DroneSentry and DroneSentinel Launched

- In response to user demand, DroneShield commences sales of its DroneSentry (integrated multi-method detect and defeat) and DroneSentinel (multi-method detection) products.
- Production expected to commence in Q4 2017.
- DroneShield's product offering has been streamlined into three product lines: DroneSentry, DroneSentinel, and DroneGun.
- DroneSentry includes and integrates the following modules – radar detection (RadarOne), radio frequency detection (RfOne), acoustic detection (FarAlert and WideAlert), thermal camera (DroneTherm), optical camera (DroneOpt), optical range extender (DroneBeam), and a fixed site jammer (DroneCannon).
- DroneSentinel includes all of the above detection modules (without the jammer countermeasure).

On 16 January 2017, DroneShield Ltd (ASX:DRO) (“DroneShield” or the “Company”) announced that it commenced work on the development of DroneSentry, an integrated automated drone detection and countermeasure product with an anti-swarming capability. The Company is now pleased to announce that it has opened its order book for DroneSentry, and expects to commence production of DroneSentry in the fourth calendar quarter of 2017.

DroneSentry provides its users with a multi-method drone detection capability and includes and integrates radar, radio frequency, acoustic, thermal and optical (with a range extender) sensor detection, i.e. all the key technologically viable detection methods that currently exist. For interception, DroneSentry integrates these layered detection methods with a radio-frequency jamming system. This integrated detect-and-defeat functionality can be deployed either via a “man in the loop” function or in the automatic mode. DroneSentry will be available only to those customers who are legally able to deploy jamming in their relevant jurisdiction.
DroneSentinel is aimed at those customers who are unable to deploy jamming because of regulatory restrictions. It contains DroneSentry’s multi-sensor detection functionality, without the jamming capability.

Both DroneSentry and DroneSentinel are highly modular and, depending on the customer’s requirements can include or exclude any of the radar (RadarOne), radio frequency (RfOne), thermal camera (DroneHeat), optical camera (DroneOpt), acoustic (FarAlert and WideAlert), and optical range extender (DroneBeam) modules.

The Company will continue to offer these detection modules as stand-alone products where required by users, however, given the requirements expressed by users, going forward, DroneShield will focus its sales on the integrated systems (DroneSentry and DroneSentinel). In addition, DroneShield remains focused on DroneGun, the stand-alone portable rifle-style jammer that is currently undergoing multiple trials and governmental procurement processes globally.

Both DroneSentry and DroneSentinel can be deployed as fixed site and portable solutions.
The summary of the modules contained in each DroneSentry and DroneSentinel product is set out below. This summary represents the base configuration of each product, with customers able to either upgrade to meet their specs, or downgrade to match their budget requirements.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>DroneSentry and DroneSentinel</strong></td>
<td></td>
</tr>
<tr>
<td>RadarOne</td>
<td>• Up to 1.5km radar-based detection</td>
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<tr>
<td></td>
<td>• 360 degree horizontal coverage</td>
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<tr>
<td>RfOne</td>
<td>• Up to 1.5km radio frequency-based detection</td>
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<tr>
<td></td>
<td>• 360 degree horizontal coverage (via 4 units)</td>
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<tr>
<td>WideAlert</td>
<td>• Up to 200m acoustics-based detection</td>
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<tr>
<td></td>
<td>• 180 degree wide horizontal coverage</td>
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<tr>
<td></td>
<td>• Low profile units</td>
</tr>
<tr>
<td>FarAlert</td>
<td>• Up to 1km acoustics-based detection</td>
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<tr>
<td></td>
<td>• 30 degree coverage cone</td>
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<tr>
<td>DroneHeat</td>
<td>• Pan-tilt-zoom (PTZ)-mounted thermal camera</td>
</tr>
<tr>
<td></td>
<td>• 600m-2km detection (by drone type)</td>
</tr>
<tr>
<td>DroneOpt</td>
<td>• PTZ-mounted optical camera</td>
</tr>
<tr>
<td>DroneBeam</td>
<td>• High powered light beam, extending the range of DroneOpt and acting as an optical disruptor for the drone operator</td>
</tr>
<tr>
<td><strong>Also, DroneSentry Only</strong></td>
<td></td>
</tr>
<tr>
<td>DroneCannon</td>
<td>• Up to 2km jamming solution, 360 degree coverage</td>
</tr>
<tr>
<td></td>
<td>• 4 units x 90 degree coverage per unit</td>
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</tbody>
</table>

Additional details on the products are contained in the brochure attached to this announcement.

Peter James, DroneShield’s chairman, commented: “The Company originally started with an acoustic drone detection product. The market has evolved, and customers are expressing substantial interest in integrated detect-and-defeat and multi-sensor detect products. Sophisticated users’ contracts will be won by those companies that are able to provide multi-layered, multi-method products. Therefore, responding to customer demand, the Company has rolled out DroneSentry and DroneSentinel. Together with DroneGun, this positions the Company to meet customer needs across the fixed site and mobile spectrum in the counterdrone space”.

The launch of the products comes against continued background of increasing deployment of drones for terrorism purposes by organisations such as ISIS, with recent reports of another ISIS weaponised drone factory discovered by the coalition forces in Mosul.¹

Further Information

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About DroneShield Limited

Based in Sydney, Australia and Virginia, USA, DroneShield is a worldwide leader in drone security technology. The Company has developed the pre-eminent drone security solution that protects people, organisations and critical infrastructure from intrusion from drones. Its leadership brings world-class expertise in engineering and physics, combined with deep experience in defence, intelligence, and aerospace.

ENDS
Product Information
A New World

With 12 million drones expected to be operating by 2020, it’s no surprise the number of drone incidents is growing by the day – intentional and unintentional.

Recreational and commercial drones generally range in cost between US$30 and US$30,000, are legally available at conventional retailers and online, and can be lawfully flown in most major countries.

Their remote based operation with GPS navigation, compact size, vertical mobility and exceptional agility affords them with a host of positive far-reaching applications from emergency response, surveying, photography, filmography, through to logistics. What was once virtually impossible to scale or otherwise difficult to commercialise due to high costs is now possible.

Almost as easy as they are to acquire, is their ability to directly or indirectly cause damage, death or loss; and with so many new drones entering the skies every day it’s no surprise the volume of drone incidents is continuing to climb.

Privacy & Safety

Advancing your organisation’s ground-based security capabilities into the skies has now become an essential part of an effective security strategy built for today’s environment and into the future.

As consumer-grade drones have become extremely popular around the world, they’re presenting both unique and frequent threats to privacy, physical security and public safety in a wide variety of environments, including industrial and critical infrastructure, prisons, government facilities, airports, outdoor events and venues, military, homeland security, border control, real assets and executive protection.

What was once protected by high elevations, guard towers, physical barriers or other ground-based preventative measures has now become exposed and penetrable. As such, drone security should be on top of any organisation’s agenda that has a duty to protect the privacy and safety of others.

How safe are your skies?
The DroneShield Solution

DroneShield helps your security forces identify unauthorised drones using proprietary sensor technology, real-time alerts, digital evidence collection and provide a countermeasure (where legal for the user).

Powered by our proprietary multi-sensor detection technology, an enterprise-grade network and real-time alert system, DroneShield is the premier solution to passively sense drones ensuring your security forces are equipped to deal with this new & growing threat. DroneShield also offers a range of countermeasure solutions that are highly effective in deterring drone incidents.

Detection: DroneShield multi-sensor solutions recognise the unique properties of common drone types. This can be done by detecting moving objects by radar, intercepting radio frequency transmissions, listening for acoustic signatures, and visual recognition by thermal and optical cameras.

Analysis: DroneShield compares the recorded information to our database of references and signatures. If it finds a match, the system issues an alert and records identifying information about the aircraft.

Identification: By layering sensor technologies to detect in a single zone, DroneShield increases detection accuracy and decreases the false-alarm rate. We also offer thermal and optical cameras that allow security teams to visually confirm a drone presence.

Alerts: Instant alerts are delivered independently through a variety of methods, including SMS, email, cloud-based GUI or existing video or incident management systems. DroneShield easily integrates into your established security system.

Countermeasures: Once the drone is detected, the user is able to jam the link between the drone and the controller (and, optionally, the drone’s GPS connection), which generally results in the drone either landing vertically on the spot in a controlled manner, or return back to the starting point. This countermeasure is subject to jamming laws applicable to the user.

Outright Purchase, Subscription or Rental Options

When you choose DroneShield® you get the convenience of receiving all software updates for the lifetime of your installation.

By selecting to purchase DroneShield equipment outright there are no ongoing cost commitments. It’s the simplest structure that suits a lot of users.

Our subscription based pricing model provides you with immediate and ongoing benefits which include; Zero CapEx required with none of the upfront and ongoing hardware costs that are often associated with security systems.

DroneShield also offers rental options, ideal for short term installations or events.
DroneSentry integrates DroneShield’s suite of sensors and countermeasures in a unified platform deployable in permanent or temporary installations. Incorporating RadarOne radar, WideAlert acoustic sensors, RfOne RF detectors, and DroneHeat and DroneOpt cameras (with integrated DroneBeam), DroneSentry correlates available data for users and provides maximum situational awareness and the quickest response to airborne threats. DroneSentry also includes the DroneCannon RF countermeasure, providing an end-to-end detection and response capability. It is the ideal protection solution for critical locations and installations.

**Technologies**

<table>
<thead>
<tr>
<th>Primary Detection Method</th>
<th>Secondary Detection Methods</th>
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</thead>
<tbody>
<tr>
<td>RadarOne (Radar)</td>
<td>and/or RfOne (RF Detection)</td>
</tr>
<tr>
<td>DroneHeat (Thermal)</td>
<td>DroneOpt (Optical Cam)</td>
</tr>
<tr>
<td>DroneBeam (Optical Cam)</td>
<td></td>
</tr>
<tr>
<td>DroneHeat (Multiband RF Jamming)</td>
<td></td>
</tr>
<tr>
<td>DroneCannon (GNSS Jamming)</td>
<td></td>
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</tbody>
</table>

**Primary Countermeasure**

<table>
<thead>
<tr>
<th>Secondary Countermeasures</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF</td>
</tr>
<tr>
<td>GNSS</td>
</tr>
<tr>
<td>DroneBeam (Optical Range Extender &amp; Disruptor)</td>
</tr>
</tbody>
</table>
**Specifications**

**Performance:**
Nominal UAS detection ranges:
- RadarOne: 1.5km
- WideAlert: 200m
- RfOne: 1km
- DroneHeat/DroneOpt: 600m for small drones
  2km for large drones
DroneCannon Engagement Range: up to 2km
Optional Equipment Upgrades: FarAlert Acoustic Sensor Array

**Output Options:**
IP-based alerts (email, SMS, XML/JSON) indicating zone and any additional sensor evidence
Mobile (SMS, audible phone call)
Radio frequency audible alerts
DroneShield User Interface

**Communications:**
Wired ethernet connection

**Environment and Installation:**
System components suitable for permanent or temporary installation
Sensor component mounting platform adaptable to suit installation 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.

**Maintenance:**
Routine structural inspection, regular remote database updates, and sensor maintenance.

**Disclaimer:**
DroneSentry has not been authorized as required by the federal communications commission (“FCC”). This device is not, and may not be, offered for sale or lease, or sold or leased, in the United States, other than to the United States government and its agencies, until such authorization is obtained. The use of DroneSentry in the United States by other persons or entities, including state or local government agencies, is prohibited by federal law. Laws limiting the availability of DroneSentry to certain types of users may apply in other jurisdictions, and any sales will be conducted only in compliance with the applicable laws. Jammer affects only frequencies at 2.4GHz, 5.8GHz and GPS/Glonass (optionally), Emergency broadcasts, cellphone communication and other dedicated channels will not be affected.

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DroneSentinel provides the fully integrated sensor suite of DroneSentry without the DroneCannon RF countermeasure capability. With integrated data from all available sensors, users can rapidly detect and assess potential threats. An intuitive user interface provides live and historical data from all sensors, and broadcasts configurable alerts based on user-defined criteria.

It is the ideal detection solution in any environment facing UAS threats.
Specifications

Performance:
Nominal UAS detection ranges:
- RadarOne: 1.5km
- WideAlert: 200m
- RfOne: 1km
- DroneHeat/DroneOpt: 600m for small drones, 2km for large drones.

Output Options:
IP-based alerts (email, SMS, XML/JSON) indicating zone and any additional sensor evidence
Mobile (SMS, audible phone call)
Radio frequency audible alerts
DroneShield User Interface

Communications:
Wired ethernet connection

Environment and Installation:
System components suitable for permanent or temporary installation
Sensor component mounting platform adaptable to suit installation 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.

Maintenance:
Routine structural inspection, regular remote database updates, and sensor maintenance.
DroneGun

Application
Safe countermeasure against a wide range of drone models. Controlled management of drone payload such as explosives. No damage to common drones models or surrounding environment due to:
- vertical controlled landing on the spot, or return back to the starting point (assisting to track the operator)
- Drone remains intact and available for forensic investigation.
- Immediate cease of the video transmission back to drone operator.
- Rifle shape with a backpack.
- Packed in a hard pelican case.
- One person operation.

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Jammer affects only frequencies at 2.4Ghz, 5.8Ghz and GPS/Glonass (optionally). Emergency broadcasts, cellphone communication and other dedicated channels will not be affected.
**Specifications**

**Jammer Specifications**
- Voltage: 16.8+/-0.1V
- Runtime: 2hr
- Charging time: 90min
- Max distance: Up to 2km
- Jammer frequencies: 2.38Ghz-2.483Ghz, 5.725Ghz-5.825Ghz, GPS (optional) & GLONASS (optional) 1450-1650Mhz

**Battery Specifications**
- Lithium-Ion
- V-Mount Batteries
- 14.8V, 90wh
- 0.9kg

**Antenna Specifications**
- Mount: Picatinny Rails / MIL-STD 1913 Rails
- Type: directional antenna
- V-Plane: 10 degrees

**Environment**
- Operating temperature: -10°C to +60°C
- No calibration required, "plug and play"
- No reload time

**Warranty**
- 12 months from date of shipment

**Maintenance**
- No specific maintenance required

**Shipping**
- Ships in a hard box with dimensions 92 x 70 x 49 cm, Total weight 36.5kg including the box packaging.

**Dimensions**
- Sensor body: 85cm x 18cm x 27cm
- Body Weight: 5.7kg
**RadarOne**

**Application**

**Long Range Tracking:** Accurate tracking of airborne targets at ranges up to 1.5km.

**Lightweight:** Man-portable for mobile deployments.

**Self-Positioning:** Built-in GPS and compass eases deployment and ensures track accuracy.

DroneShield RadarOne provides rapid, precise tracking of airborne targets with 360 degrees of azimuth coverage at ranges of 1km or more. It is suitable for mobile and permanent installations, and deploys in minutes.

RadarOne supports automatic tracking of airborne targets and can display hundreds of tracks simultaneously. It is configurable through the DroneShield User Interface.

*It's the ideal long-range detection solution for airborne targets.*

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RadarOne

Specifications

**Performance:**
- Small drone tracking up to 1.5km
- Simultaneous tracking of 500+ targets
- 360° horizontal coverage; 40° azimuth coverage

**Output Options:**
- IP-Based alerts (email, SMS, XML) indicating Zone detected
- Operators real time GUI (Graphical User Interface)

**Power and Communications:**
- AC 20-48V
- Wired ethernet interface with IP-based control/communications

**Environment and Installation:**
- Tower, mast, or tripod mountable.
- All weather design

**Maintenance:**
- Annual manual inspection
- Bi-annual vent membrane inspection

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**RfOne**

**Application**

**Scalable:** Lightweight and modular, allowing four units to be combined for 360 degree coverage.

**Networkable:** Integrates easily with other sensors to enable cuing and improved detection confidence.

**Purpose-Built:** Designed and optimized specifically for detection of drones.

DroneShield RfOne provides reliable RF detection in 90 degree horizontal field of coverage. RfOne is capable of passively detecting the radio frequency emissions from commercial drones and drone operators in excess of 1km.

RfOne detects through pre-conditioned identification and recognition of RF signatures between the controller and drone, detects FPV (First Person Video) RF signals from the drone to controller and listens out for Controller to Drone Telemetry in frequency bands used by commercially available drones.

RfOne has the ability to distinguish non-drone RF activity within the frequency bands of interest.
Specifications

Performance
Rural environment, low RF band contention and noise detection range: > 1.5Kms
Suburban environment detection range estimate: >1km
Urban environment detection range estimate: ≤ 1km
Detects drones operating on 2.4GHz and 5.8Ghz bands

Output Options
IP-Based alerts (email, SMS, XML) indicating Zone detected
Operators real time GUI (Graphical User Interface)

Power and Communications
AC 100-240V & DC 12 or 24V

Environment and Installation
Antennas are tower or mast mountable (IP65),
Receiver and Processor (indoor)

Maintenance
No moving parts, routine inspection only

Warranty
12 months from date of shipment

Note:
4 RfOne Antennas are required for 360° detection
**Application**

**Broad Coverage:** 180 degree range of detection.

**Inconspicuous:** Simple compact design allows for discreet installation.

**Designed For Outdoor Accuracy:** Weather resistant and filters common environmental noise.

**Simple to Install:** Small and compact in size, the unit can be install quickly and easily.

DroneShield® WideAlert Sensors provide 180 degree coverage of local acoustic activity at close range. Small and compact in size, it is the perfect solution for inconspicuous installation.

An all-weather design withstands extreme outdoor conditions, allowing it to distinguish common environmental noise sources from drone activity. Sensors can be configured remotely using the DroneShield® User Interface.

**Perfect for suburban and urban environments.**
WideAlert

Specifications

Performance
Microphone: suburban environment: up to 200m
Warning times are dependent on distance to perimeter

Output Options
IP-based alerts (email, SMS, XML/JSON) indicating zone, drone type, and digital evidence
Mobile (SMS, audible phone call)
Radio frequency audible alerts

Power and Communications
12-48VDC, PoE, or 120v/240vAC power Wi-Fi, wired Ethernet, GSM/GPRS, dry contact relays, XML/JSON

Environment and Installation
Designed to IP65 of IEC529 and NEMA 1, 2, 4, 4x, 12, and 13 specifications
Wall Mount bracket customisable to suit installation requirements
Connects with custom XLR connector (provided)
1.5 inch or 40mm diameter conduit can be inserted into the unit for security and extra environmental protection
CE FCC and RHoS compliant

Maintenance
Routine inspection and regular remote database updates

Warranty
12 months from date of shipment

Colour Options
- Midnight Black
- Cool Grey
- Pearl White

Dimensions
Sensor: 100mm x 100mm x 68mm
Far Reaching Drone Detection

**Far Alert**

**Application**

**Far Reaching:** Detect up to 1km.

**Convenient:** Remotely configurable using the DroneShield User Interface.

**Durable:** Weather resistant.

**Accurate:** Able to distinguish drone activity from common environmental noise sources at superior distances.

DroneShield Far Alert Sensors ensure your drone surveillance capabilities are maximised with an extended-area drone detection reach of up to a 1km radius. Sensors can be configured remotely using the DroneShield® User Interface.

It’s the ideal first-line detection solution, affording your security force with time to react.

droneshield.com
FarAlert

Specifications

Performance
- Rural environment, medium drone: 500-1000m
- Suburban environment, small drone: 250-500m
- Urban environment, small drone: 100-250m
Warning times are dependent on distance to perimeter

Output Options
- IP-based alerts (email, SMS, XML/JSON) indicating zone, drone type, and digital evidence
- Mobile (SMS, audible phone call)
- Radio frequency audible alerts

Power and Communications
- 12–48VDC, PoE, or 120v/240vAC power
- Wi-Fi, wired Ethernet, GSM/GPRS, dry contact relays, XML/JSON

Environment and Installation
- Designed to IP65 of IEC529
- Mounts to standard cell tower base station antenna mounts

Maintenance
- Routine inspection and regular remote database updates

Warranty
- 12 months from date of shipment

Dimensions
- Parabolic microphone: 66cm diameter x 26cm
- Weight: 15kg

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**DroneOpt & DroneHeat**

**Application**

**Long Range Verification:** Enables security teams to visually verify the existence of a drone up to 2km away.

**Thermal & Video:** High definition video and advanced thermal feeds allow the human to identify and zoom in on the threat.

**Robust Design:** IP 67 rated, rugged design and construction.

**Integrated:** The effectiveness of the unit is greatly enhanced when integrated with existing DroneShield detection products.

**PTZ (Pan, Tilt, Zoom)**

- **Pan Rotation:** Continuous
- **Pan Speed:** 0.005° to 50°/Sec*
- **Tilt Range:** +90° to -90°
- **Tilt Speed:** 0.005° to 50°/Sec*
- **Actuation:** Stepper Motors
- **Position Encoders:** Optical encoders on pan and tilt motors
- **Repeatability:** 0.01°
- **Temperature Range:** -40°C to +60°C
- **Power:** 5.0Amps, 120/240VAC
- **Control:** RS485/IP
- **Protocol:** Pelco D
- **Housing Material:** Cast Aluminum, Finish Xylan undercoat with epoxy powder coat finish

DroneHeat & DroneOpt offer thermal video feed with 10x optical zoom and HD colour video with 30x optical zoom enabling the human to both detect and verify drone threat events. Both thermal and video outputs are provided simultaneously.

The design of the unit allows for it to be operated in extremely harsh environments.

**It’s the ideal solution for human verification of a drone threat.**

*DroneOpt GUI Example*

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DroneOpt & DroneHeat

**DroneOpt (Video) Specifications**

**HD Color Camera with 30x Optical Zoom**
- Image sensor 1/2.8-type ‘Exmor’ CMOS
- Signal system: HD: 1080p
- Number of total pixels: Approx. 2.13 Megapixels
- Lens: 30x optical zoom,
  - f=4.3 mm (wide) to 129.0 mm (tele),
  - F1.6 to F4.7
- Digital zoom: 12x
  - (360x with optical zoom)
- Angle of view: (H) 1080p/30 mode:
  - 63.7° (wide end) to 2.3° (tele end)
- Minimum illumination:
  - High sensitivity mode: 0.01 lx (F1.6, 50 IRE)
- Image Stabilizer

**DroneHeat Specifications**

**Thermal Camera**
- Uncooled Vanadium Oxide Microbolometer
  - LWIR
  - 25mm - 225mm continuous zoom lens
- FOV: 24.5 deg – 2.7 deg
- Optical Zoom: 10x
  - F1.5
- Digital Zoom

**Environment & Installation**
- IP67 Rated

**Warranty**
- 24 months from date of shipment

**Performance**
- Manual Verification Range
  - Small drone (DJI Phantom or equivalent): 600m
  - Large drone (DJI M600 or equivalent): 2.0km

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DroneBeam offers a 12,000,000 candle power remotely enabled spotlight that greatly extends the engagement range of the attached DroneOpt camera. In addition, its powerful beam is an effective optical countermeasure, overpowering optical sensors in the path of the beam. Featuring adjustable beam width and intensity, DroneBeam is the perfect complement to DroneOpt for operator verification of potential threats.

Perfect for the long range visual identification of targets.
**Specifications**

**Performance**
- Output: 12,000,000 Peak Beam CandlePower (-10% minimum threshold; no maximum threshold)
- Range: 3,500 meters (1 lux on target)
- Beam Width: 1° Spot to 40° Flood
- Beam Intensity: 3 Levels: 85W, 45W, 35W
- Strobe: User-Adjustable Rate (1-31Hz) and Duty Cycle (3-63%)

**Power and Communications**
- Control Method: RS-232 Protocol (Serial Communication)

**Environment and Installation**
- Ingress Protection: IP67 as per CEI/IEC 60529:2001
- Operating Temperature: -15°C to +60°C
- Housing: Alodined Aluminum per MIL-DTL-5541F Type 1, Class 3 with Polyester Powder-Coat Finish

**Maintenance**
- Lamp: Field Replaceable Xenon Short Arc Lamp (Kit #MBA-2400)
- MTBF: 1500 hours (lamp); maintenance/replacement recommended at 1000 hours

**Warranty**
- Lamp - 90 days
- All other components - 1 year
Disclaimer:
DroneCannon has not been authorized as required by the federal communications commission ("FCC"). This device is not, and may not be, offered for sale or lease, or sold or leased, in the United States, other than to the United States government and its agencies, until such authorization is obtained. The use of DroneCannon in the United States by other persons or entities, including state or local government agencies, is prohibited by federal law. Laws limiting the availability of DroneCannon to certain types of users may apply in other jurisdictions, and any sales will be conducted only in compliance with the applicable laws.

Jammer affects only frequencies at 2.4Ghz, 5.8Ghz and GPS/Glonass (optionally). Emergency broadcasts, cellphone communication and other dedicated channels will not be affected.

Application

**Fast Response**: Instant activation.
**Non-lethal Countermeasure**: drones are either forced to ground at the point of jamming or return-to home (back to the controllers pre-designated position).
**GNSS Jamming**: option to interrupt the drone’s navigation capability, normally forcing it to ground in a controlled descent and landing.
**Immediately interrupts FPV transmissions back to the controller**

Ability to jam both 2.4GHz and 5.8GHz ISM bands simultaneously

**360° Jamming**: capability in 4 x 90 degree sectors.
Effective drone jamming distance with a controller to drone distance ratio of ≤ 3:1 will be up to 2km.

Specifications

Performance

Environment and Installation

Antennas are tower or mast mountable (IP65).

Controller and Transmitter equipment (indoor)

Power and Communications

AC 100-240V & DC 28V

Maintenance

No moving parts, routine inspection only

Warranty

12 months from date of shipment

Note:

4 sets DroneCannon RF Antennas are required for 360° jamming.

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Application

**Versatile:** Does not require internet connection (note: optional internet connection may be activated by the user for technical support and periodic drone database updates). Ideal for situations where internet connection is not possible or desired.

**Accurate:** Precise identification of drone detection events from multi-sensor data streams.

**Real Time:** Instantly notifies you of drone activity.

The BaseProcessor collects information from multi-sensor data streams to identify drone threats.

When it identifies a likely threat, the BaseProcessor issues instant alerts via email, GUI or alarm systems through JSON, XML, or dry contact relays.

Perfect for facilities requiring an ‘air-gapped’ solution.
CONTINUOUS, ONLINE MONITORING OF LOCAL DRONE ACTIVITY

Monitoring & Alerts

**Application**

**Scalable:** Platform is built on a back-end infrastructure that scales to any size.

**Immediate:** Reports live, ongoing activity.

**Flexible:** Can be used for single multi-sensor sites or several multi-sensor nodes working together.

**Convenient:** Can be accessed and configured remotely from any web browser, wherever there is Internet connectivity.

**Compatible:** Easily integrates into existing security systems.

User Interface is included with purchase of any DroneShield detection system.

The DroneShield User Interface displays alert information and other critical sound and system data. A visual interface delivers live readings from DroneShield sensors, providing real-time visibility to surrounding drone detection activity. Remote access to your DroneShield sensors allows you to check statuses, monitor threat levels, respond to real-time alerts, and configure your system settings.

The convenient browser-based monitoring application lets you view and control your DroneShield detection activity from anywhere.
For Further Information

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