





Drone security systems | A first-mover in a global industry | Sydney, Australia and Virginia, USA ASX:DRO (shares) and ASX:DROO (options)

Annual General Meeting | 29 May 2018

# RESOLUTION 1 ADOPTION OF REMUNERATION REPORT



## Resolution 1 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

"That, for the purpose of section 250R(2) of the Corporations Act and for all other purposes, approval is given for the adoption of the remuneration report as contained in the Company's Annual Financial Report for the financial year ended 31 December 2017."

For	Against	Open	Abstain
121,830,091	131,245	136,812	0
99.78%	0.11%	0.11%	n/a

# RESOLUTION 2 RE-ELECTION OF MR PETER JAMES AS DIRECTOR



## Resolution 2 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

For	Against	Open	Abstain
121,968,750	155,878	136,812	563,292
99.76%	0.13%	0.11%	n/a

<sup>&</sup>quot;That Mr Peter James, a Director who retires by rotation in accordance with the Company's Constitution and ASX Listing Rule 14.4, and being eligible offers himself for re-election as a Director of the Company, effective immediately."

# RESOLUTION 3 RE-ELECTION OF MR BRADLEY BUSWELL AS DIRECTOR



## Resolution 3 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

For	Against	Open	Abstain
122,632,042	55,878	136,812	0
99.84%	0.05%	0.11%	n/a

<sup>&</sup>quot;That Mr Bradley Buswell, a Director appointed as an additional Director and holding office until the next annual general meeting of the Company after his appointment in accordance with the Company's Constitution and ASX Listing Rule 14.4, be re-elected as a Director of the Company, effective immediately."

# RESOLUTION 4 RATIFICATION OF PRIOR ISSUE OF EQUITY SECURITIES



## Resolution 4 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

"That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, the Shareholders ratify the allotment and prior issue of 955,971 fully paid ordinary shares issued on 28 June 2017 (June Shares), and on terms and conditions all of which are described in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
122,568,665	113,015	143,052	0
99.79%	0.09%	0.12%	n/a

# RESOLUTION 5 RATIFICATION OF PRIOR ISSUE OF EQUITY SECURITIES



## Resolution 5 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

"That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, the Shareholders ratify the allotment and prior issue of 11,610,000 fully paid ordinary shares issued on 1 November 2017 (November Shares), and on terms and conditions all of which are described in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
116,326,107	103,015	143,052	0
99.79%	0.09%	0.12%	n/a

# RESOLUTION 6 RATIFICATION OF PRIOR ISSUE OF EQUITY SECURITIES



## Resolution 6 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

"That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, the Shareholders ratify the allotment and prior issue of 3,869,984 listed options issued on 1 November 2017 (November Listed Options), and on terms and conditions all of which are described in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
116,226,107	103,015	143,052	100,000
99.79%	0.09%	0.12%	n/a

# RESOLUTION 7 RATIFICATION OF PRIOR ISSUE OF EQUITY SECURITIES



## Resolution 7 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

"That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, the Shareholders ratify the allotment and prior issue of 2,000,000 unlisted options issued on 1 November 2017 (November Unlisted Options), and on terms and conditions all of which are described in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
122,462,585	219,095	143,052	0
99.71%	0.18%	0.12%	n/a

# RESOLUTION 8 RATIFICATION OF PRIOR ISSUE OF EQUITY SECURITIES



## Resolution 8 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

"That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, the Shareholders ratify the allotment and prior issue of 12,166,193 fully paid ordinary shares issued on 29 March 2018 (March Shares), and on terms and conditions all of which are described in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
122,478,665	103,015	143,052	0
99.80%	0.08%	0.12%	n/a

# RESOLUTION 9 RATIFICATION OF PRIOR ISSUE OF EQUITY SECURITIES



## Resolution 9 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as an **ordinary resolution**:

"That, for the purposes of ASX Listing Rule 7.4 and for all other purposes, the Shareholders ratify the allotment and prior issue of 3,041,548 unlisted options issued on 29 March 2018 (March Unlisted Options), and on terms and conditions all of which are described in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
122,452,585	129,095	143,052	100,000
99.78%	0.11%	0.12%	n/a

# RESOLUTION 10 ASX LISTING RULE 7.1A APPROVAL OF FUTURE ISSUE OF SECURITIES



## Resolution 10 is as follows:

► To consider and, if thought fit, to pass, with or without amendment, the following resolution as a **special resolution:** 

"That, for the purposes of ASX Listing Rule 7.1A and for all other purposes, the Shareholders approve the issue of equity securities up to 10% of the issued capital of the Company (at the time of issue) calculated in accordance with the formula prescribed in ASX Listing Rule 7.1A.2 and otherwise on the terms out in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
122,472,755	213,015	138,962	0
99.71%	0.17%	0.11%	n/a

# RESOLUTION 11 APPROVAL OF ISSUE OF OPTIONS TO DIRECTOR- MR OLEG VORNIK



## Resolution 11 is as follows:

► To consider and, if thought fit, to pass the following resolution as an **ordinary resolution**:

"That, for the purposes of section 195(4) and section 208 of the Corporations Act, ASX Listing Rule 10.11 and for all other purposes, the Shareholders approve the Company to issue 12,400,000 Options to Oleg Vornik, a Director (or his nominee) on the terms set out in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
104,671,721	17,850,757	138,962	0
85.33%	14.55%	0.11%	n/a

# RESOLUTION 12 APPROVAL OF ISSUE OF OPTIONS TO DIRECTOR- MR PETER JAMES



## Resolution 12 is as follows:

► To consider and, if thought fit, to pass the following resolution as an **ordinary resolution**:

"That, for the purposes of section 195(4) and section 208 of the Corporations Act, ASX Listing Rule 10.11 and for all other purposes, the Shareholders approve the Company to issue 6,600,000 Options to Peter James, a Director (or his nominee) on the terms set out in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
121,721,721	400,757	138,962	0
99.56%	0.33%	0.11%	n/a

# RESOLUTION 13 APPROVAL OF ISSUE OF OPTIONS TO DIRECTOR- MR ROBERT CLISDELL



## Resolution 13 is as follows:

► To consider and, if thought fit, to pass the following resolution as an **ordinary resolution**:

"That, for the purposes of section 195(4) and section 208 of the Corporations Act, ASX Listing Rule 10.11 and for all other purposes, the Shareholders approve the Company to issue 1,600,000 Options to Robert Clisdell, a Director (or his nominee) on the terms set out in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
122,380,923	300,757	143,052	100,000
99.64%	0.25%	0.12%	n/a

# RESOLUTION 14 APPROVAL OF ISSUE OF OPTIONS TO DIRECTOR- MR BRADLEY BUSWELL

## Resolution 14 is as follows:

► To consider and, if thought fit, to pass the following resolution as an **ordinary resolution**:

"That, for the purposes of section 195(4) and section 208 of the Corporations Act, ASX Listing Rule 10.11 and for all other purposes, the Shareholders approve the Company to issue 1,800,000 Options to Bradley Buswell, a Director (or his nominee) on the terms set out in the Explanatory Statement which accompanies and forms part of this Notice of Meeting."

For	Against	Open	Abstain
122,380,923	300,757	143,052	0
99.64%	0.24%	0.12%	n/a

# RESOLUTION 15 APPROVAL OF ISSUE OF OPTIONS TO MANAGEMENT AND EMPLOYEES



## Resolution 15 is as follows:

► To consider and, if thought fit, to pass the following resolution as an **ordinary resolution**:

"That, for the purposes of ASX Listing Rule 7.1 and for all other purposes, the Shareholders approve the Company to issue up to 2,459,384 Options to management and employees on the terms set out in the Explanatory Statement which accompanies and forms part of this Notice of Meeting"

For	Against	Open	Abstain
122,413,430	263,100	145,202	3,000
99.67%	0.21%	0.12%	n/a

## THE ISSUE





<u>Click here</u> to watch an 80 second video of the US Secretary of Defence General Jim Mattis testify on drone threats before the U.S. Senate

Secretary of Defence: On the UAS, "this is becoming <u>an increasing problem</u>, across... our [military] bases, ships, airfields... <u>I was surprised to see how much of this is being dealt with</u>.... The problem is that it's a <u>matter of time before the threat is going to manifest itself in a violent way</u>... [We are going to] get authority out and get the systems out to get them down"

## THE ISSUE (CONTINUED)





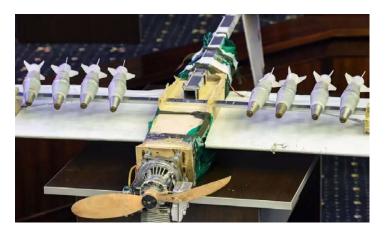
<u>Click here</u> to watch a two minute video of FBI director Christopher Wray and Nicholas Rasmussen, Director of the National Counterterrorism Center testify on drone threats before the U.S. Senate Committee on Homeland Security & Governmental Affairs in Washington on September 26, 2017

- ► FBI Director: Terrorist drones "<u>coming here imminently</u>..."
- National Counterterrorism Center Director: "Two years ago this wasn't a problem, one year ago it was an emerging problem and **now it's a real problem.**"

## THE ISSUE (CONTINUED)



- May 2018: FBI hostage rescue team reported to have been attacked by a swarm of drones during a hostage raid
- ► Feb 2018: Drone <u>"dive bombing" passenger jet</u> above Las Vegas
- Jan 2018: Homemade drones <u>bomb a Russian Airbase</u> in Syria
- Nov 2017: The U.S. Department of Homeland Security issued a terror bulletin focusing on the threat of weaponised drones
- Nov 2017: A <u>drone struck an Aerolinas Argentinas</u> <u>passenger Boeing</u> on final approach to Buenos Aires Airport in Argentina, and the passenger jet sustained damage
- Oct 2017: Footage uploaded to YouTube reportedly showed an armed ISIS drone destroying an arms depot in northern Syria
- Sep 2017, Washington Examiner: Former Secret Service agent: drone "swarm attacks" pose "grave threat" to President Trump. Terrorists <u>have considered drones "for a long time,"</u> and <u>"the real threat comes from the more spectacular</u> swarm attacks."







## DRONESHIELD AT A GLANCE



- Based in Sydney (Australia) and Warrenton (Virginia), DroneShield (ASX:DRO) is a worldwide leader in drone detection and countermeasure solutions
  - Current market capitalisation of approximately A\$30m



His Excellency President of France Emmanuel Macron, French Minister of the Armed Forces Florence Parly and the Chief of Staff of the Army Jean-Pierre Bosser review DroneGun Tactical<sup>TM</sup>

## DRONESHIELD AT A GLANCE (CONTINUED)



## ► An established player in the market

- Has made early international sales
- ► Limited number of readily-available competing products
- Land grab is on, significant first mover advantage
- Global network of 60 distributors in 50 countries

## Complete drone defence solution – products are available today

- ▶ DroneGun<sup>TM</sup> portable rifle style drone jammer
- ▶ DroneSentinel<sup>TM</sup> the most extensive drone detection product in the marketplace with radar, RF, thermal, optical and acoustic sensors working together
- ▶ DroneSentry<sup>TM</sup> DroneSentinel<sup>TM</sup> with a built-in drone jammer



## DRONESHIELD AT A GLANCE (CONTINUED)



- Unique global positioning in a growing market an Australian company with operations in the U.S. and support from the Australian Government
- Multiple end-user trials have been and are being undertaken by governmental organizations globally
  - Products have been modified in response to end-user requirements
- ► An estimated US\$12 billion+ addressable market hundreds of thousands of potential customer installations
- Substantial sales pipeline dozens of contracts pursued globally, ranging from tens of thousands of dollars to tens of millions of dollars each\*
  - ► Including the U.S., the UK, Australia, France, South Korea and Spain
  - Well positioned in competitive tenders, and direct noncompetitive sales processes with military, law enforcement, civil infrastructure and head of state/presidential customers
  - Small Paraguay government tender won in the recent months – first domino
- Attracted interest of large defence companies and security integrators
  - Mesirow Financial is running a strategic option process



Queensland Police Service officer with DroneGun MKII<sup>™</sup> during Commonwealth Games in Brisbane in April 2018

<sup>\*</sup> Necessarily, not all (and there can be no assurance that any) of these sales opportunities will result in sales.

# LARGE ADDRESSABLE MARKET WITH NUMEROUS END MARKET APPLICATIONS



- The commercial and consumer drone market is growing rapidly and propelling the need for drone detection and countermeasure products and solutions
  - ▶ It is expected that over \$100 billion will be spent on drones (consumer / commercial / military) over the 2016 2020 period<sup>[1]</sup>
  - ▶ The global market for counter-drone technology is expected to grow to an estimated \$1.9 billion by 2024<sup>[2]</sup>
- The Company's products and technology have numerous end market applications, including both military and commercial uses
- Management estimates that there are over 300,000 potential customer facilities worldwide in need of 10-20 units per installation
- DroneShield believes that a targeted sales and business development effort geared towards military customers should yield the most substantial near-term results and help the Company achieve traction in many of its other identified end markets

#### **Military**

#### **Law Enforcement**

#### **Critical Infrastructure**

Prisons
(20,000 globally)









**Airports** 

**Special Events** 

Commercial Venues
(including 41,000+ hotels)

VIP Residences

(42,000 globally)



(200,000+ high net worth individuals)







[1] Source: Goldman Sachs Research [2] Source: Grandview Research

# ACTIVE INDUSTRY PARTICIPANT WITH HIGH PROFILE ORDERS / INSTALLATIONS



DroneShield has had a number of high-profile U.S. and international customer orders / installations

Boston Marathon (2015-2017)

✓ Deployed by the Boston Police Department as the exclusive drone security provider of the event for three straight years

2018 Winter Olympic Games

✓ Successful deployment at the 2018 Winter Olympics in South Korea

Asian Homeland Security

✓ Protection of sensitive government buildings of a major Asian country

2017 Hawaii IRONMAN

✓ Deployed counterdrone security throughout the 141 mile course

2018 U5G Marine Corps Exercise

✓ U.S. Marines hold this exercise to evaluate new technologies for subsequent acquisition and deployment considerations

✓ DroneShield selected from a large number of applicants

**Paraguay Government Tender** 

✓ In-field evaluation order was granted and approved for delivery by the relevant U.S. regulator<sup>[1]</sup>

Dutch DroneSentinel™ Order

✓ The first order for the DroneSentinel<sup>TM</sup> was announced on March 5, 2018 for approximately US\$164,000

✓ The order was the first to incorporate the RadarZero

2018 Commonwealth Games

✓ Multiple DroneGuns<sup>TM</sup> deployed throughout the 12 day event

✓ Approximately 6,600 athletes from approximately 70 countries participate in the games

2018 ASEAN Summit

✓ DroneGun<sup>™</sup> deployed by the Australian Defence Force on behalf of the New South Wales Police

Proven Product and Technology Platform as Evidenced by High-Profile Customer Installations

[1] Only some of the Company's potential orders require such approval. Sales of some of the Company's products do not require regulatory approval and sales of the Company's restricted products to a number of countries allied with the U.S. do not require such approval

## SELECTED RECENT ANNOUNCEMENTS



11 Oct 2017	Appointment of Mesirow Financial
17 Nov 2017	▶ DroneGun <sup>™</sup> Wins Paraguay Government Tender
27 Dec 2017	▶ DroneGun MKII™ Certified for Human Exposure
29 Jan 2018	▶ 2018 U5G Marine Corps Exercise
31 Jan 2018	▶ DroneShield releases DroneGun Tactical™ product
1 Feb 2018	► SOFWERX ThunderDrone RPEII Event
2 Feb 2018	Paraguay Government Tender
7 Feb 2018	► DroneShield Rolls Out Revolutionary Compact Radar
14 Feb 2018	▶ DroneShield Assigned a NATO Stock Number for DroneGun <sup>TM</sup>
19 Feb 2018	United States / Canada Joint Certification Program DD2345
28 Feb 2018	► Statement by The Queensland Police Service
5 Mar 2018	First DroneSentinel Order / European Demo Hub
5 Mar 2018	Statement on French Media Reports
12 April 2018	► DroneShield protects NASCAR
23 April 2018	► DroneShield protects ASEAN
14 May 2018	► European Hub commences government demonstrations
21 May 2018	Airport Environment Certification



Hon Christopher Pyne, Minister for Defence Industry, examining DroneGun Tactical<sup>TM</sup> with DroneShield's CEO Oleg Vornik

## DRONEGUN TACTICAL<sup>TM</sup> – COMPETITIVE ADVANTAGES



## Universally targets a wide range of drones:

- Effective against majority of known commercial drones on the market today
- Avoids "arms race" with drone manufacturers
- Does not require a separate "hack" program for each individual drone type

## ► Safe and effective solution for neutralizing the threat of drones:

- ► Effectively removes the ability for pilot and drone to communicate within expected distance ratios from DroneGun<sup>TM</sup> operator
- Once "jammed" the most common on board responses of commercial drones is to either fly back to starting point, reduce elevation and hover, or land vertically on the spot in a controller manner
- ► The drone does not drop down unlike kinetic or net-based systems, which could create casualties and/or property damage if the drone is carrying a dangerous substance or falls on a person or an object

## Significant range coupled with precision:

- ▶ 1km effective range
- Directional jamming more effective vs omni jammers, no unnecessary 360 degree signal pollution

### **Benefits:**

- ► Portable can be easily carried by a single person
- Gun shape: greater appeal to military and law enforcement than a "box with antennas"
- No backpack







## DRONESENTINEL AND DRONESENTRY













## DRONESENTINEL<sup>TM</sup> / DRONESENTRY<sup>TM</sup> – COMPETITIVE ADVANTAGES



RadarOne or RadarZero	<ul><li>RadarOne: 360 degree, 2D radar with detection up to 1 km</li></ul>	
Radal Offe of Radal Zelo	RadarZero: 120 degree, 3D radar with detection up to 750 m	
RfOne	<ul><li>360 degree RF, detection up to 5km away</li></ul>	
WideAlert and FarAlert	<ul> <li>Acoustic detection up to 500m away, as well as at close range</li> </ul>	
DroneOpt, DroneHeat, DroneBeam	Optical and thermal cameras	
DroneCannon	Directional jamming, integrated with detection	

- ▶ The only product with these multiple detection methods
- ► Non-line of sight detection
  - Detects drones behind objects (via RF and acoustic sensors)
- Night-time detection
  - Via RF, acoustic, thermal and optical (with DroneBeam support) sensors
- Low flight detection
  - Drones can fly very low, barely over the fence lines
- Detection range
  - Up to 1km detection via RadarOne and up to 5km for RfOne sensors
- Effective coverage area
  - ▶ 360 degrees horizontally for RadarOne, RfOne, and WideAlerts no cueing needed
- ► False alarms reduced through multi-sensor detection
- Markedly less expensive than any comparable product



 $DroneSentry^{TM}$  schematic

## HIGHLY EXPERIENCED GLOBAL DISTRIBUTION NETWORK



- The DroneShield sales team is an accomplished, competitive and entrepreneurial group with a proven track record of success
- The Company has a number of high-value opportunities presently in the pipeline

#### The DroneShield Sales Advantage

- Technical Knowledge: The DroneShield global distribution network/in-country partners are well-versed in the products and technology they sell. All channel partners have strong aerospace and defence backgrounds (along with prior military / law enforcement experience) and possess expert level knowledge of the Company's product and technology portfolio. Consequently, in-country partners are able to utilise a highly-effective consultative approach to business development
- Competitive / Entrepreneurial: DroneShield has created a competitive and entrepreneurial environment for global network to succeed, maintaining existing accounts while cultivating new prospective customers
- A Wide Global Network of Established Relationships: The Company maintains relationships with over 60 distributors located in over 50 countries

#### **Global Distribution Network**





DroneShield's Madrid demo

= DroneShield's Distribution Network

## CAPITAL STRUCTURE



- Over 1,400 shareholders
- ► A\$7.8 million in market liquidity over the recent 12 months

Shareholders	Shares (ASX:DRO)	Listed Options (ASX:DROO)	Performance Shares and Unlisted Options
Shareholders	169,671,553	33,369,541	45,000,000
Unlisted Options	-	-	34,391,548
Total	169,671,553	33,369,541	79,391,548

Enterprise Value		
DRO shares	A\$0.19 / share*	A\$32.24m
DROO options	A\$0.001 / option*	A\$0.04m
Cash	As at 31 March 2018	(A\$3.78m)
Debt	As at 31 March 2018	nil
Enterprise Value	Excluding unlisted options	A\$28.50m

<sup>\*</sup> As at 9 May 2018



## **BOARD OF DIRECTORS**



## Peter James, Independent Non-Executive Chairman



Mr. James has over 30 years' experience in the Technology, Telecommunications and Media Industries, and has extensive experience as Chair, Non-Executive Director and Chief Executive Officer across a range of publicly listed and private companies. He is currently Chair of ASX-listed companies Aquabotix, Dreamscape Networks, Macquarie Telecom and nearmap.

Mr. James has recently completed 12 years as a Non-Executive Director for ASX-listed iiNet, Australia's second largest DSL Internet Services Provider, chairing iiNet's Strategy and Innovation Committee. iiNet was recently acquired by TPG Telecom for AUD \$1.56b.

He travels extensively reviewing innovation and consumer trends primarily in the U.S. and also Asia and he is a successful investor in a number of Digital Media, e-commerce and Technology businesses in Australia and the U.S.

Mr. James is an experienced business leader with significant strategic and operational expertise. He is a Fellow of the Australian Institute of Company Directors, a Member of the Australian Computer Society and holds a BA Degree with Majors in Computer Science and Business.

## Oleg Vornik, Chief Executive Officer and Managing Director



An experienced senior executive with investment banking and treasury experience at the Royal Bank of Canada, Leighton Contractors, Brookfield, Deutsche Bank and ABN AMRO.

Mr. Vornik was the Chief Financial Officer of DroneShield prior to his appointment as CEO and MD. Prior to DroneShield, he was an investment banker with the Sydney office of the Royal Bank of Canada, and held roles with Brookfield Asset Management, Deutsche Bank and ABN AMRO in Australia and New Zealand as well as the position of a Treasurer at Leighton Contractors.

Mr. Vornik holds a BSci (Mathematics) and BCom (Hons) from University of Canterbury, New Zealand and has completed a business program with Columbia University in New York.

## **BOARD OF DIRECTORS (CONTINUED)**



### Bradley Buswell, Independent Non-Executive Director



Mr. Buswell, based in Washington, DC, brings to the Board extensive experience in successfully leading businesses and U.S. government agencies.

From September 2013 to July 2015, Mr. Buswell was president of the North Americas division of Rapiscan Systems, Inc., a world leader in state of the art security screening products, services and solutions. Amongst other initiatives, Mr. Buswell led the launch of the Real Time Tomography product line, ensuring U.S. government certification of the technology for aviation screening and securing the first competitive contracts for installation in European airports. Before joining Rapiscan, Mr. Buswell served as President and CEO of Morpho Detection, Inc. (previously General Electric Homeland Protection prior to being acquired by Safran, a French aerospace and defence company) from July 2010 to July 2013. Mr. Buswell developed and implemented a growth-targeted strategy for Morpho Detection, translating global security needs into a market leading products and services portfolio through internal investment and strategic acquisitions.

Mr. Buswell's previous experience includes over 20 years as a submarine officer in the U.S. Navy where he served in a variety of assignments including Congressional Liaison for Navy R&D programs at the Navy Office of Legislative Affairs and Chief of Staff at the Office of Naval Research. Mr. Buswell graduated from the U.S. Naval Academy with a Bachelor of Science in Systems Engineering, and the George Washington University with a Master of Business Administration.

### Robert Clisdell, Non-Executive Director



Mr. Clisdell is based in Sydney and is the Vice-President at Bergen Capital (Australia) Ltd, an affiliate of the Company's largest shareholder.

Prior to Bergen, Mr. Clisdell led the middle market corporate advisory practice for Credit Suisse's Private Bank in Melbourne. Prior to Credit Suisse, Mr. Clisdell was an M&A banker with Caliburn Partnership (now Greenhill & Co.) in Sydney, and worked in Equity Capital Markets at Ord Minnett Corporate Finance. Mr Clisdell began his career with Arthur Anderson and qualified as a Chartered Accountant in 2005. He holds a Bachelor of Commerce from the University of Sydney and a Graduate Diploma in Applied Finance from FINSIA.

## **MANAGEMENT**



#### John Franklin, Chief Scientific Officer



Mr. Franklin holds a M.Sc. in Applied and Computational Math from Johns Hopkins University.

Previously, he was a member of the research staff at the Air and Missile Defense Sector at Johns Hopkins University Applied Physics Laboratory, and Adjunct Research Associate (Science and Technology Division) at the Institute for Defense Analyses.

### Albert Newell, General Counsel



Mr. Newell is an experienced legal and international compliance leader in the U.S. defence and IT sectors.

Mr. Newell previously worked for DXC Technology as the Global Compliance Lead where he oversaw the Anti-Bribery, Global Trade and HIPAA compliance programs. In that role, Mr. Newell coordinated regulatory correspondence, licenses, disclosures and acted as the ITAR and FCPA subject matter expert for the DXC legal department.

Mr. Newell was also involved in managing M&A due diligence, training development, compliance policies and the policy approval process for the company globally. Prior to his tenure at DXC, Mr. Newell spent six years at BAE Systems where he was a compliance officer specializing in export control and third party due diligence.

Mr. Newell holds a BA from the University of Colorado, Colorado Springs; a Juris Doctor of Law degree from the Catholic University in Washington DC and is an active member of the Virginia State Bar.

## **MANAGEMENT**



## Claire Newey, Chief Financial Officer



An experienced Chartered Accountant with 12 years of international financial reporting, management and advisory experience, across public and private companies spanning various industries.

Prior to joining DroneShield, Ms. Newey was Group Finance Manager with GrainCorp (ASX 100). She has previously worked at Deloitte (Sydney and London) as a Director and with global chemical group Adama, as Chief Financial Officer for Switzerland and European Financial Controller.

## Dean Jagger, Company Secretary



Mr. Jagger works in the company secretarial division of Whittens & McKeough, a Sydney based law firm specialising in corporate and commercial law.

Mr. Jagger provides company secretarial and corporate compliance services to several listed public and private companies.

Mr. Jagger has 10 years' experience in the financial services sector.

## **CONTACT DETAILS**



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## **APPENDIX**

DroneGun Tactical<sup>TM</sup>



## Product Description

- DroneGun Tactical<sup>™</sup> is a fully integrated rifle style, safe countermeasure against a wide range of drone models
- The design allows it to be highly portable and is capable of disrupting multiple RF frequency bands simultaneously
- DroneGun<sup>™</sup> does not cause any damage to common drone models or the surrounding environment
- This product does not require a backpack, increasing portability
- Affects frequencies at 2.4 Ghz, 5.8 Ghz, 433 Mhz, 915 Mhz and GPS/GLONASS (optionally)



- Weight: 15 lbs (6.8 kg) including two batteries
- Range: Up to 0.62 miles (1.0 km)
- Uses two Lithium-Ion, rechargeable batteries with 30+ minutes of operating time with continuous use
- Operating temperature: -20°C to +55°C
  - Battery warmers are available for colder climates although drones generally don't fly in adverse weather conditions
- 12 month warranty from the date of shipment
- Dimensions: 104.1 cm x 41.0 cm x 12.2 cm









DroneSentry<sup>TM</sup>

# Product Description

- DroneSentry<sup>™</sup> integrates DroneShield's full suite of sensors and countermeasures into a unified platform deployable in permanent or temporary installations
- Analyses data and provides maximum situational awareness and the quickest response to airborne threats
- Includes the DroneCannon<sup>™</sup> RF countermeasure and DroneBeam<sup>™</sup> optical range extender & disruptor, which provides end-to-end detection and response capabilities
- False alarms reduced through multi-sensor detection

## Product Features

- Nominal UAS detection ranges
  - RfOne<sup>TM</sup>: up to 5 km
  - RadarOne<sup>TM</sup>: 1 km
  - RadarZero<sup>TM</sup>: 850 meters
- Nominal UAS identification ranges
  - WideAlert<sup>TM</sup>: 200 meters
  - DroneHeat<sup>TM</sup> & DroneOpt<sup>TM</sup>: 600 m for small drones, 1.5 km for large drones
- DroneCannon<sup>TM</sup> engagement range: up to 1 km
  - Can be factory modified for improved range
- Can provide IP-based alerts (email, SMS, XML/JSON), mobile alerts, radio frequency audible alerts and DroneShield User Interface
- Stand-alone dimensions: 7.2 meters tall and 1.8 meters wide





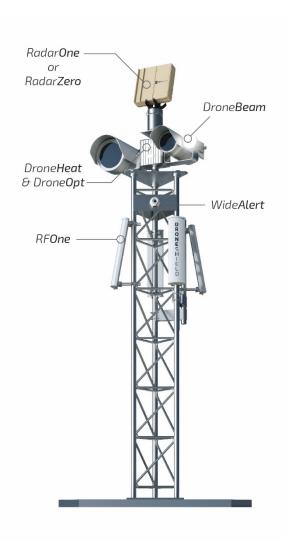


## **Product Description**

- DroneSentinel<sup>TM</sup> utilises the fully integrated sensor suite of DroneSentry<sup>TM</sup> without the DroneCannon<sup>TM</sup> RF countermeasure capability
- Consolidates 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.

## **Product Features**

- Nominal UAS detection ranges
  - RfOne<sup>TM</sup>: up to 5 km
  - RadarOne<sup>TM</sup>: 1 km
  - RadarZero<sup>TM</sup>: 850 meters
- Nominal UAS identification ranges
  - WideAlert<sup>TM</sup>: 200 meters
  - DroneHeat<sup>™</sup> & DroneOpt<sup>™</sup>: 600 m for small drones,
     1.5 km for large drones
- Can provide IP-based alerts (email, SMS, XML/JSON), mobile alerts, radio frequency audible alerts and DroneShield User Interface
- Stand-alone dimensions: 7.2 meters tall and 1.8 meters wide
  - The height and mounting of the system depends on the location and environment





DroneSentry™ and DroneSentinel™ Modules<sup>[1]</sup>

# RadarOne™

- RadarOne<sup>TM</sup> provides rapid and precise tracking of airborne targets with 360 degrees of horizontal coverage and 40 degrees of vertical coverage
- The product is suitable for mobile and permanent installations and can be deployed in minutes
- Long range tracking capabilities at ranges up to 1 km
- Supports automatic tracking of airborne targets and can display 500+ tracked targets simultaneously
- Can be configured remotely via DroneShield's software system



## RadarZero<sup>TM</sup>

- RadarZero<sup>™</sup> is a revolutionary compact drone detection radar product released in February 2018
- At roughly the size of a paperback book, the product can detect drones up to 850m away and sells for a fraction of the cost of the larger longer-range more conventional radars
- Resultant portability and mobility
- Weight: 1.25 kg
- Dimensions: 20 cm x 16 cm per unit
- 120 degree azimuth coverage and 80 degree vertical coverage per unit
  - Complete coverage achieved through 4 units without requirement for mechanical movement
- 3D data acquisition

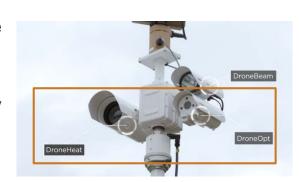




DroneSentry<sup>TM</sup> and DroneSentinel<sup>TM</sup> Modules (continued)<sup>(1)</sup>

DroneHeat<sup>™</sup> and DroneOpt<sup>™</sup> DroneHeat<sup>™</sup> & DroneOpt<sup>™</sup> offer thermal video feed with 10x optical zoom and HD color video with 30x optical zoom enabling the human to both detect and verify drone threat events

- DroneHeat<sup>™</sup> Thermal and video outputs
  - Long range verification enables security teams to visually verify the existence of a drone up to 1.5 km away
  - Pan and tilt speed: 50°/second
  - Tilt range: +90° to -90°
  - Temperature range: -40°C to +60°C



RfOne<sup>TM</sup>

- DroneShield's RfOne<sup>TM</sup> provides reliable RF detection over 15° vertical field of coverage and 360° horizontal field of coverage using 4 x 90° sector antenna panels
- Can passively detect drone radio frequency emissions up to 5 km away
- RfOne<sup>™</sup> can distinguish between non-drone RF activity within certain frequency bands



[1] Modules can be added or removed to match the budget and required performance specifications of individual customers



DroneSentry<sup>TM</sup> and DroneSentinel<sup>TM</sup> Modules (continued)<sup>(1)</sup>

## Drone Cannon™

- DroneCannon<sup>TM</sup> provides jamming coverage over 16° vertically and 360° horizontally using 3 x 120° units
- DroneCannon<sup>™</sup> can be factory-modified to accommodate shorter or longer ranges, as required by the customer
- Drones are forced to ground at the point of jamming or return to their place of origin
- Jamming can interrupt a drone's navigation capabilities and force the drone to the ground in a controlled manner



### FarAlert<sup>TM</sup>

- FarAlert<sup>TM</sup> sensors ensure drone surveillance capabilities are maximized with an extensive drone detection radius of up to 500 meters and 30 degrees of cone coverage
- A weather resistant product that can distinguish drone activity from common environmental noise
- Sensors can be configured remotely using DroneShield's software platform
- Weight: 15 kg
- Dimensions: 66 cm diameter x 26 cm





DroneSentry<sup>TM</sup> and DroneSentinel<sup>TM</sup> Modules (continued)<sup>(1)</sup>



WideAlert™

- WideAlert<sup>TM</sup> sensors provide 120 degree cone coverage of local acoustic activity at close range
- Small and compact design allows for discreet deployment
- Weather resistant
- Environmental noise filtering capabilities
- Microphone can detect sounds up to 200 meters away
- Dimensions: 100 mm x 100 mm x 68 mm



**DroneBeam<sup>TM</sup>** 

- DroneBeam<sup>™</sup> offers a 12 million candle power spotlight that greatly extends the engagement range of the attached DroneOpt<sup>™</sup> camera
- Adjustable beam width and intensity
- 90 day lamp warranty all other components have a one year warranty



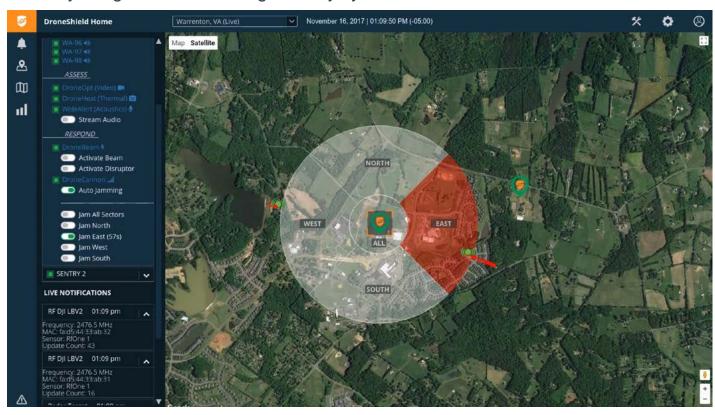
[1] Modules can be added or removed to match the budget and required performance specifications of individual customers



DroneSentry<sup>TM</sup> and DroneSentinel<sup>TM</sup> Modules (continued)<sup>(1)</sup>

## Sensor Fusion Engine / GUI

- DroneShield's proprietary sensorfusion software system compiles and analyses the results collected from each type of sensor to detect a drone and identify the type of drone
- Reports live, can be used for single multi-sensor sites or several multi-sensor nodes
- Integrated Platform delivering a low false-alarm rate and issues instant alerts through email, alarm systems, XML or dry contact relays
- Does not require an internet connection and is ideal for situations where an internet connection is not possible or desired in the field
- Easily integrates into existing security systems



## DRONE SECURITY | A FIRST MOVER IN A GLOBAL INDUSTRY





## DRONE SECURITY | A FIRST-MOVER IN A GLOBAL INDUSTRY















## IMPORTANT CAUTIONARY NOTE



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