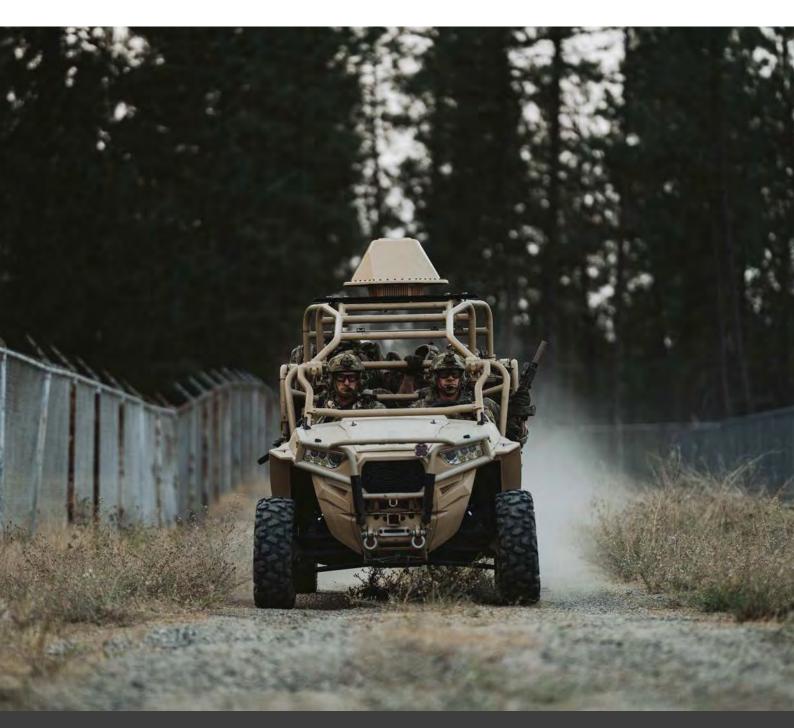




Product Brochure

DroneShield reserves the right to modify specifications without notice Purchase of this equipment is subject to export license approval.







Drone Gun MKIII

Lightweight Handheld Countermeasure

Item No. 500



Defeat Range Up to 1km



2.4Ghz, 5.8Ghz, 433Mhz, 915Mhz



Weight 2.1kg (4.7lb)



GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS

APPLICATION

The Drone**Gun MKIII** is a compact, lightweight drone countermeasure designed for one hand operation. It is highly effective against a wide range of commercially available drone models. The Drone**Gun MKIII** is capable of intercepting and disrupting the control and navigation of multiple drones simultaneously. Drone**Gun MKIII** covers all five major GNSS frequencies.

Activation of RF or optional navigation GNSS (GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS) signal disruption will either cause the drone to;

- Automatically revert to an immediate vertical descent and engage in a controlled landing, or
- Hover close to the ground until the drone's batteries are near depletion initiating a controlled vertical landing, or
- 3. Return to starting point or "home" which would assist in finding the operator

RF disruption activation can also be used to interfere with live video streaming (FPV) between the remote controller and the drone, halting the collection of video footage and intelligence by the drone operator.

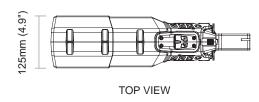
Compact integration of the antenna with the device ensures effective directionality and a safe environment for the operator. The directional antenna focuses energy where it matters most, maintaining a targeted area of effect and reducing the potential for collateral disruption to friendly RF systems.



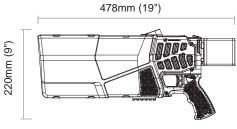




Performance	
Effective Range	Up to 1km (0.62miles) Beyond Visible Line of Sight (BVS) Disruption on UAS operating on consumer and commercial ISM frequencies
Effective Frequencies	2.4GHz ISM, 5.8GHz ISM 433MHz (operator toggle), 915MHz (operator toggle) GNSS L1, GNSS L2 (operator toggle; GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS)



Product Specifications	
Battery Nominal Voltage	10.8VDC
Unit Weight	2.14kg (4.72lbs) including battery
Colour Options	Black, Desert Tan



Battery Specifications		
Features	(AN/PRC 152) Rechargeable Lithium-Ion Battery Quick release and reload battery operation Cap Charger available for continued use	
Battery Life	Up to 2 hours	
Start-up Time:	< 3 secs	

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Environment	
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Ingress Protection	Designed to IP55



Compliance		
	Certifications	TAA and Berry Compliance

Shipping & Warranty		
Shipping	Ships in a Rugged Carry Case (IP67)	
Dimensions	640mm x 410mm x 220mm (25.20" x 16.14" x 8.66")	
Total Weight Shipped	8.9kg (19.62 lbs) including carry case	
HS Code	8543.70.9090	
Warranty Time Frame	12 months from date of shipment	

Contents	
Carry Case Contents	DroneGun MKIII Device Single Point Sling 1 x NATO-Grade Battery Battery Charger Quick Start Guide

Disclaimer:

Laws limiting the availability of DroneGun MKIII to certain types of users may apply in other jurisdictions, and any sales will be conducted only in compliance with the applicable laws. DroneGun MKIII affects only frequencies at 2.4Ghz, 5.8Ghz, 433Mhz, 915Mhz and GPS/ GLONASS/ Galileo/ BeiDou/ NAVIC/ QZSS. Emergency broadcasts, cellphone communication and other dedicated channels will not be affected.





DroneGun Tactical

Long Range Countermeasure

Item No. 300



Defeat Range Up to 2km



2.4Ghz, 5.8Ghz, 433Mhz, 915Mhz



Weight 7.3kg (16.1lb)



GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS

APPLICATION

The Drone**Gun Tactical** is a fully integrated rifle style, safe countermeasure against a wide range of drone models. Its design allows it to be highly portable and is capable of disrupting multiple RF frequency bands simultaneously.

Activation of RF or optional navigation GNSS (GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS) signal disruption will either cause the drone to;

- Automatically revert to an immediate vertical descent and engage in a controlled landing or.
- 2. Hover close to the ground until the drone's batteries are near depletion initiating a controlled vertical landing, or
- 3. Return to starting point or "home" which would assist in finding the operator

Drone remains intact and available for forensic investigation. Intended disruption of the video transmission to drone operator. The product is packed in a rugged carry case.

Certifications

The only drone countermeasure product on the market with the following safety Certifications:

DRAM (Dommages dus aux Rayonnements Electromagnetiques sue les Armes et Munitions): Safety standard on proximity to weapons and ammunition (Europe)

DREC (Dommage dus aux Rayonnements Electromagnetiques sue les Carburants): Safety Standard on proximity to fuels (Europe)

DREP (Dangers des Rayonnements Electromagnetiques non ionisants sue le Personnel): Personnel safety standard (Europe)

SAR (Specific Absorption Rate): Personnel safety standard (Australia/New Zealand)







Disruption Performance	
Effective Frequencies	2.4GHz ISM, 5.8GHz ISM, 433MHz, 915MHz GNSS L1, GNSS L2 (operator toggle; GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS)

Product Specifications		
Voltage	14.4VDC	
Effective Range	Up to 2kms (1.24 miles)	
Rifle Weight	16.1lbs (7.3kg) (including 2 x batteries)	
Colour Options	Black, Desert Tan	
NATO Stock Number	5865661650137	

Scope (optional)	
Options	Shaded 30mm prismatic sight 11 brightness settings (4 night-vision, 7 daytime)

Battery Specifications		
Battery	Rechargeable Lithium-Ion Battery NATO-standard military grade or commercial options available Quick release and reload battery operation	
Safety	Complies and tested against Australian and International SAR safety levels for occupational exposure to Radio Frequency Fields	
Battery Life	2+ Hours (Aggregate operational time per charge)	
Start-up Time	< 3 secs	

Environment & Operation	
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Ingress Protection	Designed to IP54

Shipping & Warranty	
Packaging	Ships in a rugged carry case (IP67)
Dimensions	1190mm x 530mm x 210mm (46.85" x 20.87" x 8.27")
Total Shipped Weight	18kg (39.7 lbs) - including carry case
HS Code	8543.70.9090
Warranty Time Frame	12 months from date of shipment

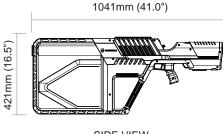
Contents	
Carry Case Contents	DroneGun Tactical Rifle Single Point Sling 2 x DroneGun Tactical NATO-Grade Batteries Battery Charger Quick Start Guide Scope (optional)

Disclaimer:

Laws limiting the availability of DroneGun Tactical to certain types of users may apply in other jurisdictions, and any sales will be conducted only in compliance with the applicable laws.

DroneGun Tactical affects only frequencies at 2.4Ghz, 5.8Ghz, 433Mhz, 915Mhz and GPS/ GLONASS/ Galileo/ BeiDou/ NAVIC/ QZSS. Emergency broadcasts, cellphone communication and other dedicated channels will not be affected.













RfPatrol MKII

Compact Wearable UAS Detection

Item No. 112 Subscription No. 112-1



Detection Range Up to 4km



2.4Ghz, 5.8Ghz, 433Mhz, 868MHz, 915Mhz



AI/ML Engin



Weight 1.2kg (2.6lb)

APPLICATION

The Rf**Patrol MKII** is the next generation wearable drone detection device with improved durability, size and functionality.

The device offers the user real situational awareness without distraction or complex operation. Rf**Patrol MKII** has been designed to be highly effective for a variety of operators in a range of demanding environments.

The Rf**Patrol MKII** can be worn, deployed on the ground or in a vehicle. It can be operated in two modes, 'Stealth' and 'Glimpse', allowing the user to control how they receive alerts.

The device is supported by a device manager that allows operators to keep their device's database up to date with the changing threat environment as well as the ability to download logs and add filters.

Highly Ruggedised Design

Tested to IP67

Tested to MIL-STD-810G and MIL-STD-810H

Reinforced construction to withstand unforgiving environmental conditions

DroneShield Advanced Technology

Integrated Software Defined Radio capability for compact application Detects both custom protocol and Wi-Fi RF links
Device Manager - software upgrade tool allows for capability expansion Future proofed hardware and software for product longevity





Performance	
Detection Range	High RF Environment (Urban) - up to 1km (0.62 miles) Low RF Environment (Rural) - up to 4km (2.48 miles)
Detection Type	Line of Sight, Omni
Detection Time	<5secs (known frequency)
Detects	Drone Video & Control links

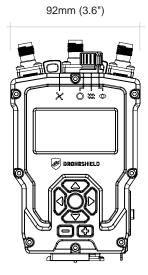
Product Specifications	
Weight	1.2kg (2.6lbs) (including battery)
Colour Options	Matte Black, Desert Sand
User Feedback	Visual, Haptic, Audio
Technology	Software Defined Radio

Battery & Power	
Battery	(AN/PRC 152) Rechargeable Lithium-Ion Battery, quick release and reload battery operation Common NATO-standard military grade
Nominal Voltage	10.8VDC
Operating Time	10+ Hours (Continuous operation) Pass through charger available for extended use
Start-up Time	< 3 secs
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Battery Dimensions	71mm x 41mm x 86mm (2.8" x 1.6" x 3.4")
Battery Weight	380g (0.83lbs)

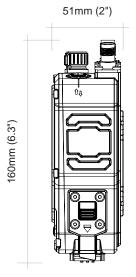
Environment	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Ingress Protection	Tested to IP67
MIL-STD-810G	High temp, Low temp, Temp shock, Vibration, Shock
MIL-STD-810H	Humidity

Shipping & Warranty	
Packaging	Ships in a Rugged Carry Case (IP67)
Case Dimensions	525mm x 430mm x 215mm (20.6" x 16.9" x 8.4")
HS Code	85269130
Warranty Time Frame	12 months from date of shipment

Contents	
Carry Case Contents	RfPatrol MKII Device 1 x BT-70716BG Battery Battery Charger (PT) 2.4/5.8GHz Omni Antenna 433MHz Omni Antenna 868-915MHz Omni Antenna Custom Carry Pouch Quick Start Guide Update Cable (7 pin to RJ45) RJ45 to USB Converter Audio Cable (3 pin to audio) Vehicle Power Cable 3 x TNC extension cables 3 x Antenna pouches



FRONT VIEW



SIDE VIEW



RfPatrol Magnetic Roof-Mount Antenna

Vehicle Mounted Wide-Band Antenna

Item No. 108-28



Rapidly Deployable



2.4Ghz, 5.8Ghz, 433Mhz, 868MHz, 915Mhz



AI/ML Engine



Weight

APPLICATION

The RfPatrol Magnetic Antenna kit provides full RfPatrol detection capability when it is mounted inside the vehicle.

The antenna attaches with strong magnets to the roof of a vehicle requiring no specialized installation. A single cable is routed inside the vehicle cab connecting to the V-Mount / Triplexer.

Rf**Patrol** can stay active after the operator has left the vehicle utilizing the rapid detachment system for on-the-go situational awareness.

Magnetic Wide Band Antenna	
Frequencies	433MHz, 868MHz, 915MHz, 2.4GHz, 5.8GHz
Installation Requirement	Install on ferrous metal flat plane without obstructions
Weight	1450g (3.2lbs)
Dimensions	195mm x 195mm x 175mm (7.7" x 7.7" x 6.9")

Effective Frequencies	
Mounting System	VESA 75
Weight	340g (0.75lbs)
Dimensions	90mm x 90mm x 45mm







DETECT .

DEFEAT

SLIDDORT

RfPatrol DF Kit

Versatile Direction Finding

Item No. 086







2.4GHz, 5.8GHz



AI/ML Engin



DAU Weight 700g (1.54lbs)

APPLICATION

The Rf**Patrol DF** (Direction Finding) **Kit** significantly enhances the capabilities of the RfPatrol device. The products included with each DF kit provide a seamless transition between omni-directional UAS detections and direction finding via the Rf**Switch**.

For end users requiring the highest degree of accuracy and range, the **DAU** (Directional Antenna Unit) provides unrivalled range and certainty. For end users requiring the most compact and unobtrusive solution, the body-worn patch antenna keeps the hands free and weight down.

RfSwitch

The Rf**Switch** allows the user to switch from omni-directional detection to directional detection without the need to disconnect any RF cables, effectively eliminating system downtime. The device is highly compact and is attached to the body via a MOLLE clip.

RfPatrol DAU

The Directional Antenna Unit is a powerful direction finding tool, enabling users to determine a UAS direction with up to 45 degrees of certainty. The process of direction finding is quick with this product, taking less than 60 seconds from first detection to a confirmed direction.

Directional Patch Antenna:

A body-worn directional patch antenna, placed in the front plate-carrier. The antenna is extremely compact at 80x80mm (3.1" x 3.1") and can connect to the RfPatrol directly or via the RfSwitch.



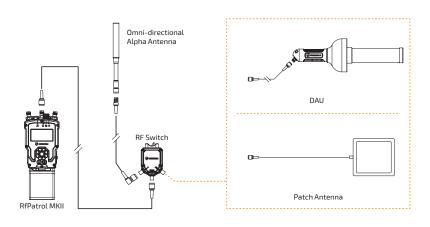
RfSwitch	
Item No.	108-29
Toggle Positions	2
Connector Type	TNC(f)
Mounting	MOLLE Clip (1.5")
Dimensions	110mm x 80mm x 40mm (4.3" x 3.14" x 1.57")
Weight	260g (0.57lbs)

DAU Antenna		
Item No.	108-31	
Frequencies	2.4GHz, 5.8GHz	
Connector Type	TNC(f)	
Angular Accuracy	45°	
Dimensions	400mm x 121mm x 121mm (15.7" x 4.8" x 4.8")	
Weight	700g (1.54lbs)	

Body-Worn Patch Antenna		
Item No.	108-30	
Frequencies	2.4GHz, 5.8GHz	
Connector Type	TNC(f)	
Angular Accuracy	45°	
Dimensions	80mm x 80mm x 15mm (3.1" x 3.1" x 0.6")	
Weight	30g (1oz)	

Contents	
Carry Case Contents	RfSwitch DAU Antenna Body-Worn Patch Antenna 1m RF Cable 0.4m RF Cable Quick Start Guide Rugged Carry Case

SYSTEM DIAGRAM















(IRK) Immediate Response Kit

Rapidly Deployable Detection and Defeat

Item No. 115

RfPatrol MKII



Up to 4km
Detection Range



2.4Ghz, 5.8Ghz, 433Mhz, 868MHz 915Mhz



Al Detection Engine Software Updates



Weight 1.2kg (2.6lb)



Drone**Gun MKIII** Defeat Range



2.4Ghz, 5.8Ghz, 433Mhz, 915Mhz



GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS



Weight 2.1kg (4.7lb)

APPLICATION

The Rf**Patrol MKII** is a wearable detector that provides real time situational awareness without complex operation. The Rf**Patrol MKII** integrates Software Defined Radio capabilities and utilises AI for advanced detection and classification. The device displays both detected custom protocol and Wi-Fi RF links to operators.

Designed to be highly effective in a range of demanding environments, the Rf**Patrol MKII** can be body-worn, deployed on ground or used in vehicles. It can also be operated in 'Stealth' or 'Glimpse' mode, allowing users to control how they receive visual and audio alerts.

Rf**Patrol MKII** is supported by a Device Manager (UI) that allows operators to add and enable detection filters, download detection logs and keep their device's database up to date with the changing threat environment via DroneShield's proprietary AI driven Detection Engine.

The Drone**Gun MKIII** is a compact, lightweight drone countermeasure designed for one hand operation. It is highly effective against a wide range of commercially available drone models. The Drone**Gun MKIII** is capable of intercepting and disrupting the control and navigation of multiple drones simultaneously. Drone**Gun MKIII** covers all five major GNSS frequencies.

RF disruption activation can also be used to interfere with live video streaming (FPV) between the remote controller and the drone, halting the collection of video footage and intelligence by the drone operator.







DroneGun MKIII Performance	
Effective Range	Up to 1km (0.62miles) - Beyond Visible Line of Sight
Effective Frequencies	2.4GHz ISM, 5.8GHz ISM 433MHz (operator toggle), 915MHz (operator toggle) GNSS L1, GNSS L2 (operator toggle; GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS)

DroneGun MKIII Product Specifications	
Unit Weight	2.14kg (4.72lbs) including battery
Colour Options	Black, Desert Tan

DroneGun MKIII Battery Specifications	
Voltage	10.8VDC
Battery	(AN/PRC 152) Rechargeable Lithium-Ion Battery
Battery life:	Up to 2 hours
Start-up Time:	< 3 secs

DroneGun MKIII Environment	
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Ingress Protection	Designed to IP55

RfPatrol MKII Performance	
Detection Range	High RF Environment (Urban) - up to 1km (0.62 miles) Low RF Environment (Rural) - up to 4km (2.48 miles)
Detection Type	Line of Sight, Omni
Detection Time	<5secs (known frequency)
Detects	Drone Video & Control links

RfPatrol MKII Product Specifications	
Weight	1.2kg (2.6lbs) (including battery)
Colour Options	Matte Black, Desert Sand

RfPatrol MKII Battery & Power	
Voltage	10.8VDC
Battery	(AN/PRC 152) Rechargeable Lithium-Ion Battery
Battery life:	10+ Hrs (continuous operation)
Start-up Time:	< 3 secs

RfPatrol MKII Environment	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Ingress Protection	Tested to IP67
MIL-STD-810G	High temp, Low temp, Temp shock, Vibration, Shock
MIL-STD-810H	Humidity

IRK Case Contents	
Carry Case Contents	RfPatrol MKII Device 1 x BT-70716BG Battery Battery Charger (PT) 2.4/5.8GHz Omni Antenna 433MHz Omni Antenna 868-915MHz Omni Antenna Custom Carry Pouch Update Cable (7 pin to RJ45) RJ45 to USB Converter Audio Cable (3 pin to audio) Vehicle Power Cable MOLLE clips 3 x TNC extension cables 3 x Antenna pouches DroneGun MKIII Device 1 x BT-70716BG Battery (NATO Approved) (attached to device) Cap Battery Charger & Lead Universal Power Adapter Single Point Sling Inventory Sheet Quick Start Guide (both products)

IRK Shipping & Warranty	
Packaging	Ships in a Rugged Carry Case (IP67)
Dimensions	828x467x280mm (33"x18.4"x11")
Total Weight Shipped	25kg (37lbs)(Standard kit) including case
HS Code	DroneGun MKIII 8543.70.9090 RfPatrol MKII 85269130
Warranty Time Frame	12 months from date of shipment









Drone**Sentry-X**

Mobile 360° Detect, Classify, Locate and Defeat

Item No. 207 Subscription No. 207-1



Up to 3km Detection Range



500m Defeat Range



2.4Ghz, 5.8Ghz



Non-lethal Jamming



Al Detection Engine Software Updates



GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS



Weight 26kg (62lb)



Automatic Target Defeat



APPLICATION

Drone**Sentry-X** is a cross-vehicle compatible, automated 360° detect and defeat solution for on-the-move missions and base protection. It provides complete situational awareness and response to UAS threats (e.g. drones) moving at any speed. The Drone**Sentry-X** is suitable for mobile operations, site patrol and fixed base protection. It is a cost effective solution with dual capability built into one unit.

Designed to be rugged and protected in harsh environments the compact sensor unit that can be mounted to standard vehicle roof racks. Alternatively it can be deployed at a fixed site or as a temporary pop-up solution to masts or towers, with on site or remote operator access.

The Drone**Sentry-X** is supported by a Device Manager (UI) that allows operators to view real-time data and on-map feedback of local activity detected by the system and setup automatic or manually engage disruption capabilities within target defeat range.

The Device Manager also provides access to view active detection logs, add and enable detection filters, download logs for evidence collection and keep their devices database up to date with the changing threat environment via DroneShield's proprietary Al driven Detection Engine.

DroneShield supplies a digital control tablet and display that can be handheld or mounted in vehicle for quick operational access.





Performance	
Detection Range	3km
Disruption Range	500m

Effective Frequencies	
Bands	2.4GHz ISM 5.8GHz ISM GNSS L1 & GNSS L2 (GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS) (operator toggle) Detects and disrupts UAS (e.g. drones) operating on consumer and commercial ISM frequencies

Alert Options	
Outputs	Audio and Visual alerts via Operator Control Module

Power	
Input	24VDC (optional 12VDC to 24VDC converter available) Utilizes auxiliary vehicle power supply

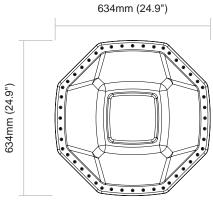
Device Communication	
Connections	Connects to supplied tablet or standard computer

Environment & Installation	
Operating Temperature	-20°C to +55°C (-4°F to +131°F) External roof mounted pod tested to IP67
Weight	25.7kg (including sensor pod & brackets)
Mounting Options	Clamps to standard roof racks Tamper proof mounting options available Mast mounting available via Top Mounting System (TMS)
Certifications	MIL-STD-464: HERO, HERP, HERF IEC/AS 60529 Tested to IP67

Colours	
Options	Desert Tan, White

Shipping & Warranty	
Warrant	12 months from date of shipment
Packaging	Ships in a rugged carry case
HS Code	8543.70.9090

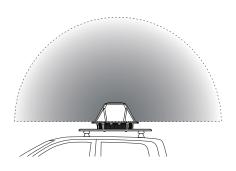
Contents	
Carry Case Contents	DroneSentry-X Device Rugged Control Tablet 15m Data Cable 15m Power Cable Power Supply 24V Mains Vehicle Power Supply Mounting Roof-Rack Bracket Plate Mounting Tablet Plate Square U-bolt Kit Long U-bolt Kit Quick Start Guide



TOP VIEW



SIDE VIEW



Hemispheric Coverage: Wide 360 degree direction with cardinal bearing

Laws limiting the availability of DroneSentry-X to certain types of users may apply in other jurisdictions, and any sales will be conducted only in compliance with the applicable laws. DroneSentry-X affects only frequencies at 2.4Ghz, 5.8Ghz and GPS/ GLONASS/ Galileo/ BeiDou/ NAVIC/ QZSS. Emergency broadcasts, cellphone communication and other dedicated channels will not be affected.





DroneSentry-X (Detect Only)

Mobile 360° Detect, Classify and Locate

Item No. 208 Subscription No. 207-1



Up to 3km Detection Range



2.4Ghz, 5.8Ghz



Al Detection Engine
Software Updates



Weight 26kg (62lb)

APPLICATION

DroneSentry-X (Detect Only) is a detection only version of the DroneSentry-X product. The Passive product features the same matched performance characteristics for UAS detection across ISM frequency bands, with defeat functionality omitted. The DroneSentry-X (Detect Only) suits end users who require an on-the-move directional solution, but are not permitted to operate a defeat device. The DroneSentry-X (Detect Only) will automatically detect, classify and locate UAS.

Equipping this device provides complete situational awareness to UAS threats in all directions (e.g. drones) moving at any speed. This includes directly above the sensor, with full hemispheric sensor coverage.

The device can be mounted to standard vehicle roof racks, or alternatively deployed at a fixed site or as a temporary pop-up solution to masts or towers, with on site or remote operator access.

The Drone**Sentry-X (Detect Only)** is supported by a Device Manager (UI) that allows operators to view real-time data and on-map feedback of local activity detected by the system. The Device Manager also provides access to view active detection logs, add and enable detection filters, download logs for evidence collection and keep their devices database up to date with the changing threat environment via DroneShield's proprietary Al driven Detection Engine.

DroneShield supplies a digital control tablet and display that can be handheld or mounted in vehicle for quick operational access.







Performance	
Detection Range	3km

Alert Options	
Outputs	Audio and Visual alerts via Operator Control Module

Power		
Input	24VDC (optional 12VDC to 24VDC converter available) Utilizes auxiliary vehicle power supply	

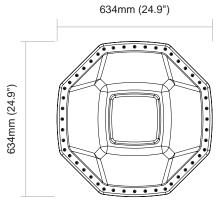
Device Communication	
Connections	Connects to device via supplied RJ45 cable Connects to supplied tablet or standard computer

Environment & Installation	
Operating Temperature	-20°C to +55°C (-4°F to +131°F) External roof mounted pod tested to IP67
Weight	25.7kg (including sensor pod & brackets)
Mounting Options	Clamps to standard roof racks Tamper proof mounting options available Mast mounting available via Top Mounting System (TMS)
Certifications	MIL-STD-464: HERO, HERP, HERF IEC/AS 60529 Tested to IP67

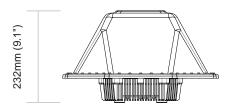
Colours	
Options	Desert Tan, White

Warranty & Shipping	
Warranty	12 months from date of shipment
Packaging	Ships in a rugged carry case
HS Code	8543.70.9090

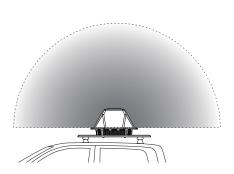
Contents	
Carry Case Contents	DroneSentry-X Device Rugged Control Tablet 15m Data Cable 15m Power Cable Power Supply 24V Mains Vehicle Power Supply Mounting Roof-Rack Bracket Plate Mounting Tablet Plate Square U-bolt Kit Long U-bolt Kit Quick Start Guide



TOP VIEW



SIDE VIEW



Hemispheric Coverage: Wide 360 degree direction with cardinal bearing





DroneOpt1

Versatile and Compact Site Surveillance

Item No. 107

APPLICATION

Drone**Opt1** is a compact, high definition PTZ camera designed to provide operators with Electro-Optical confirmation of targets up to 1km away (small UAS sized). The built-in PTZ mount allows continuous 360° coverage.

Compact Design: The Drone Opt1 benefits situations where weight and size limitations apply. With a weight of only 10.7kg (23.6lbs) and total height under 530mm (20.8") the camera is extremely versatile in its deployment.

Cost Effective: DroneOpt1 provides unrivaled performance at its price point, suiting end users with small to medium sized sites.

Integrated: The effectiveness of optical detection is greatly enhanced when combined with other sensor technologies, such as DroneShield radar and RF direction finding devices. Targets can be immediately tracked using slew to cue from radars and/or directional data from RF sensors.





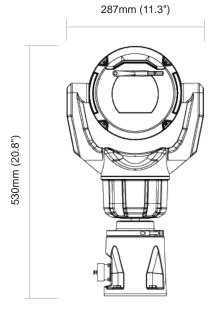


UAS Detection Range (EO)	
Nano UAS	Up to 500m
Small UAS	Up to 1km

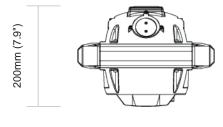
Video Specifications	
Optical Zoom	30x
Digital Zoom	12x
Resolution	1080p HD

Mechanical Specifications	
Weight	10.7kg (23.6lb)
Dimensions	530mm x 200mm x 287mm (20.8" x 7.9" x 11.3")
Positional Accuracy	+/-0.07°
Temperature Range	-40°C to +65°C (-40°F to +149°F)
Power	PoE (Power Over Ethernet)
Power Consumption	40W

Contents	
Included with Product	DroneOpt1 camera Rugged carry case Mounting hardware and fasteners: Suits pole diameters 50-89mm (2-3.5") Suits top and offset mounting PoE cable (15m) PoE injector and IEC adapter Quick start guide



FRONT VIEW



TOP VIEW





Drone Opt 2

MIL-SPEC Thermal & Optical Sensor

Item No. 107-2

APPLICATION

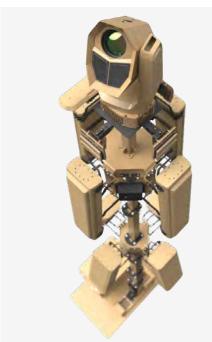
Drone**Opt2** is a performance oriented, high definition PTZ camera with built-in Infrared optics. The camera features an optical detection range of up to 1km and infrared detection range of up to 600m (based on small sized UAS).

Superior Thermal Performance: Drone**Opt2** excels in challenging environmental conditions, providing operators with clear and consistent images of aerial targets.

Versatile optics: Drone**Opt2** allows users to seamlessly switch between electro-optical and thermal streams within a single product.

Integrated: The effectiveness of optical detection is greatly enhanced when combined with other sensor technologies, such as DroneShield radar and RF direction finding devices. Targets can be immediately tracked using slew to cue from radars and/or directional data from RF sensors.







UAS Detection Range (I	UAS Detection Range (EO)	
Nano UAS	Up to 500m	
Small UAS	Up to 1km	

UAS Detection Range (IR)	
Nano UAS	Up to 300m
Small UAS	Up to 600m

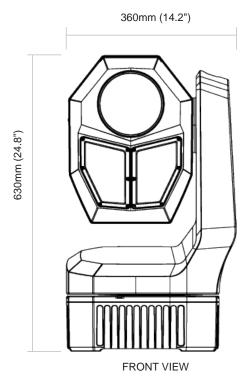
Video Specifications	
Optical Zoom (EO)	30x
Digital Zoom (IR)	16x
Resolution	1080p HD (EO), 1024 x 576 (IR)

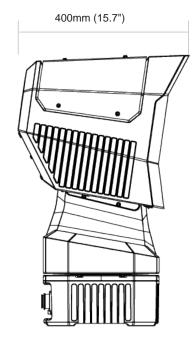
Mechanical Specifications	
Weight	25kg (55lb)
Dimensions	630mm x 400mm x 360mm (24.8" x 15.7" x 14.2")
Positional Accuracy	+/-0.03°
Temperature Range	-32°C to +60°C (-25°F to +140°F)
Power Consumption	500W

Contents	
Included with Product	DroneOpt2 camera Rugged carry case Mounting hardware and fasteners Power supply Power and data cables Quick start guide



The highlight of DroneOpt2 is its infrared data stream, capable of providing images of targets up to 600m away.





SIDE VIEW





DroneSentry

Autonomous Integrated Detection and Countermeasure

Sentry90 Detection No. 203
Sentry90 Detect & Disrupt No. 204
Sentry360 Detection No. 205

Sentry360 Detect & Disrupt No. 206

Sentry90 Subscription No. 204-1 Sentry360 Subscription No. 206-1



Radar**Zero** (Radar Detect)



Rf**One**



DroneOpt
(Optical & Infared
Detection)



Drone**Cannon**(Multi-band RF Jamming,
GNSS disruption)

APPLICATION

Drone**Sentry** is a modular solution that integrates DroneShield's suite of sensors and countermeasures in a unified platform that is deployable for both permanent and temporary installations. Drone**Sentry** components can be adapted to suit local regulations. End users can start with detect, track and identify capabilities, adding mitigation via plug and play should laws permit.

Drone**Sentry** is an autonomous C-UAS system that integrates Radar, Rf**One** RF detectors, and Drone**Opt** cameras, Drone**Sentry** correlates situational data that provide maximum situational awareness for automatic identification and response to UAS intrusions or threats. Drone**Opt** (camera) sensors can also utilise Drone**OptID**, DroneShield's AI driven computer vision technology to detect, verify and track UAS (e.g. drones) in real time.

DroneSentry-C2

Drone**Sentry-C2** is an enterprise grade software management tool. The platform includes a graphic user interface (GUI) that compiles live data to the user seamlessly. The Drone**Sentry-C2** system supports integration with existing, third party sensors.

Remote access to your DroneShield products allows you to check statuses, configure your system settings, monitor threat levels, and respond in real-time.

DroneOpt Supports EO/IR detection tracking identification RadarZero 4 units for 360° 1 unit for 90° (3D radar) RfOne 4 units for 360° RF DroneCannon 4 units for 360°

DroneSentry 360° Setup

Note: DroneSentry can

be installed without defeat capabilities (DroneCannon)

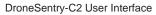
Performance	
Nominal UAS Detection Range	RadarZero: 1km RfOne MKII: 8km DroneOpt EO: up to 1km DroneOpt IR: up to 600m Dependant on camera and radar model
Disruption Range	DroneCannon MKII: up to 2km

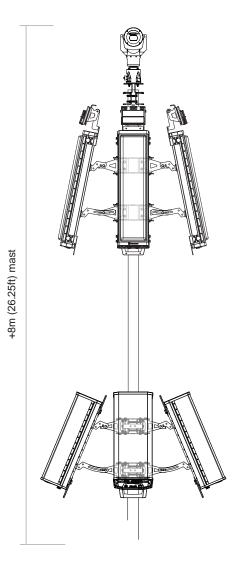
Alert Options	
Interface	DroneSentry-C2 User Interface, audio and/or visual alerts.
IP	IP-based (email, SMS, XML/JSON)

Communication	
Connection	Wired Ethernet Connection

Installation	
	System components suitable for permanent or temporary installation
Installation	Sensor component mounting platform adaptable to suit installation environment
Environment	Elevated mounting platform required for clear lines of sight onto horizon and over area to be monitored
	Sensor associated control, PSU and network electronic equipment to be installed indoors close to site or in suitable external weatherproof housing







Disclaimer:

Laws limiting the availability of DroneCannon MKII to certain types of users may apply in other jurisdictions, and any sales will be conducted only in compliance with the applicable laws. DroneCannon MKII affects only frequencies at 2.4Ghz, 5.8Ghz, 433Mhz, 915Mhz and GPS/ GLONASS/ Galileo/ BeiDou/ NAVIC/ QZSS. Emergency broadcasts, cellphone communication and other dedicated channels will not be affected.







FIXED I

DETECT !

DEFEAT

SUPPORT

RfOne MKII

Highly Accurate Detection

Item No. 102

Subscription No. 102-1



Up to 8km Detection Range



2 4Chz 5 8Chz



AI/ML Engine



Weight 10kg (22lb)

APPLICATION

RfOne MKII is the latest stationary RF detection product, delivering long range and highly accurate drone detection and tracking capabilities. The device assists authorities with prosecuting the pilot and safely recovering the drone.

Fast Drone Identification

Can distinguish between drone manufacturer and protocol, providing a range of live data through DroneSentry-C2.

Military Grade Hardware

Utilises military grade connectors for power and data, designed to operate in harsh environments.

Scalable

Lightweight and modular, allowing four sensors to be combined for 360 degree coverage

Daisy Chain Cabling for Multiple Units

Power and data between multiple sensors are daisy chained, requiring only one set of cables to travel up the mast.

Dual Purpose Carry Handles

Allow device to be hoisted up a mast during installation as well as being used as mounting points for RadarZero and GPS Compass. Handles can be easily replaced or removed to reduce weight & size.

Durable Construction

Carry handles protect the device, with steel threaded mounting holes allowing greater torque to be applied to fasteners during installation.





Performance	
Detection Range	Up to 8km (5miles)
Detection Frequency	2.4GHz and 5.8GHz

Output Options	
Interface	Operates in real time when coupled with DroneSentry-C2 (DroneShield's Command-and-Control System) Integration into existing security systems
Method	Output via JSON, XML and gRPC

Power	
Input Power	24VDC 24W
Output Power	nil (passive system)

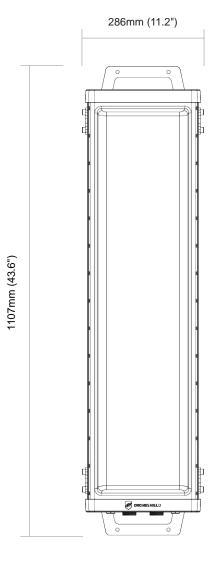
Environment & Installation	
Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	Tested to IP66
Weight without packaging or brackets	10kg (22.05lbs)
Mounting Pole Diameter	Mounts to pole diameter of 50-89mm (2.0-3.5") using supplied Universal Mounting System (UMS). Expandable to 50-110mm (2.0-4.33") with optional Multi Panel System (MPS).

Maintenance	
Requirements	No moving parts, routine inspection only.

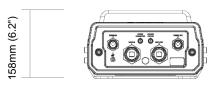
Warranty	
Time Frame	12 months from date of shipment

Shipping	
HS Code	85269130

Peripheral Equipment	
SmartHub Requirement	For DroneSentry installations where only RfOne devices are used, a SmartHub is not mandatory. However, a SmartHub allows RfOne device power and data connections to be fully weatherproofed to the network. Accommodating a SmartHub during early installation phases allows for additional devices (such as radars or cameras) to be installed at a later date.



FRONT VIEW



UNDERSIDE VIEW





Drone Cannon MKII

Base Protection Countermeasure

Item No. 105



Up to 2km



Automatic Target Defeat



2.4Ghz, 5.8Ghz,



Non-lethal Disruption



GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS



Weight 22kg (48.5lbs)

APPLICATION

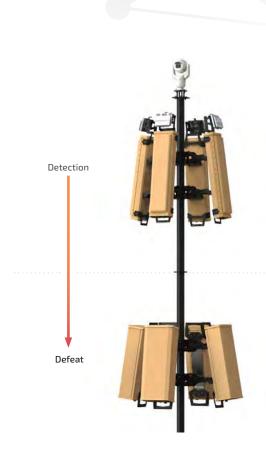
Drone**Cannon MKII** is the next generation fixed site countermeasure with improved disruption capabilities, size and durability. A single Drone**Cannon MKII** is capable of defeating threats at a distance of up to 2km (1.24miles) and is effective against multiple UAS targets or swarm attacks.

The Drone**Cannon MKII** forms a part of the Drone**Sentry** fixed site C-UAS system providing defeat with 90 degree coverage for a single unit to up to 360 degree coverage with four units mounted on the mast.

This fixed site C-UAS solution is ideal for complete site protection and fast response. It offers non-lethal, non-kinetic RF disruption, forcing UAS (e.g. drones) to land on the spot or return-to-home.

The device is controlled through Drone**Sentry-C2** 'Command-and-Control' Graphical User Interface. Operators can view live coverage, alerts and setup automatic or manual engagement for defeat of threats detected by the system; as well as setup of predefined UAS exclusion zones for early warning alerts and autonomous defeat.

Also available as a stand alone countermeasure, Drone**Cannon MKII** can operate without a detection system and easily integrates into existing security systems.



Performance	erformance		
Effective Frequencies	2.4GHz ISM, 5.8GHz ISM 433MHz (operator toggle), 915MHz (operator toggle) GNSS (operator toggle; GPS, GLONASS, Galileo, BeiDou, NAVIC, QZSS)		
Disruption Range	Up to 2km (1.24 miles)		
Beamwidth	90° Azimuth, 90° Elevation Autonomous disruption capabilities when paired with DroneShield detection technologies (DroneSentry)		

Power		
Input Power	DC 30V Standby mode: <50W All frequency bands activated: 190W PSU provides power for up to 4 sensors	

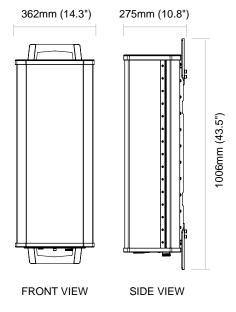
Communications	
Connection Points	RF disruption activation via weatherproof TCP/IP Ethernet RJ45 port for network connection DC Power via 15m power cables with MIL-Spec connectors to PSU Communication with devices and host network through IP67 RJ45 Ethernet

Environment & Installa	nvironment & Installation	
Installation Options	Device unit tower or mast mountable Supplied with vertical pole 'up-tilt' mounting brackets	
Weight	Sensor 22kg (48.5lbs) PSU 40kg (88lbs)	
Ingress Protection	Tested to IP66	
Sensor Operating Temperature	-20°C to +55°C (-4°F to +131°F)	
Mounting Pole Diameter	Mounts to pole diameter of 50-89mm (2.0-3.5") using supplied Universal Mounting System (UMS). Expandable to 50-110mm (2.0-4.33") with optional Multi Panel System (MPS).	

Maintenance	
Requirements	No moving parts, routine inspection only.

Contents	
Carry Case Contents	DroneCannon MKII Antenna Panel DroneCannon PSU unit Mounting Hardware 15m Power Cable 15m Data Cable Quick Start Guide

Peripheral Equipment	
Equipment	DroneCannon MKII devices require a dedicated power supply, which is included as standard with the device. Each power supply supports up to 4x DroneCannon MKII devices simultaneously. A SmartHub MKII is required for each installation point where a DroneCannon MKII is located.





Disclaimer:
Laws limiting the availability of DroneCannon MKII to certain types of users may apply in other jurisdictions, and any sales will be conducted only in compliance with the applicable laws. DroneCannon MKII affects only frequencies at 2.4Ghz, 5.8Ghz, 433Mhz, 915Mhz and GPS/ GLONASS/ Galileo/ BeiDou/ NAVIC/ QZSS. Emergency broadcasts, cellphone communication and other dedicated channels will not be affected.





CompassOne

Ruggedised Accurate Navigation

Item No. 406-1



GPS, GLONASS, Galileo, BeiDou, NAVIC



0.16 Degrees Heading Accuracy



2.5m Position
Accuracy



Weight 2kg (4.4lb)

APPLICATION

Compass**One** is a self-contained navigation solution for fixed site, vehicle, and marine applications. Providing accurate location, orientation and heading data, the Compass**One** provides users with consistent and clear data for static and mobile sites. Compatibility with various global navigation satellite systems ensures uninterrupted operation.

Ruggedised Design

With a strong focus on durability and ruggedisation, Compass**One** is suitable for installation and operation in harsh environments. Military standard connectors and high grade stainless steel hardware ensure uninterrupted connection and protection from the elements while the aluminum underside provides exceptional impact resistance and rigidity while keeping overall weight low.

Seamless Integration

Compass**One** can operate stand alone or integrate seamlessly with DroneShield's Drone**Sentry** system. Power over Ethernet reduces cable clutter and VESA compatibility makes Compass**One** easy to integrate into new or existing systems. Installation is clear and fast with status LEDs, installation graphics and tool-less fasteners.





Performance		
Heading Accuracy	0.16 degrees	
Positional Accuracy	2.5 meters	
Pitch/Roll (RMS):	0.5 degrees	
Heave (RMS)	30cm (DGNSS)	
GPS Sensitivity	-142 dBm	
Update Rate	10Hz	
Timing (1 PPS) Accuracy	20 ns	
Heading Fix	10 seconds typical (Hot Start)	
Signals Received	GPS L1CA/L1P/L1C/L2P/L2C/L5 GLONASS G1/G2/G3, P1/P2 BeiDou B1i/B2i/B3i/B10C/B2A/B2B/ ACEBOC GALILEO E1BC/E5a/E5b/E6BC/ ALTBOC QZSS L1CA/L2C/L5/L1C/LEX IRNSS L5 Atlas	

	65	2mm (25.7")	
152mm (6.0")	0		
_		TOP VIEW	



Integration	
Integration	Plug and play with DroneShield Sentry-C2 system NMEA 0183 broadcast packets via UDP multi-cast

Power	
Input	PoE (Power over Ethernet) 10/100Mbit
Power Consumption	< 3 Watts

Installation	
Mounting	Tool-less and compatible with DroneShield brackets Universally accepted VESA 75x75 mounting pattern
Product Weight	2.0kg (4.4lbs)

Environment	
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Ingress Protection	Designed to IP67

Colours	
Options	Desert Tan, White on request

Shipping & Warranty	
Warranty Time Frame	12 months from date of shipment
Shipping	Optional rugged carry case available

Contents	
Carry Case Contents	CompassOne Device 15m (50ft) Data Cable Compass Mounting Fasteners Quick Start Guide



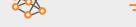


DroneSentry-C2 (On-Prem)

On-Premises Command-and-Control

Subscription Item No. 206-2 (Enterprise version) Subscription Item No. 206-3 (Defense version)





training burden for operators

APPLICATION

DroneSentry-C2 is a Command-and-Control system that performs sensor fusion on multiple sensor inputs from DroneShield and Third-Party sensors.

Each DroneSentry-C2 license includes a built-in mapping service. This enables end users to deploy an air-gapped system anywhere in the world with local, high resolution

As a sensor agnostic, open architecture platform, DroneSentry-C2 brings advanced interoperability and flexibility to users. The platform is scalable, catering to smaller sites or several multi-sensor sites working together.

DroneSentry-C2 utilises RESTful API allowing easy integration into existing security systems and infrastructure.

BENEFITS

Increased Security

On-premises server allows for increased site security and control via an air-gapped network between sensors and processor.

TAA Compliant Option Available

TAA compliant server available for end users with federal procurement requirements



Extensive analytics features to review and export sensor information



Available in a MIL-STD-2525 version with industry leading enterprise features



Server Specifications	
Processor	Intel Xeon Bronze 3204
RAM	32GB
HDD	3.84TB SSD
Network	4 Port 1GbE Adapter



On-Premises Server Unit (1RU)

Shipping and Installation	
Mounting	Compatible with standard 19" rack systems
Rack Height	1RU
Dimensions	714.6mm x 434mm x 42.8mm (28.13" x 17.08" x 1.68")
Weight	17.6kg (38.9lbs)

Contents	
Package Includes	- DroneSentry-C2 software - Mapping data - 1RU server - Quarterly software updates



DroneSentry-C2 (Cloud)

Cloud Hosted Command-and-Control

Subscription Item No. 206-2 (Enterprise version) Subscription Item No. 206-3 (Defense version)







Intuitive interface reduces training burden for operators

APPLICATION

Drone**Sentry-C2** is a Command-and-Control system that performs sensor fusion on multiple sensor inputs from DroneShield and Third-Party sensors.

Each Drone**Sentry-C2** license includes a built-in mapping service with standard, terrain and satellite formats. Cloud-based mapping services are updated regularly so that geospatial data is up-to-date. For on-premises solutions, high resolution maps are available for offline use.

As a sensor agnostic, open architecture platform, Drone**Sentry-C2** brings advanced interoperability and flexibility to users. The platform is scalable, catering to smaller sites or several multi-sensor sites working together.

DroneSentry-C2 utilizes RESTful API allowing easy integration into existing security systems and infrastructure.

BENEFITS

Increased Flexibility

Cloud hosting caters to flexible deployment scenarios where internet accessibility is readily available. Not requiring physical hardware means setup time and complexity is reduced.

Secure Site Management from Anywhere

Cloud-based processing allows operators to securely access their sites from anywhere, anytime.



Extensive analytics features to review and export sensor information



Available in a MIL-STD-2525 version with industry leading enterprise features



Contents	
Package Includes	- DroneSentry-C2 software - Mapping data - 1RU server - Quarterly software updates

SYSTEM DIAGRAM

Multiple sites connect seamlessly to the cloud, where the user interface is completely detached from the physical site. Users can access and monitor multiple sites from any location.





Nearmap Mapping Upgrade

High Fidelity Mapping Service

Subscription Item No. 206-4 (Enterprise version) Subscription Item No. 206-5 (Defense version)

End users requiring the highest levels of precision and quality benefit from the optional Nearmap mapping upgrade. The upgrade supplements the existing mapping service provided with each DroneSentry-C2 license. Nearmap provides users with highresolution aerial imagery in Australia, New Zealand and North America. Nearmap offers numerous capability increases that are not possible with standard satellite imagery.

High Resolution Imagery

Map resolution is several times higher than standard satellite imagery, providing increased precision when responding to C-UAS threats.

Regular Updates

Nearmap mapping data is regularly updated, ensuring sites reflect the latest geospatial data for operators.

Scalable Mapping Subscription

Nearmap mapping data is scalable to suit the end-user's spatial requirements, the subscription being flexible to evolving sites and coverage.

Available for On-Prem and Cloud

On-premises DroneSentry-C2 subscriptions are enhanced by the Nearmap mapping upgrade to provide high resolution offline imagery for intelligence, Homeland Security and defence users.

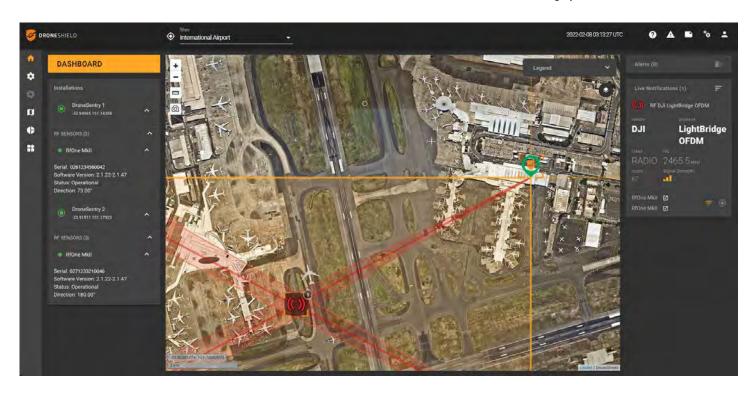
Secure cloud hosted DroneSentry-C2 subscriptions benefit from Nearmap's regularly updated database, ensuring sites operate with the latest geospatial data available.



Regularly updated mapping ensures operators always have the latest information available to them when responding to C-UAS threats.



The Nearmap upgrade provides detail and resolution several times higher than standard satellite imagery.





Drone OptID

Al Powered Detection, Identification and Tracking

Item No. 409-1 Subscription No. 107-1



Autonomous Motion Tracking



Quarterly AI/ML



Camera Hardware Agnostic



6.7kg (14.87lbs) Server weight

APPLICATION

Drone**OptID** is an Al/ML powered software system hosted on a dedicated hardware platform. The server unit is a standard 19inch rack server (2 rack units) which can be installed into existing rack infrastructure or in a weatherproofed case.

Drone**OptID** offers the latest in Computer Vision technology to detect, verify and track UAS targets in real time. The AI model has been developed specifically for UAS detection and works seamlessly with DroneShield's range of best in class UAS detection and countermeasure devices. Drone**OptID** supplements the Smart**Hub MKII** to provide a self enclosed hardware and software solution for UAS detection.

Camera Hardware Agnostic:

Drone **OptID** is not limited to specific hardware and has been integrated with a range of Electro-Optical and Thermal imaging systems.

Active Tracking:

Drone **OptID** uses motion tracking and machine learning techniques to autonomously identify and track the target.

Ruggedised and Portable:

Pre-installed in a weatherproof and portable 19" rack server case, built to withstand extended exposure to the elements.

Quarterly Enhancements

Computer Vision model is trained on close to 100,000 samples, with ongoing enhancements via subscription.





Electro-Optical Performance	
Nano UAS Range e.g. DJI Mavic	Up to 500m (DroneOpt1 & DroneOpt2)
Small UAS Range e.g. DJI M600	Up to 1km (DroneOpt1 & DroneOpt2)

610mm	
	89mm (3.5") 2 Rack
SIDE VIEW	Units

Infrared Performance	
Nano UAS Range e.g. DJI Mavic	Up to 300m (DroneOpt2)
Small UAS Range e.g. DJI M600	Up to 600m (DroneOpt2)

FRO	NT ISOMETRIC VIEW	

Hardware Requirements	
Hardware	Must be paired with the SmartHub MKII, supporting hardware (such as Cameras and Radars) may require additional power and data
Camera Requirements	Recommend ONVIF compliant and uses RTSP

Environment and Installation	
Server Height	2RU
Dimensions	610mm x 483mm x 89mm (24" x 19" x 3.5")
Weight*	6.7kg (14.7lbs) *Server weight only, not including SmartHub MKII
Operating Temperature	-10°C to +40°C (14°F to +104°F)
Case Colour*	Black *Based on SmartHub MKII rugged case



Maintenance & Warranty		
Upgrades	Quarterly Al Upgrades available via subscription	
Warranty	12 months warranty from date of shipment	

Shipping	
Shipping Size	Refer to SmartHub MKII shipping case
HS Code:	85369030





SmartHub MKII

Intelligent Edge Processor

Item No. 406





Rapidly Deployable

43 2kg (95lbs)

APPLICATION

Smart**Hub MKII** is a multi-sensor fusion network device that enables multiple DroneShield sensors and countermeasures to be seamlessly networked together. The Smart**Hub MKII** acts as a data gateway and pre-processor, optimizing large amounts of data for complex and comprehensive sites. Each Smart**Hub MKII** provides consistent connectivity from a range of power and data sources, built to withstand harsh environmental conditions. The device allows end users to take advantage of DroneShield multi-sensor technologies, such as radars, cameras and countermeasures.

Sensor Fusion:

The SmartHub congregates large volumes of sensor data about its local environment, consistently relaying this information to the ComputeNode. This structured and prioritised based process enables smart 'Sensor Fusion' techniques to be implemented by the ComputeNode. This reduces data storage and bandwidth requirements, improves latency and response time.

Automatic Device Detection:

The SmartHub scans its local network for new sensors, once found these sensors are automatically installed and configured.

Enables Al Processing:

The SmartHub acts as the data gateway and preprocessor, enabling the edge GPU-based processor and ComputeNode system to conduct Al driven decision making.

High Quality Power and Data

The SmartHub provides consistent, high quality connection from a variety of power and data sources. Military grade connectors ensures uninterrupted operation and environmental protection in all environments.





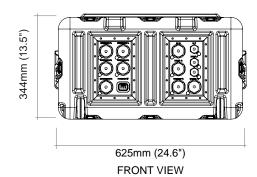
Supported Devices		
DroneOpt1	1	Full PoE solution with DroneOptID server
DroneOpt2	1	Power provided separately
RadarZero	Up to 4	
RadarOne	1	Power provided separately
RfOne MKII	Up to 4	
DroneCannon MKII	Up to 4	Power provided via DroneCannon PSU
CompassOne	1	

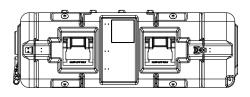
Power & Communications	
Input Power	110-240VAC (IEC 320-2-2E connector)
Communication	RJ45 (Ingress Protected on SmartHub)

Environment & Installation	
Ingress Rating	IP45 when in case
Weight	43.2kg (95lbs) *not including optional DroneOptID server
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Dimensions	977mm x 625mm x 344mm (38.5" x 24.6" x 13.5")
Compliance	TAA and Berry Compliant

Maintenance & Warranty		
Maintenance	Routine inspection of cooling fans	
Warranty	12 months from date of shipment	







977mm (38.5") SIDE VIEW





Mounting Brackets

UMS MKII (Universal Mounting System)

Specifications	
Item No.	045
Pole Diameter	50-89mm (2-3.5")
Included with kit	UMS MKII Upper Clamp Assembly UMS MKII Lower Clamp Assembly Temporary & Permanent fasteners Quick start guide
Temporary Installations	Tool-less via supplied thumb-nuts
Permanent Installations	Permanent fasteners supplied as standard with each kit, tools and torque wrench to suit M10 nut and hex bolt
Weight	Each Clamp Assembly: 1.75kg (3.85lb) Full Mounting Kit: 3.5kg (7.7lb)
Use Case	Supports single sensor, 90 degree sector installations



View Installation Video

MPS MKII (Multi Panel System)

Specifications	
Item No.	051
Pole Diameter	50-110mm (2-4.3")
Included with kit	MPS MKII Upper Clamp Assembly MPS MKII Lower Clamp Assembly 8x Sensor Brackets (2 shown in image) Temporary & Permanent fasteners
Weight	Quick start guide Each Clamp Assembly: 9.5kg (20.9lb) Full Mounting Kit: 19kg (41.8lb)
Use Case	When between 2 and 4 of the same sensor are installed on the same mounting pole.



TMS (Top Mount System)

Specifications	
Item No.	054
Pole Diameter	50-89mm (2-3.5")
	TMS Pole Clamp
Included with kit	Temporary & Permanent fasteners
	Quick start guide
Weight	7.0kg (15.4lb)
Use Case	For pole mounting the DroneSentry-X device



