

FORTIS

NANO UAS

Overview

Fortis is a Sub 250 gram, Nano Unmanned Air System, designed and manufactured in the UK, which is a lightweight, rapidly deployable and simple to operate tactical asset. It features a high resolution EO camera and optional IR camera enabling indoor, outdoor, day or night reconnaissance. While the adaptable mission payloads enable the operators to dynamically adapt the system in support of the situation.

Application

Defence, Law Enforcement, Gov
Immediate Situational Awareness
Beyond Visual Line Of Sight ISR
Indoor or outdoor operations

Advantage



Rapid deployment

Deployable within 80 seconds, to achieve real time situational awareness.



Tactical advantage

Provides organic ISR in a timely manner, enabling friendly forces to gain the tactical advantage.



Simple to operate

Lightweight and portable, total carryable system <2kg, easy to use with minimum training.



Adaptable

Field swappable payloads enable operators to immediately adapt the system in support of the situation



Resilient

Operational in hostile and demanding conditions, dynamic RF and data encrypted to AES256



Specifications

Physical	Specification
Weight	Air Vehicle < 250 grams
	Total System < 2 kilograms
Dimensions	23 cm (unfolded) 11cm (folded)
Imaging	
EO	1080p
Infrared	250x190
Payloads	
Removeable,	Thermal, Distractor, details on request
Performance	
Endurance	upto 30 minutes
Speed	Indoor: 1.5m/s Outdoor: 12m/s
Datalink	
Range	upto 4km
Frequency	Details on request
Performance	Dynamic, Encrypted AES256, BVLOS
Environmental	
Temperature	-10 °C to +40 °C
Navigation	
GNSS (outdoors)	Return to Home/Link Loss
GPS Denied	Indoor and Outdoor
Mapping	Online/Offline Maps, Geotiff
Flight Modes	
User Control	Semi Autonomous Manual Flight
Autonomous	Mission Plan and Waypoints
Safety	Return to Home, Lost link
Data Security	
Video/Images/Meta	AES256 Encrypted
Power	
Common Battery	Removeable & Rechargeable
Charging	230/120v, 12v Vehicle, USB, BA5590
Interoperability	
Platform	ATAK Compatible

Technical Images



Figure 1, Fortis folded and unfolded in hand.

Downlink Imagery



Figure 2, EO downlink imagery

Figure 3, IR downlink imagery (indoor and outdoor)

