17 October 2018

Department 13 Forms Exclusive Counter-Drone Technology Alliance

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Department 13 International Limited (ASX:D13) has today announced an exclusive partnership with Counter-Unmanned Aerial Systems (C-UAS) Intellectual Property specialist XiDrone Systems Inc. ("XiDrone").

The exclusive partnership will see D13 and XiDrone work jointly on an ongoing basis to advance IP development relating to C-UAS, autonomous systems and wireless communications. D13 believes this collaborative approach with XiDrone will significantly bolster the Company's unrivalled IP position and simultaneously accelerate D13s expansion within the C-UAS industry by enabling D13 to integrate with other C-UAS technologies in a patented environment.

XiDrone's IP portfolio contains the first U.S. and European patents for integrated multi-sensor, counter-drone technology which focuses upon collecting integrated sensor data to generate a threat assessment and execute a situationally appropriate counter-measure. As part of the exclusive partnership D13 will secure patent rights to integrate *MESMER*™ with all other sensor technologies, including:

- Radar
- Radio Frequency
- Acoustics
- Electro-Optical / Infrared

Combining D13's *MESMER*™ with this multi-sensor C-UAS technology creates an industry-leading solution for mitigating the global threat of commercial drones, with multi-sensor capability now viewed as an integral feature of a holistic C-UAS solution. Federally Funded Research and Development Centre Sandia National Laboratories, (a science and technology contractor for the US department of Energy) highlighted this as a core-competency for C-UAS technologies in their *UAS Detection, Classification & Neutralization Market Survey*.[1]

The report found that *"multiple detection technologies must be integrated or fused into a single detection / classification architecture to ensure higher probability of detection."* This technology provides D13 with the exclusive right to deliver this capability by substantially improving detection and identification. The technology subsequently delivers an improved ability to make critical decisions on which mitigation technology is most relevant to a given threat. For instance, choosing to safely control a drone with protocol manipulation or alternatively use jamming or kinetic technologies.

While the initial focus will be to quickly build out the capability within *MESMER*™, D13 and XiDrone will also aim to work collaboratively with other parties within the C-UAS industry to implement the technology. Counter-drone manufacturers and suppliers will benefit from this Partnership by offering their customers a complete and more

[1]https://prod.sandia.gov/techlib-noauth/access-control.cgi/2015/156365.pdf

comprehensive counter-drone solution which now includes a precision, non-jamming, mitigation response.

XiDrone will receive a small upfront licensing fee for the exclusive licensing of the patents (tabled below) and ongoing royalties payable on product sales and sub-licensing revenues.

Department 13 CEO, Jonathan Hunter, commented *"D13 and XiDrone Systems can now leverage our respective pool of operational expertise to identify mutual growth opportunities within the military, commercial and private sectors and this marks an important step in D13's broader strategy of progressing into a business that leverages its competitive advantage in IP and cutting-edge software development."*

XiDrone Systems President, Dwaine Parker, commented *"We couldn't be more excited about this partnership. We methodically researched which companies within the counter-drone industry were making the biggest impact with their technology. Department 13's complete IP portfolio is a natural fit with our technology, enabling both companies the means necessary to provide effective solutions for the counter-drone industry as well as the FAA's UTM project."*

XiDrone Systems Patent Portfolio:

Application Number	Patent/Publication No.	Country	Filing Date	Title of Patent
14/821,907	9,689,976	US	August 10, 2015	DETERENT FOR UNMANNED AERIAL SYSTEMS
15/368,269	9,715,009	US	December 2, 2016	DETERENT FOR UNMANNED AERIAL SYSTEMS
15/598,112	9,977,117	US	May 17, 2017	SYSTEMS AND METHODS FOR DETECTING, TRACKING AND IDENTIFYING SMALL UNMANNED SYSTEMS SUCH AS DRONES
15/627,229	Pub. No 20170285142	US	June 17, 2017	
15/967,291	Unpublished	US	APRIL 30, 2018	DETERENT FOR UNMANNED AERIAL SYSTEMS
62/094154	(expired)	US		
Prov. Pending				
	WO/2016/122739 (Superseded)	PCT	September 11, 2015	DETERENT FOR UNMANNED AERIAL SYSTEMS
	EP3234633A2	EPO	October 25, 2017	DETERENT FOR UNMANNED AERIAL SYSTEMS

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About XiDrone Systems

XiDrone Systems Inc. is a Florida based corporation specializing in developing U.S. and Foreign intellectual property relating to C-UAS detection, integration, counter-measures and data technologies. Their technology focuses on a cost-effective, off-the-shelf, drone detection platform utilizing radar, RF, EO/IR and other sensors to support military and commercial specifications, including, integration of drones into any National Airspace System (NAS). XiDrone Systems Inc. filed for their first patent in December 2014. They currently have three issued U.S. patents and three additional pending patents within the U.S. and Europe. Their patented technology is greatly benefiting the commercial drone industry and governments globally. For more information about XiDrone Systems, please visit www.xidronesystems.com

About Department 13

Based in Maryland, Department 13 (D13) was founded in 2010 by a team of former military operators, scientists and engineers who apply proprietary innovative advanced technology to emerging requirements. D13 is developing cutting-edge software and communication systems that have the potential to transform the networking and communication fields as well as current applications in drone defense, mobile phone IT security and secure enhanced Android phone systems. D13 is engaged with multiple counter UAS projects to provide strategic solutions for civil, military and commercial security requirements. D13 has a substantial intellectual property portfolio covering wireless protocol manipulation and communication networking software with applications in drone defense, local area and wide area cellular communications and networking, enhanced data bandwidth for all digital communications, cyber security for mobile devices and sophisticated RF technology applications (radiometric). For more information about D13, please visit www.department13.com or follow us on Twitter (@D13ASX), LinkedIn and YouTube.