

ELETTRONICA@IDEX 2021 – Drone Threat? Tell ADRIAN!

Elettronica (stand 06-B15) showcases the company's ADRIAN counter drone system at this year's IDEX exhibition.

The Middle East is no stranger to the threat posed by drones in the wrong hands. These aircraft are cheap to buy and easy to fly. Yet they can be used for a range of illegal activities. A drone's camera can photograph or film a sensitive site. They can deliver contraband behind prison walls and, in the worst case, be used as flying bombs for a terrorist attack.

Protecting potential targets such as an airport or an important international meeting with VIPs against drones can be difficult. The aircraft are small and hard to detect. It may not be possible to use live ammunition to engage the drone particularly if it is flying in an urban area.

Help is at hand from Elettronica's ADRIAN (Anti-Drone Interception Acquisition Neutralisation) counter-drone system. ADRIAN is one of the most advanced and cost-effective counter-drone systems available. It takes care of drone detection and interception using a single system which can be deployed at a fixed site or mounted on a vehicle.

ADRIAN uses a combination of radar, optronics, acoustic sensors and an Electronic Support Measure (ESM) to detect the drone visually, via its radar signature and the noise of its engines and by using the drone's radio transmissions. ADRIAN fuses this information, determines the drone type and its location and presents this information to the operator. Using four different sensors to find the drone means that the aircraft can still be detected if one or more of the sensors is having difficulty; for example, if tall buildings block the radar or optronics line-of-sight or if a loud environment makes it hard to hear the drone's engines. This combination of sensors ensures a low false alarm rate.

With the drone detected, ADRIAN intercepts the radio signals the drone uses to communicate with its pilot and the satellite signals it needs for navigation. ADRIAN uses an electronic countermeasure to jam these links forcing the drone to land safely or return to its starting point. An added benefit is that ADRIAN can discern the drone pilot's location which is useful for police and law enforcement. ADRIAN can record missions for later analysis and debriefing. It is easy to use, ITAR-free and competitively priced. If you have a drone problem, call ADRIAN!

Elettronica has been at the forefront of the Electronic Warfare sector for almost 70 years, supplying over 3000 high-tech systems to the armed forces and governments of 30 countries. The Elettronica systems are designed for a variety of key operational missions, from strategic surveillance, self-protection, Sigint, electronic defence and operational support for air, naval and land applications. The company boasts a strong list of successful national and international collaborations on all major modern military platforms like the Tornado fighter, the Eurofighter Typhoon, the NFH-90 helicopter, the Italian PPA platform, the Italian and French ships Horizon and FREMM, and a wide range of projects in various countries worldwide. A company part of **Gruppo Elettronica** that also includes CY4GATE, specialising in Cyber EW, Cybersecurity, and Intelligence, and Elettronica GmbH, a German subsidiary specialising in the design of Homeland Security systems.

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