



PATENT
PENDING

DroneDefender®

Directed-Energy UAS Countermeasure

Introducing DroneDefender V2

The new, improved 2nd generation counter-UAS device incorporates field feedback and human factors engineering for a fully integrated and portable design.



CHALLENGE:

While once owned solely by the military, small Unmanned Aircraft Systems (UAS), or drones, are now widely available. With increased availability comes increased risk, especially to government and defense personnel and assets.

Yet, traditional defense mechanisms against UAS, such as shooting them down, are not tenable within the U.S. under current regulations. And the proliferation of drones overseas demands an effective and easy to deploy solution. So how can agencies of the federal government defend against drones and their associated threats and protect what matters most?

SOLUTION:

Battelle's DroneDefender counter-UAS device, utilizing a non-kinetic solution, defends airspace at ranges of 0->400m against UAS, such as quadcopters and hexacopters, without compromising safety or risking collateral damage.

This innovative device provides instantaneous disruption of unwanted UAS using two different defenses.

Remote control disruption:

- Multifrequency disruption to block remote control communication and neutralize drones

GPS disruption:

- Satellite signal disruption to disable use of automated navigation

KEY BENEFITS:

- Immediate response
- Low-cost technology
- Man-in-the-loop
- Point directional
- Lightweight
- Minimal training required
- Custom rugged design

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Immediate response against immediate threats

Successfully tested against commercial drone targets, the DroneDefender device provided a consistent response up to 400+ meters. The remote control and GPS disruption responses are both fast acting, resulting in instant threat mitigation.

- Demonstrated range: 400+ meters
- Cold start time: <0.1 seconds
- Operating time: Up to 2 continuous hours
- Weight: 15 lbs
- Directionality: 30° cone

Innovative, cost-effective technology

The custom, ergonomic design houses proven technology to neutralize the threat posed by unidentified UAS quickly and safely.

- Multiple antennas
- Disruption electronics
- Picatinny rail mounted sight
- Battery powered

Ease of use

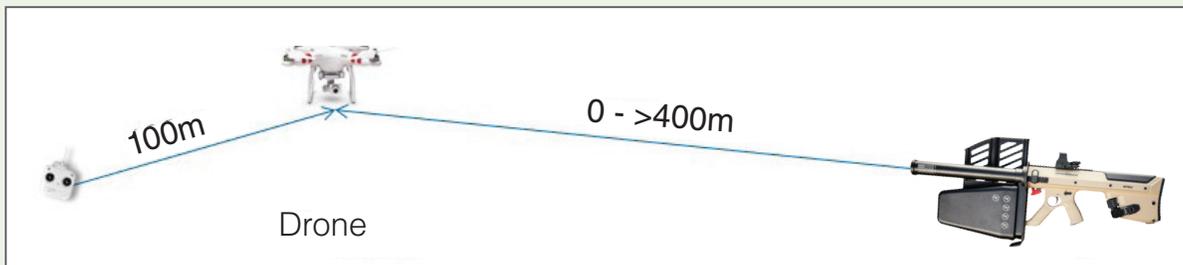
The fully-intergrated easy-to-use, lightweight, point-and-shoot device requires no extensive training.

The DroneDefender device quickly disrupts the adversary's control of the drone, neutralizing it so no remote action, including detonation, can occur, minimizing risk to public safety and damage to the drone.

PROTECTING OUR ASSETS

Protecting what matters most is Battelle's priority, whether on land, or in the air. Unidentified UAS can pose a serious risk to government agencies and officials, both military and civilians, but Battelle has the solution.

The DroneDefender device couples innovative technology with efficient design for safe, reliable airspace protection against drone intrusion.



Effective range of 400+ meters, with the adversary at 100 meters.

Note: This device has not been authorized as required by the rules of the Federal Communications Commission before it can be marketed to non-Federal users. This device is not, and may not be, offered for sale or lease, or sold or leased in the United States, other than to the United States government and its agencies, until authorization is obtained. Under current law, the DroneDefender device may be used in the United States only by authorized employees of the Federal government and its agencies, and use by others may be illegal.

Every day, the people of Battelle apply science and technology to solving what matters most. At major technology centers and national laboratories around the world, Battelle conducts research and development, designs and manufactures products, and delivers critical services for government and commercial customers. Headquartered in Columbus, Ohio since its founding in 1929, Battelle serves the national security, health and life sciences, and energy and environmental industries. For more information, visit www.battelle.org.

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