

# THE WORLD'S FIRST MARINISED CUAS SYSTEM



**DETECT**  
Within 5km



**IDENTIFY**  
Exact GPS  
location



**TRACK**  
Multiple drones



**DEFEAT**  
360x180 degrees  
coverage

# THE THREAT FROM ABOVE

Are you waking up to the growing threat that drones pose to the privacy, safety and security on-board your yachts? Recent years have seen a massive advance in drone endurance, range and payload capacity whilst the price has also plummeted, leading to a proliferation of drones expected to reach 22 million by 2020.



Paparazzi intrusion using drones approaching superyachts is already a recognised and growing problem. Yachts in port, at anchor or on coastal transits are simply 'sitting ducks' and currently powerless to know if/when they're going to be attacked, let alone be in a position to defend against the threat. Terrorist use of drones deploying explosives and poison gas attacks are well documented and the potential for a drone to deliver an explosive charge, or even payloads such as nerve-gas on-board a superyacht is a stark reality. To put the emerging threat into perspective, the USA proposed a \$1 billion counter drone budget for 2019!

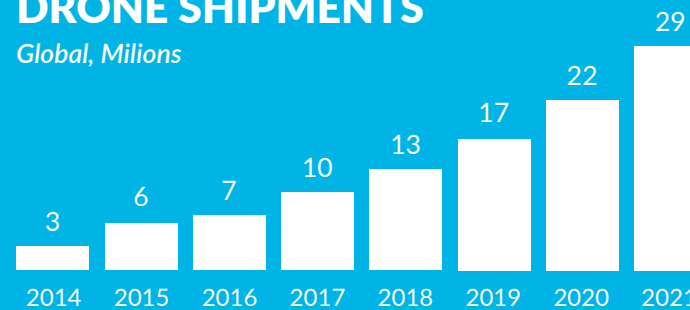
## THE THREATS



- Invasion of Privacy
- Zoom Lens Video Surveillance
- Covert Listening Technology
- Airborne Attack
- Remote Aerial Hacking

## ESTIMATED CONSUMER DRONE SHIPMENTS

Global, Millions



Source: BI Intelligence Estimates, 2016



## ADVANCE YOUR SECURITY MEASURES TODAY

To combat the emerging threat, Martek Counter UAS have developed M.A.D.S™, Marinised Anti-Drone System. M.A.D.S™ is the world's first modular system designed specifically for a marine setting, detecting and identifying drones within a 5km range, providing GPS positioning of both drone and pilot (optional configuration) together with the drone's speed and heading. Configurable and escalating stage alarms in real time allow the threat level to be assessed in good time to decide on appropriate defence actions.

Once a real drone threat has been established, you can use the defeat device at a range based on a 1 to 1 ratio (Pilot to Point of Interest) at 360x180 degrees. An exclusion zone will be created around the vessel that will make the drone return to pilot.



**WORLD'S FIRST  
CERTIFIED MARINE  
DESIGN**



**DETECT, IDENTIFY,  
TRACK AND DEFEAT  
IN ONE SOLUTION**



**UNIQUE  
DEFEAT  
TECHNOLOGY**



**UPGRADABLE  
WITH MODULAR  
OPTIONS**



*This product is capable of being put to various uses and in certain jurisdictions certain of those uses and/or application may be limited by law. It shall be the responsibility of the purchaser to satisfy his or herself as to the applicable laws in their country or residence and/or the country where the product is intended to be operated. The manufacturer takes no responsibility for any unlawful use. Any advertising or similar is generic in nature and is intended to highlight the diverse use to which the product might be deployed. It is not intended to offer any guidance or view on whether such use is lawful within the jurisdiction in which such advertising takes place.*

## TECHNICAL SPECIFICATIONS

FIXED SYSTEM	DETECTION*	DEFEAT	
		OPTION 1	OPTION 2
Range	5km line of sight, 360 x 180 degrees coverage**	Range: 1 to 1 ratio (Pilot to POI) at 360x180 degrees	Range: > 1 to 1 ratio (Pilot to POI) 360x180 degrees
Operating Principle	Software controlled radio, digital signal protocol demodulation	Modular antenna demodulation	Three High Power RF Jamming directional
Frequency Band	Frequency hopping - 2.4Ghz, 5.8Ghz	2.4 Ghz and 5.8 Ghz	1.5Ghz (Optional), 2.4Ghz, 5.8Ghz
Frequency Protocol	Omnidirectional and directional	Mitigation 2.4 Ghz, 5.8 Ghz and WiFi	Jamming 2.4Ghz, 5.8Ghz, WiFi
Deployment	Continuous	Manual	Manual
User Interface	LAN based/ Screen stand alone or on exsiting interface	Non-selectable manual 1 push 30 sec push and hold	Non-selectable manual 1 push 30 sec push and hold
Power Supply	100-240V AC, 70W	24-28V DC, 70W	28VDC, 1.5Ah
Temperature Range	-20C to +55C	-20C to +55C	-20C - +55C
Ingress Protection	IP66	IP66	IP66
Weight	30kg	27kg	<20kg
Dimensions	70cm x 75cm diameter radome	70cm x 75cm diameter radome	50cm x 54cm or 43cm x 44cm diameter radome

\*Specifications only apply in stationary mode.

\*\*Up to 5km line of sight, sea states, radome positioning and ship surroundings can impact range effectiveness. Subject to adjustments and software updates.



Pending





# CONTACT US FOR MORE INFORMATION

Telephone: +44 (0) 3301 117 177

Email: [info@martekcuas.com](mailto:info@martekcuas.com)

 Martek Counter UAS

 @MartekCUAS

 @MartekCUAS

 @MartekCounterUAS

[www.martekcuas.com](http://www.martekcuas.com)

