

DETECT & DEFEND DRONES



We defend your airspace



MINIMAL





IDENTIFY & CLASSIFY

Software-centric solution recognizes and classifies malicious drones



LOCATE DRONES & PILOTS

Localization technology pinpoints drones and their pilots



NEUTRALIZE THREATS

Deploys countermeasures to protect your organization or neutralize the drone

The rapid proliferation of micro/mini UAVs is a growing potential threat to national and commercial security.

Easy to make, cheap to buy, simple to fly, and hard to detect, commercially available drones are one of the most quickly evolving technological threats to military and civilian interests.

Presently Commercial drones has raised a privacy concerns among the people since most of the drones flies equipped with high quality cameras which can invade people privacy, taking photo of people and personal property.

Also drones can be used to smuggle drugs, crash into buildings, act as peeping Toms, drop bombs, shoot guns, and gather personal data on anyone whom drone pilot want to harm.

Hence a Jammer to block drones remote control signal to protect our privacy and personal space is required.

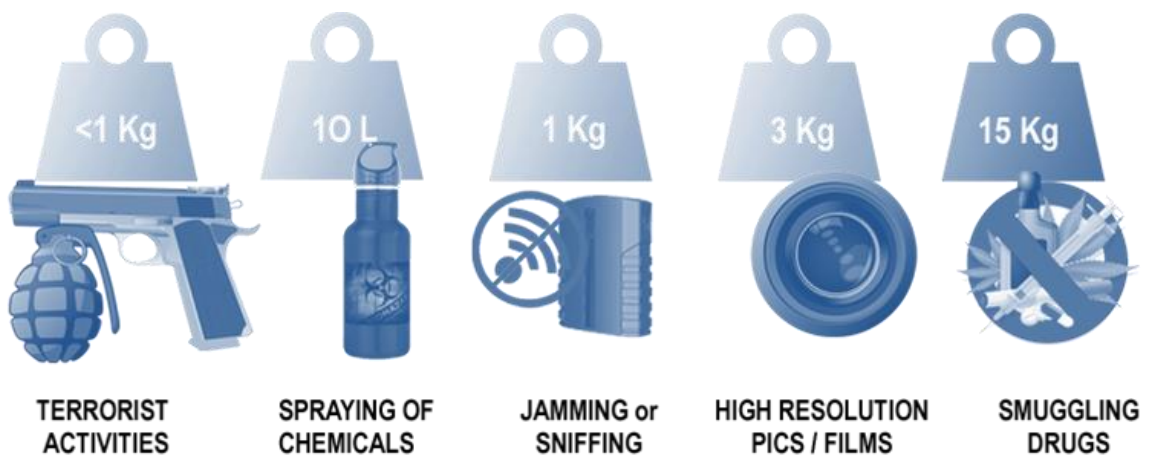
Defend your airspace

Many DEFEND DRONES manufacturer ensure us that they have the correct system that can defend a drone.

But the questions is how you will be able to defend a drone equipped with camera, GPS system and maybe other devices if you are not able to detect this first?

Which security guard or fence or alarm or any other technology can defend a small, micro or nano technology drone that will easily violate your area or your property from any open path with main scope to damage your reputation, your business, your LIFE?

A \$500 DRONE DISRUPT A \$400,000,000,000 SECURITY MARKET



Defend your airspace

Dear Sirs,

We, International Armour Co, a NATO registered Company (NCAGE G2181) / UN registered Supplier (UNGM 400640) of Defence & Security products and a Security Services Provider, are proud to present you our Anti-Drones Technologies for the surveillance and protection of airports, borders, security sensitive infrastructure, Principals' privacy, high value premises / assets etc.:

After careful examination of:

- our Principals' needs and as regards the anti-drone protection (for anti-espionage, anti-cyber/hacking, anti-provocative and anti-terrorism reasons),
- the various existing systems in the market, integrating various technologies and
- the related prices of the same,

we decided to propose specific subsystem(s) integrations, either in a minimal, cost effective and tailored to their needs (no need for drone or controller localization, but need no drone to approach our clients' valuable premises and/or assets) system, or in a more intellectual and complete approach drone(s) detection / neutralization and drone controller localization for detention purposes and as follows:

MINIMAL SOLUTION - PRIVATE USE ORIENTED

- We do not need to know the exact position of the drone(s) and/or drone(s) operator
- We want to defend a narrow area (i.e. up to 300-400 m from A to B)
- We do not want any drone to approach our valuable premises / assets :

1. One (1) portable device DZDF-3A4D for general directional passive drone detection and early warning.

Combined with

2. One (1) portable device DZDG1.0-ODNF1 of multi-power omnidirectional RF jammer that will be automatically turned-on upon drone detection within our security perimeter.

We want to defend a narrow area (i.e. up to 300-400 m from our valuable premises / assets) at an urban and close space environment.

AND

3. Life time DZDG1.0-MC1 software / interface for RF detector and Jammer integration. (The future software updates including current drones RF data base will be free of charge).

All the above will be covered with installation / demonstration / usage training services by our side at our clients' spot(s) that will be defined in due course.

The above solution may be applicable for our clients' management company premises up to more than 2000 sq. meters, their warehouses, villas and / or ships and super-yachts.

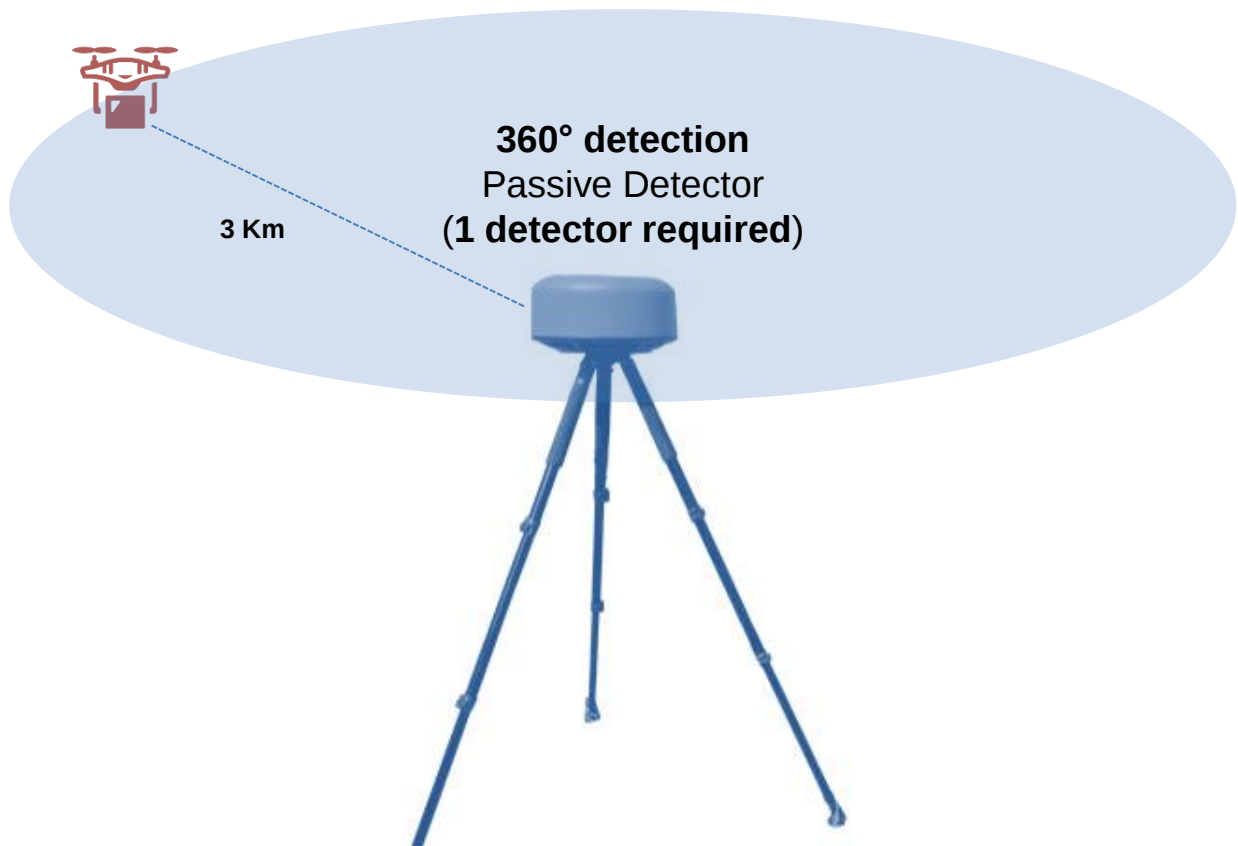
Sincerely

Dimitris Chalampalis
Defense Advisor

Minimal Drone Detection & Neutralization System

Defend your airspace

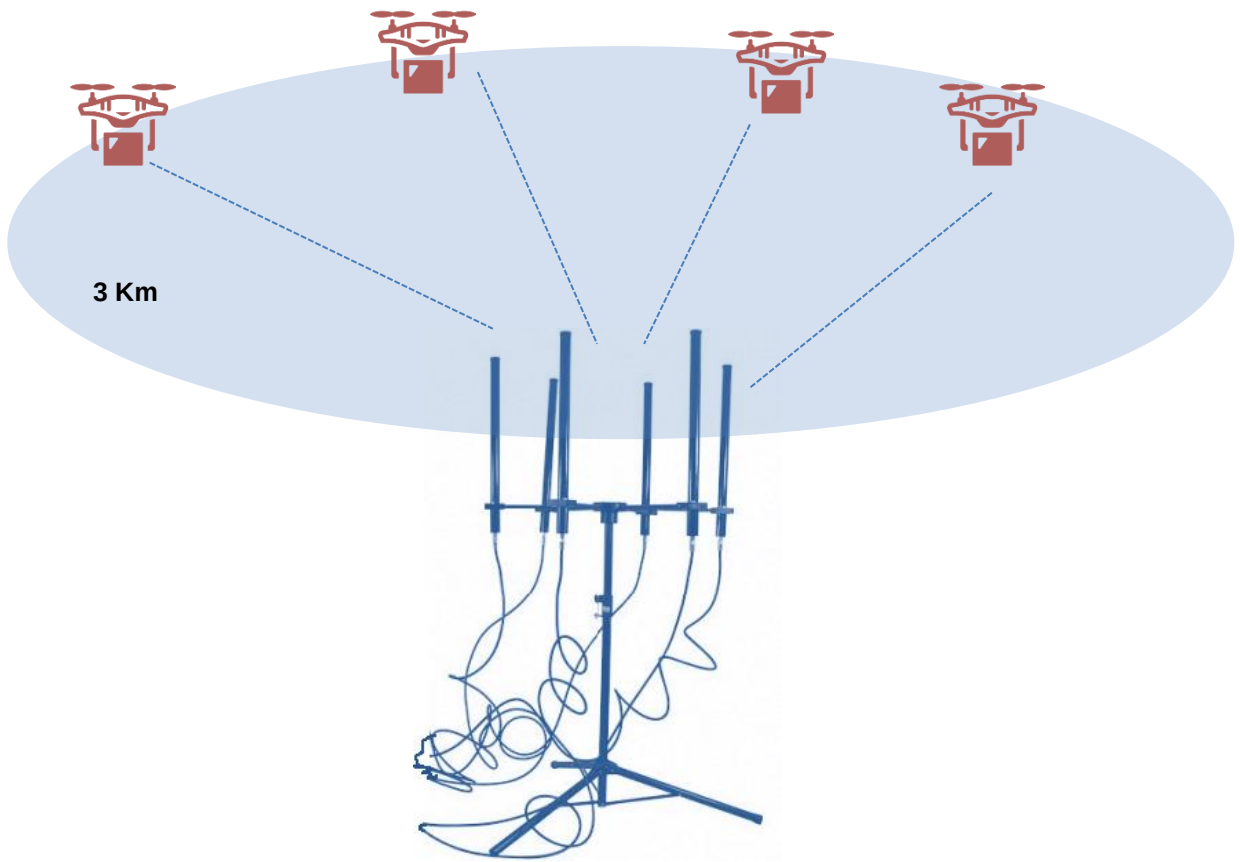
UAV RF Passive Detection Subsystem



- Monitoring frequency range: 840-940MHz
2400-2500MHz
5725-5850MHz
- Signal style: UAV measurement and control signals, IEEE 802.11a, b, n, g, digital transmission, remote control signals;
- Detection distance: $\geq 3\text{km}$;
- Detecting airspace: azimuth 360° full airspace;
- Measure accuracy: better than $\pm 3^\circ$ (RMS);
- Single station ranging accuracy: better than 20%R;
- Multi-station positioning accuracy: better than 5%R (baseline distance is greater than 1km);
- Detecting the number of drones simultaneously: greater than 40
- First interception time: $\leq 3\text{s}$
- Power Supply: 28V/DC or 220V/AC
- Power Consumption: $\leq 100\text{W}$
- Waterproof
- Interface requirement: Ethernet & Power interface
- Working temperature: $-20^\circ\text{C} \sim +70^\circ\text{C}$
- Working Environment: Rain-proof; Dust Prevention; Sand-prevention; Moisture-proof, Mould-proof and Salt-proof
- Weight: $\leq 8.8\text{kg}$
- Dimension: 450x450x250mm

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Omni-Directional RF Jamming System



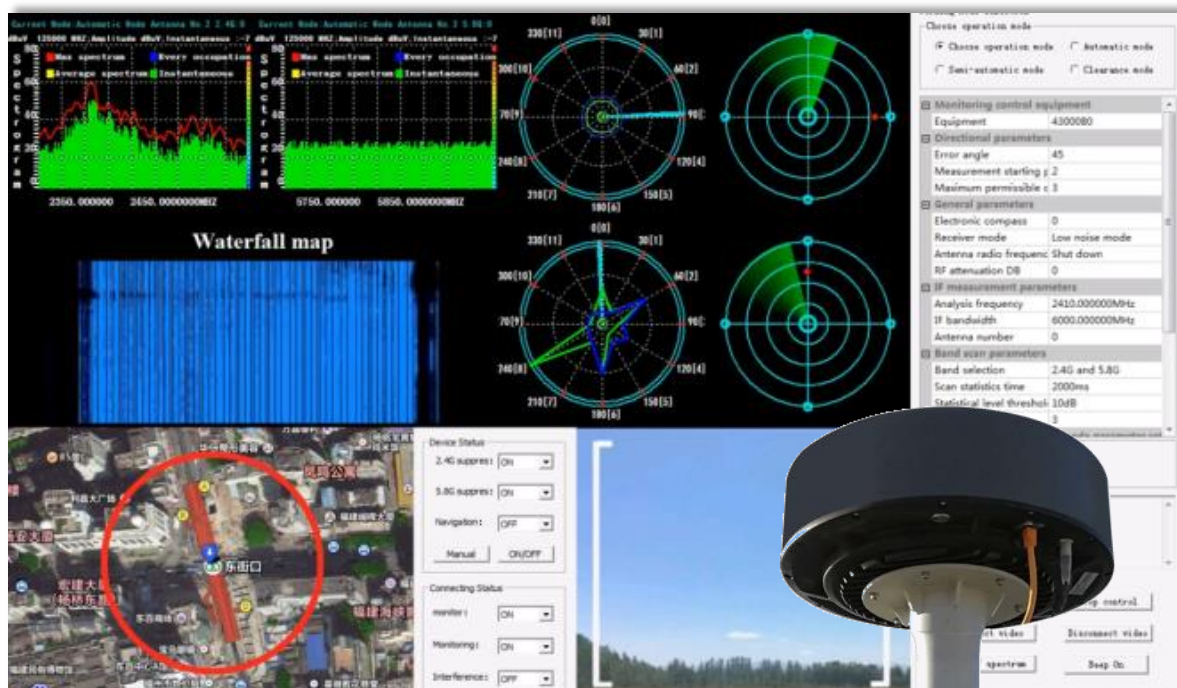
Frequency: 2400 - 2500 MHz; (Standard)
 5725 - 5850MHz; (Standard)
 1550 - 1620 MHz (GNSS / Standard)
 860 - 930 MHz; (Standard)

Optional Frequency: 5150-5350MHz; 315MHz; 433MHz

Jamming Range (Customized for Clients) Standard Jamming Range
 Remote Control Signal 1-3km
 GNSS Signal: 3-5km;

- Polarization: Vertical
- Antenna Gain: 3dB
- Output Power: Min 20 Watts/channel; GNSS: Min 10 Watts
- Reaction Time: 1s-3s (Depends on the distance of UAVs)
- Waterproof
- Interface requirement: Ethernet & Power interface
- Working temperature: -20 °C ~ +60 °C
- Working Environment: Rain-proof; Dust Prevention; Sand-prevention; Moisture-proof, Mould-proof and Salt-proof

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System include

Software DZDG1.0-MC1 for RF detector and Jammer integration with Lifetime software update

One (1) portable device DZDF-3A4D for general directional passive drone detection:

One (1) portable device DZDG1.0-ODNF1 of high power omnidirectional RF jammer





ALARMING NEWS

INCIDENTS

Emirates calls for tougher action on drones after airport closures



October 2016: Dubai International Airport was closed for 80 minutes because of unauthorized drone activity’.

DUBAI: Drone detectors and heavy fines for people who fly the devices into flight paths are being called for by Emirates airline.

Thousands of passengers have faced delays and millions of dirhams were lost this year after drones caused the closure of Dubai International Airport on several occasions.

Emirates has called for authorities to take stronger action to discourage future incidents in and around Dubai airspace.

Network disruptions cost millions each time as airlines are forced to divert flights or hold aircraft until security checks have been completed.

Drones have forced the airspace around Dubai International to close on three separate occasions since June, with one half-hour closure in September causing delays to 85 departing Emirates flights.

[READ THE ARTICLE](#)

Shropshire drone accident fear is raised by RAF office



It is only a matter of time before a drone causes a major accident involving an aircraft over Shropshire, an RAF safety officer has warned.

It comes after six reports of drones causing a potential risk to aircraft associated with RAF Shawbury this year, including in places such as Telford and Nesscliffe. The legal maximum flying height for drones is 400 feet, but they have been spotted in Shropshire flying at 2,000 and 1,500 feet. Squadron Leader Gary James, Station Flight Safety Officer (SFSO) at RAF Shawbury, said he is not against the ideas of drones, but stressed the need to use them safely.

They are getting cheaper and cheaper and more people are having them so the risk has increased. You can get them from eBay, Amazon and Jessops really easy. It is only a matter of time before something happens. Last year it was more hearsay, but this year we have had actual sightings from our helicopters. There has been one flying at 2,000 feet over Telford, which is illegal and stupid. One of the problems is that the law is difficult to enforce as its hard catching people in the act. But police have been given guidance.

[READ THE ARTICLE](#)

Dramatic increase in drone sightings from pilots, says ILF



September 2016: Pilots reported 39 drone sightings from their planes in the first five months of 2016, a dramatic increase on last year, according to new figures. The ILF Environment and Transport Inspectorate said 31 of these drones – flown for fun by members of the public – were spotted at airports and 24 at Schiphol. Of the 39 reports, 35 were drones and four were model aircraft.

In the whole of 2015, just 15 drones were reported and there are concerns about safety and collisions with planes, which fly so fast that the impact of any small crash would be greater.

The increasing numbers spotted are, reports NOS, probably due to technically more advanced drones. Anybody can buy and fly these, but it is not permitted to fly an unmanned craft on or near an airport.

[READ THE ARTICLE](#)

Queenstown drone forces plane to divert



August 2016: An incident where a plane in Queenstown had to change course to avoid hitting a drone was extremely dangerous, the Civil Aviation Authority says.

An Air New Zealand flight coming into Queenstown Airport yesterday afternoon, with 150 passengers on board, had to divert after the unmanned aerial vehicle (UAV) was spotted by the control tower.

Drones are not allowed to be flown within 4km of airports. It was the second incident of its kind in New Zealand, after a near miss between a drone and a plane leaving Christchurch a year ago.

Civil Aviation Authority spokeswoman Philippa Lagan said the incident was risky.

"We take it really seriously, and we do hope that the police can find the person responsible and lay the maximum charge possible, because these UAVs pose significant safety threats to planes that are either taking off or landing."

The authority was leaving it to the police to find the pilot of the drone, Ms Lagan said.

[READ THE ARTICLE](#)

And many – many other



Can the rapid expansion of drones technology
turn a funny game to a real threat?

- Derry Ryanair flight in near miss with drone
- UK police probe drone near-miss with commercial flight
- FAA investigating drone spotted near Logan Airport
- Drone closes busy Dubai International Airport for an hour
- Plane has close call with drone while landing in Winnipeg
- Drone Flying Over Airport Delays 55 Flights In Southwest China
- Drone flew 30 metres from airliner at Manchester airport
- Drones in near-misses with planes almost once a week
- Drone Comes Within 200 Feet of Airliner Near LA Airport
- Number of Near Misses Involving Drones Quadruples in 1Year

WE KEEP YOUR AIRSPACE SAFE

Joining Forces against illegal Drones

Airbus DS Electronics and Border Security is collaborating in order to defend against small drones

Munich / San Francisco / CA - 27 July 2016 - Airbus DS Electronics and Border Security (EBS) and De-Drone, San Francisco, have concluded a cooperation agreement to combine their skills to protect lower airspace from small drones. The partners intend to jointly offer drones defense systems that can reliably detect and defend against the unauthorized entry of drones in critical airspaces.



