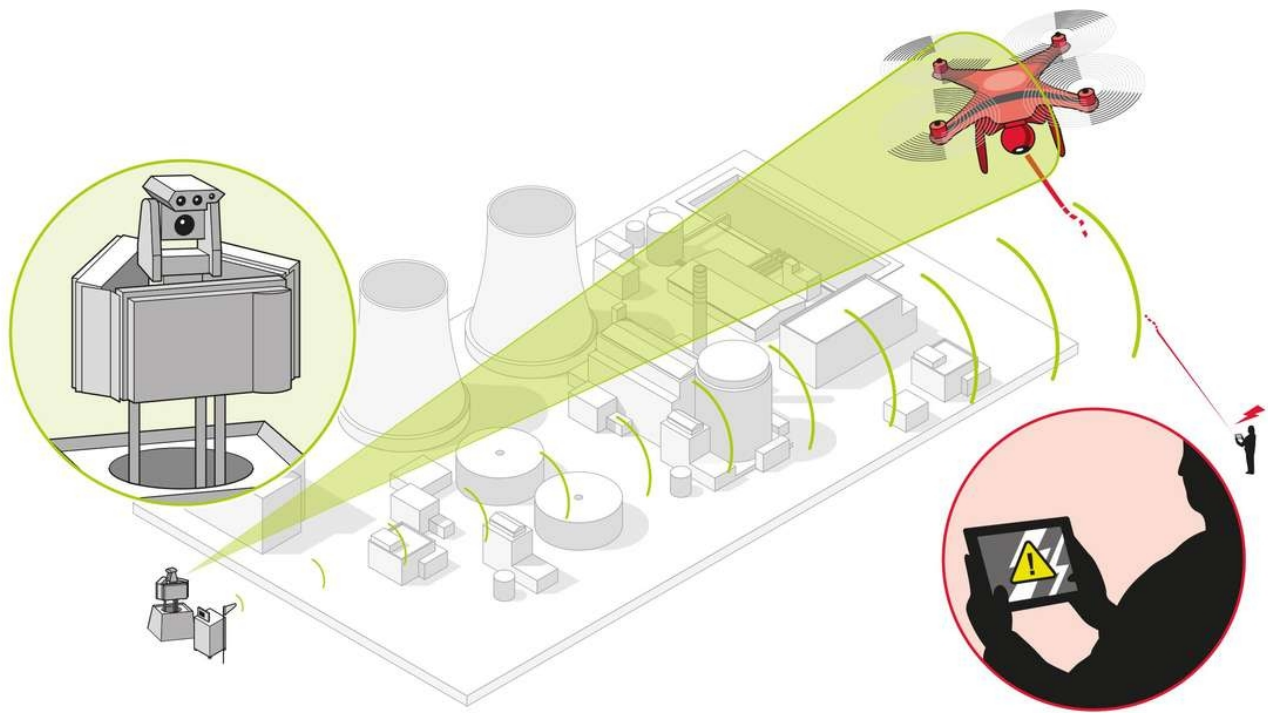




AIRBUS INTRODUCES A SYSTEM TO JAM DRONES OUT OF THE SKY

News / Manufacturer



For every cheap flying robot, there is an elaborate, expensive system to counter it. The latest anti-drone tool comes from European aerospace and defense giant Airbus, and promises a high-tech solution to small flying robots. They're showing off the system at the Consumer Electronics Exposition in Las Vegas, though no word yet on if they've caused any nearby drones to crash.

From Airbus:

The system offers very high effectiveness by combining sensor data from different sources with latest data fusion, signal analysis and jamming technologies. It uses operational radars, infrared cameras and direction finders from Airbus Defence and Space's portfolio to identify the drone and assess its threat potential at ranges between 3.1 and 6.2 miles (5 and 10 kilometers).

Based on an extensive threat library and real-time analysis of control signals, a jammer interrupts the link between drone and pilot and/or its navigation. Furthermore, the direction finder tracks the position of the pilot who subsequently can be dealt with by law enforcement. Due to the Smart Responsive Jamming Technology developed by Airbus Defence and Space, the jamming signals are blocking only the relevant frequencies used to operate the drone while other frequencies in the

vicinity remain operational. Since the jamming technology contains versatile receiving and transmitting capabilities, more sophisticated measures like remote control classification and GPS spoofing can be utilized as well. This allows effective and specific jamming and, therefore, a takeover of the UAV.

The Airbus system appears similar to one by Italy's Selex ES, which also tracks drones and then seeks to jam them. For defense companies that already make tracking and jamming technology, bundling them together as an anti-drone tool seems a smart business move. It's hardly the only way to stop drones, though.

Boeing and others are developing anti-drone lasers, to just destroy the flying machines. Bullets work too, if you're a marine sniper with great aim or you have a bunch of machine guns and aren't worried about where the bullets fall. The Battelle DroneDefender combines these approaches, as a rifle-attachment that guards can point at a drone to jam it and send it crashing down. Alternatively, guards could look to South Korea and Tokyo, where they're testing or, in the latter case, deploying net-carrying drones to catch the tiny robots.

The low cost and flying ability of drones make them an attractive threat to design against, even if the real risks from drones are mostly hypothetical. So far, more planes have hit turtles than drones in the United States, and we haven't seen an equal rise in anti-turtle countermeasures.

08 JANUARY 2016

SOURCE: POPSCI

ARTICLE LINK:

<https://ut.50skyshades.com/news/manufacturer/airbus-introduces-a-system-to-jam-drones-out-of-the-sky>