

SKYPATRIOT HUNTER

SOLUTION FOR
OPTICAL DRONE
DETECTION



SkyPatriot Hunter

Optical Detection, Classification & Tracking

- ❖ Up to 2km Range
- ❖ Full 360° Coverage
- ❖ Provides Video Evidence
- ❖ UAV Detection & Classification
- ❖ 98% Detection & Classification Accuracy
- ❖ Integrates Easily with Radar or RF Technology
- ❖ Patented Pending



SkyPatriot Hunter detects, tracks, and identifies drones at a distance of up to 2 kilometres away using advanced artificial intelligence video analytics software to accurately distinguish drones from birds, clouds, and other moving objects.

Rinicom's patented technology is mounted on a high-speed pan/tilt head with 360° continuous movement to quickly turn towards rogue drones. The pan/tilt head can be controlled manually, set on an auto-rotation mode or can be controlled autonomously taking cues from integrated radar or RF based technologies.

SkyPatriot Hunter utilises high-resolution detection cameras, powerful pan/tilt/zoom cameras and rich AI-based video analytic software to detect, identify and track unwanted UAVs.

The passive solution can be deployed as a singular detection tool or as part of a layered solution, however, a dedicated operator is not required to control the system. SkyPatriot Hunter will rotate, detect and classify autonomously. An audio and visual alarm will be raised once a drone has been classified.

Datasheet

SkyPatriot Hunter

Physical

Operating Temperature	-10° to +40°
Operating Humidity	100% relative humidity, non-condensing
Power	110-240VAC
Weight	50kg
Dimensions (HxWxD)	70cm x 75cm x 50cm (excluding tripod)
Weather Rating	IP67 equivalent

*Physical specs may change depending on modular setup

UAS Detection

Type of Detection	Passive, Optical
Detection Range	Up to 2km for Phantom Sized UAV
Tracking Mode	Continuous
Fixed Camera Vertical FOV	40°
Fixed Camera Horizontal FOV	60°
Object Detection Time	<2 seconds
DCM Resolution	5472 x 3648 Per Camera
Pixels to Detect	1-2 Pixels

Classification Performance

Classification Range	HD Video, 1km for Phantom
Pixels Needed for Classification	10 pixels
Classification Time	<2s
Classification Accuracy	98%, Base on False +ve
Analytics AI Engine	InSight Proprietary
UAS Classification Library	Multi-rotor
Non-UAS Classification Library	TBA
PTZ Resolution	1080p HD, 1920 x 1080
PTZ Zoom	30x mechanical

Classification I/Os

Technology	AI InSight Machine Learning
Network	Gigabit Ethernet
Camera Connector	(16x) CSI-2 Lanes
M.2 Key M	NVMe
M.2 Key E	PCIe x1+USB 2.0+UART/I2S/PCM
40-Pin Header	UART + SPI + CAN + I2C + I2S + DMIC
HD Audio Header	High-Definition Audio
eSATAp + USB3.0 Type A	SATA Through PCIe x1 Bridge
HDMI Type A	HDMI 2.0

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SkyPatriot Hunter

InSight Physical

Dimensions (HxWxD)	223x209x134mm / Rack Mount Option
Operating Temperature	-25°C to + 80°
Operating Humidity	85°C / 85% RH, 168 touts
TDP	15W

Pan & Tilt Head

Pan & Tilt Speed	0.0064°/sec - 50°sec
Pan & Tilt Resolution	0.0064°/sec (with micro step)
Pan Range	360° continuous
Tilt Range	+30° to -90°

Control & Video

Video Analytics	Rinicom InSight
Camera Control	Autonomous
Classification	Autonomous
Detection	Autonomous

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