Busy operators monitoring several video feeds?

Don't leave your security to chance. Leverage existing security infrastructure with innovative, automated visual Artificial Intelligence that alerts to perimeter intrusions in real-time, enabling rapid response and intervention.

AI-powered, autonomous, 24/7 protection: FortifAI provides advanced, edge-based, low-latency, automated perimeter surveillance capabilities for ground-based and airborne bad actors. By layering several state-of-the-art AI algorithms, FortifAI automatically detects, tracks and classifies without human involvement and provides granular human behavioural analysis to prioritise the potential threat.

Reduce false alarms: FortifAI's proprietary per-individual or vehicle 'Behavioural Risk Index (BRI)' constantly assesses whether detected objects behaviour warrants further investigation based on easily customisable decision rules. Once the threshold for human intervention has been met, FortifAI alerts the operator to intervene and autonomously steers one or more ground or airborne camera assets to maintain persistent eyes-on.

AI-assisted decision making: Our approach keeps a 'human in the loop' while reducing operator burden and creating resource efficiencies. One operator can control multiple surveillance feeds, safe in the knowledge that our advanced AI is proactively monitoring in the background 24/7.

Rapid System Integration: Our seamless integration process allows rapid testing of FortifAI within your existing infrastructure. We support a growing range of open-source, industry-standard protocols, 3rd party perimeter sensor and video management systems.

TIME-CRITICAL THREAT ALERTS

BEHAVIOURAL RISK ANALYSIS

MULTI-CAMERA AUTOMATION

LONG-RANGE GEO-TAGGING

TIME-CRITICAL THREAT ANALYSIS

AUTOMATIC OPERATION

USES EXISTING INFRASTRUCTURE

COST EFFECTIVE SOLUTION

Designed, built and supported in the UK 🇬🇧

Vizgard

KEY FEATURES

- Rapid deployment of high-performance AI on the edge
- Automated detection, camera control and tracking
- Behavioural recognition includes 'armed' person
- 1x edge device supports 2x video inputs
- Operates on daylight, SWIR, MWIR and LWIR sensors
- Easily integrates with existing infrastructure

APPLICATIONS

Critical Infrastructure

Military Sites

Borders

Airports

Prisons

Transport & Maritime

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. Maritime various

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.