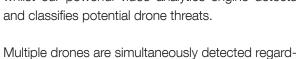
Sky Patriot



Sky Patriot - Powerful UAV Detection and Classification System

- ✓ Powerful Optic Based UAV Detection
- ✓ Passive System
- ✓ Detection, Classification and Tracking
- ✓ Over 1Km Detection Range
- ✓ Powerful Video Analytics
- ✓ Easily Expandable
- ✓ Integration with Drone Elimination Systems

Sky Patriot helps your organisation to detect, classify and track drones. Passive ultra high definition optic sensors constantly monitor pre-defined airspace whilst our powerful video analytics engine detects and classifies potential drone threats.





Sky Patriot

less of trajectory or background noise. The operator is continuously updated and alerted to drone activity and presented with information about the type of drone and corresponding flight path.

Our extensive analytics library contains numerous drone optic signatures, and these are used to both classify the drone, together with the potential for harmful payload detection. Moving background objects such as birds, vehicles and people are filtered out to allow an operator to focus only on potential threats by minimizing false alarms.

All video and analytics derived meta data is stored for evidence gathering.

The option of integrating thermal cameras with Sky Patriot ensures that the detection and classification of drones is as reliable at night or day.



Patriot Datasheet

Thermal Sensor

Tau 2 640 (640 x 512 17u) Core type Spectral Band 7.5 - 13.5um

Performance <50mK @ f/1.0 Frame Rate 9/25/30fps (PAL/NTSC)*

Pixel pitch Lens 150mm

Optic Sensor

Image Sensor Lens Day / Night Illumination Shutter Time

Progressive scan RGB CMOS 1/2.8" 4.3-129mm, HFOV 63.7 -2.3 Automatically removable infrared filter Color 1.0 lux at 30IRE, B/W 0.03 lux

1/10,000s to 1s 30x Optical

Video

Zoom

Video Compression Resolutions

Uncompressed, H.264, Motion JPEG

3840 x 2160 UHD

1920x1080 HDTV 1080p to 160x90

Frame Rate Up to 50/60fps Streaming Multiple H.264 streams

User Interface

Client Connection Client OS Supported Web browser

Windows, macOS, Android, iOS, Linux

Operator Functionality

UAV Threat Level UAV Positioning

UAV detected, UAV classified UAV azimuth, altitude **UAV GPS coordinates**

UAV distance

UAV Mapping Video Recording Map overlay with UAV positions

24 hours+recording

Event replay

Telemetry Logging

All logs/events recorded

Physical

Dimensions 520mm x 260mm

Weight 5Kg Enclosure IP rated Casing Perspex Acrylic Pole Mount 4" Diameter

Detection / Classification Specifications

Detection Range

22.5° FOV, 500mm UAV, ~1Km

Simultaneous Detection

Drone Detection Size

Drone Clasification Types Detection Speed Drone Detection Time

Background Masking Video/Data Logging

System Initialisation time Azimuth/Altitude Error

2.8 FOV°, 500mm UAV, ~ 8Km

1-10+ Drones

DJI, 3DR, Parrot, Others On Request

Up to 25m/s

90 frames / 3.6 seconds

None/Partial/Full Custom Masking

4 seconds

±0.02° (base on 22.5° FOV)

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