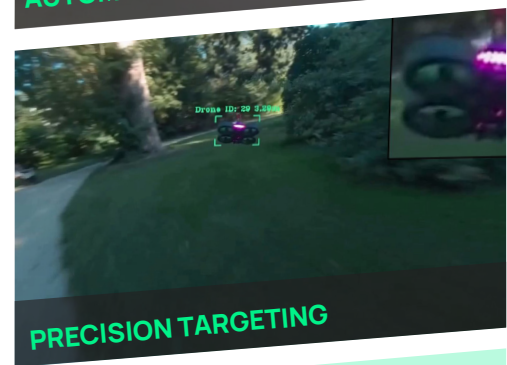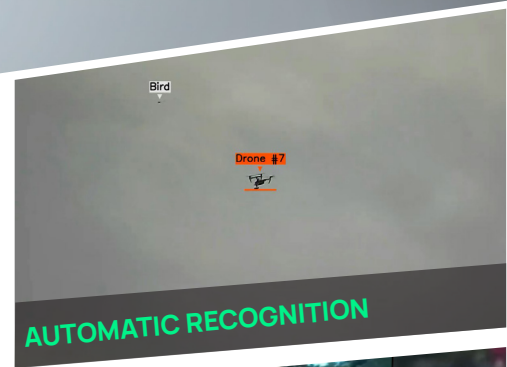**360° AERIAL PROTECTION**

Drone #7

NIGHT OPERATIONS

Visual AI force multiplier for cross-domain autonomy

Safeguard your critical assets and reputation with FortifAI, our cutting-edge, camera-agnostic Artificial Intelligence (AI) and sensor fusion solution. This state-of-the-art, low-SWAP (Size, Weight and Power) visual intelligence system minimises operator workload through advanced automation of multiple supporting counter-drone camera platforms across land, air, and sea. FortifAI transforms existing 'dumb' steerable cameras into a coordinated network of semi-autonomous teammates capable of identifying even the most elusive, radio-silent drones.

Fusion for reduced false alarms: FortifAI minimises false alarms from external sensors like Radio Frequency (RF) detectors and Radars, informing the operator of only genuine threats and maintaining a persistent visual of even small, agile, low-flying threats. While awaiting further tasking, FortifAI can provide a 180° passive 'sky scan' of the local area or 360° by concurrently steering two co-located and controlled cameras.

Rapid System Integration: Our streamlined integration approach ensures rapid deployment within your existing C-UAS solution by utilising our expanding support for industry-standard protocols like SAPIENT, for third-party system interoperability and ONVIF for camera control.

FortifAI is already a proven asset, securing the "world's longest drone flight corridor" as part of a substantial multi-million-pound UK national infrastructure initiative.

TIME-CRITICAL THREAT ANALYSIS	CROSS-DOMAIN AUTONOMY	USES EXISTING INFRASTRUCTURE	COST-EFFECTIVE SOLUTION

Designed, built and supported in the UK 🇬🇧

VIZGARD is a multi-award-winning AI company building a safer future with advanced camera platform automation
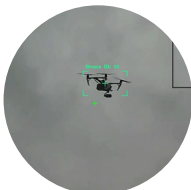
Vizgard

Drone-Fixed-Wing ID: 30

KEY FEATURES

- ✓ **Passive 360° alerting for nearby unapproved UAS**
- ✓ Radar/RF fusion to verify and reduced false alarms
- ✓ Precision platform control to maintain target lock
- ✓ Scalable collaboration of air and ground C-UAS assets
- ✓ Plug-and-play with growing list of C-UAS technologies
- ✓ Operates on Visual RGB, SWIR, MWIR and LWIR sensors
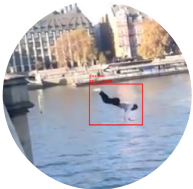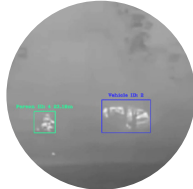
FORTIFAI APPLICATIONS

ISR

Counter-UAS

Perimeter security

Suicide prevention

Counter-terrorism

Covert surveillance

HARDWARE OPTIONS

AIM

AIB

AIR

SPECIFICATION

AI Performance	NVIDIA Orin NX 16GB (100 TOPS), Nano (40 TOPS)
Object Types	1: Person, vehicle, drone, bird, plane, face, helicopter, boat 2: Person, car, large vehicle, bike, number plate, weapon, face 3. Drone, plane, helicopter, bird, aerial object 4. Various maritime

Interoperability		
	MAVLink	Platform control and status
	NextVision	Camera control
	ONVIF Profile S	Camera control and status
	NMEA 0183	AIS track input and GPS input
	SAPIENT	C-UAS data exchange standard
	Herelink	Processed video output
	Parrot Anafi USA	Platform status
	RTSP	Video input and output
	WebRTC	Video playback in web browser
	DJI	Coming soon

Storage	128 GB to 2 TB NVMe SSD

I/O	AIM	AIB	AIR
	GbE	GbE	2x GbE
	-	2x USB3 A	USB3 C
	USB 2	2x USB 2	2x USB 2
	-	HDMI	Mini DP
	RS485/422	-	-
	2x HD-SDI	-	-
	CVBS	-	-
	-	-	CAN
	-	-	2x CSI 4 Lane
	-	-	2x I2C
	-	-	I2S
	-	-	2x UART
	-	-	SPI
	-	-	M.2 Key-E 2230

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.

Defence and Security Accelerator

tech UK

JOSCAR

Crown Commercial Service *Supplier*

ADS

ACE Powered by vivace