

IN PARTNERSHIP WITH

Expert In Innovative Security
& Safety Solutions



ROBOOST SECURITY
DEFENSE
HEALTH

Subsidiary of Byblos Group Dedicated to Robotics
Systems (Scientific and Technical Expertise)



Acoustic Detection Sub
System Developed By
Experts In Acoustic And Data
Treatment.



CNRS & Toulon University
Research Laboratory on
acoustic and data fusion



Optronic Detection Sub
System Based On The
Latest Drone And Video
Surveillance Technologies



Radio Direction Finder
Detection Sub System
And Radio Goniometry
Neutralisation



Radio Goniometry Detection
Sub System of wifi and hybrid
wifi/RF drones and Jamming
& Decoy of protocol for
Neutralization



CSI & HMI Conception



Operators Dedicated To Sub Sensors Qualification Tests
And Calibration (UAVs Signatures Data Base) & SPID System
Operational Evaluation



Foundation Dedicated To
Strategic Legal & Societal
Researches



Marketing, Sales
Development & Valorisation



Marketing, Sales
Development & Valorisation

END USERS



SNCF (French National Railway Company)



Airports of Lyon



GIGN (National Gendarmerie
Intervention Group)



National Gendarmerie



Air Gendarmerie

SUPPORTED BY



ANR (The French National Research Agency)



SGDSN (Secretariat-General for National Defense and Security)

**"UAVs delivering contraband into prisons are creating headaches for corrections
officials who acknowledge that they have few, if any, ways of stopping them"**
Michael S.Schmidt, NY Times 2015

MORE THAN 1 MILLION DRONES ALREADY SOLD BY PAROTT - OVER 300 000 UNITS EXPECTED IN 2015



- GOVERNMENT RESIDENCES
- AIRPORTS, PORTS & RAILWAYS
- MILITARY INFRASTRUCTURES
- PRISONS
- CRITICAL INFRASTRUCTURES (INDUSTRIAL,
NUCLEAR, OIL & GAS ETC.)
- PUBLIC & PRIVATE EVENTS
- SPORT INFRASTRUCTURES
- ESPIONAGE
- PRIVACY

SYSTÈME DE PROTECTION INTÉGRÉ ANTI-DRONE ANTI-DRONE DEFENSE INTEGRATED SYSTEM

**"If we don't act now, it's only a matter of time before we have
a tragedy on our hands"**
Senator Dianne Feinstein (US Congress/CA)



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A SUBSIDIARY OF



EXPERT IN INNOVATIVE
SECURITY AND SAFETY

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MISSION

DETECTION

SPID uses a new type of compact & weatherproof acoustic, optronic, radio direction finder sensors (radar optional) surveillance to detect small and medium sized drones up to 5 km.

CLASSIFICATION

The optical, radio frequency and acoustic signatures analysis classifying the type of malicious drone according to:

- Type (fixed or rotary wings)
- Category (micro, mini or tactical drone)

IDENTIFICATION

When a drone is detected; the long-range optronic and its video tracker capabilities— (daylight/night) slews to the position of the drone and follows its trajectory, allowing close inspection & identification.

INTELLIGENCE

The multi-sensors & C3i hosts smart processing data and last generation data fusion capability in order to provide to the operators secured relevant and reliable information.

CONTROL/COMMAND/COMMUNICATE

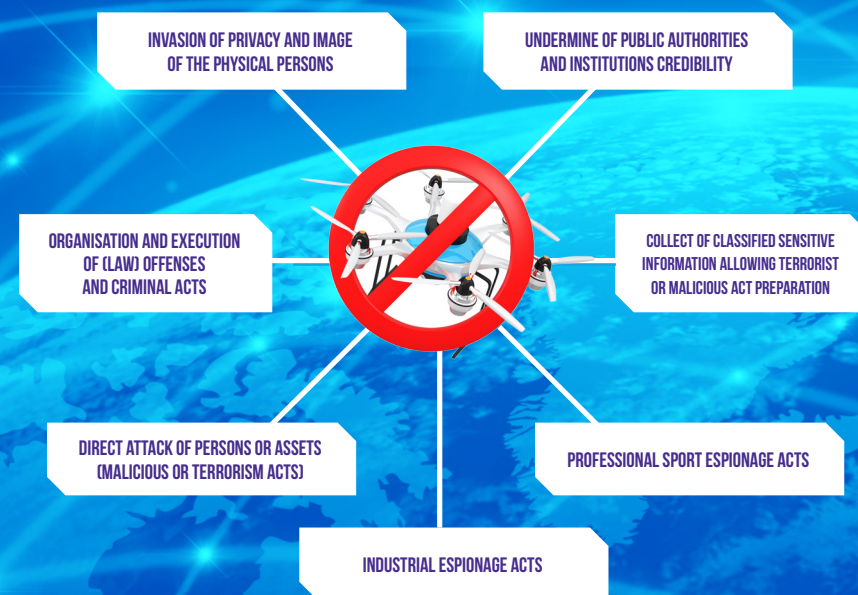
Alerts are delivered instantly (real time) through secured C3i system and can also be coupled to or integrated into any existing security system.

NEUTRALIZATION

The video & radiogoniometry tracking (radar optional) follow the UAV through its flight path and to its landing position, reporting GPS coordinates which enables officials to go directly to the location where the pilot can be found and neutralized and to take the control of the offending UAV.

BENEFITS

- Day/night capability (24/7)
- All environments capability
- Optimized for small and very small civil drones (<25 kgs)
- Automatic & autonomous turnkey solution
- Fixed or mobile configurations
- Cost efficient solution: low operational and maintenance cost
- Customizable to specific applications & threats
- A safe solution fitted to public & urban areas
- Secured & real time C3i
- Easy to install and easy to use system
- Future ready:
 - Radar detection & jamming sub system
 - C4i2 evolution capability



"It is not a matter of if it will happen. It is a matter of when it will happen."
Captain Chesley Sullenberger (2009 Hudson River Hero - US Airways 155 saved persons aboard).

MORE THAN 300 000 DRONES ON THE FRENCH TERRITORY

DRONE DETECTION AND NEUTRALIZATION SYSTEM BASED ON INTEGRATED PROVEN TECHNOLOGIES



CYBERIO

Acoustic Detection Sub System

An acoustic fence network is deployed around the area that must be protected. The innovative technology is based on:

- Specific designed sensors and architecture
- Processing & fusion data algorithm

This sub system is a key determinant in order to ensure permanent long range 360°surveillance.

www.cyberio-dsi.com



INPIXAL

Optronic Detection Sub System

The optronic system ensuring a 360° vision is made through a triangulation concept.

- Automatic detection assisted by video-surveillance algorithm (including discrimination criteria by size and speed)
- Localisation successfully achieved by triangulation
- Continuous reconnaissance and identification with bispectral PTZ sensor (with automatic 2 axis turret)
- Low visibility conditions ready

www.inpixon.com/fr



ROHDE & SCHWARZ

Radio Direction Finder Detection & Neutralization Sub System

The sub system from R&S® allows to cover surveillance, detection and analysis (geo-localisation, classification and identification) and the neutralization of the offending drone. The solution is based on the state of the art technologies of radio surveillance and radio localisation from R&S® in the frequencies range from 20 MHz to 6 GHz. The system is composed of:

- Direction Finder (DFF) & antennas system
- Analysis & Spectral Detection of the spectral waves unit

TRUSTCOMS

The sub system from TrustComs is similar to the R&S one but for wifi and hybrid RF/wifi drones. Both systems detect and neutralize the drone intruder. It also provides complete information about the pilot location and the drone.

www.trustcoms.com
www.rohde-schwarz.fr



CEDARNET

C3i - Command, Control & Communications

The C3i ensures connectivity between the multi-sensors deployed on the field and the central server and HMI.

- Encrypted independent data fusion & transmission
- Dynamic configuration solution
- Ergonomic HMI Supervision
- EPS.net is a messenger oriented middleware optimised for M2M multi-platforms
- Future ready: C4I2 evolutive capability on request

www.cedarnet.fr

"Nobody knows who's behind these flyovers"

French Magistrate interview 2014

203 ILLEGAL FLIGHTS SIGNALLED IN 2014, ONLY 13 SOLVED BY FRENCH JUSTICE 678 INCIDENTS REPORTED BY THE F.A.A.