
ITOPP
ALCEN

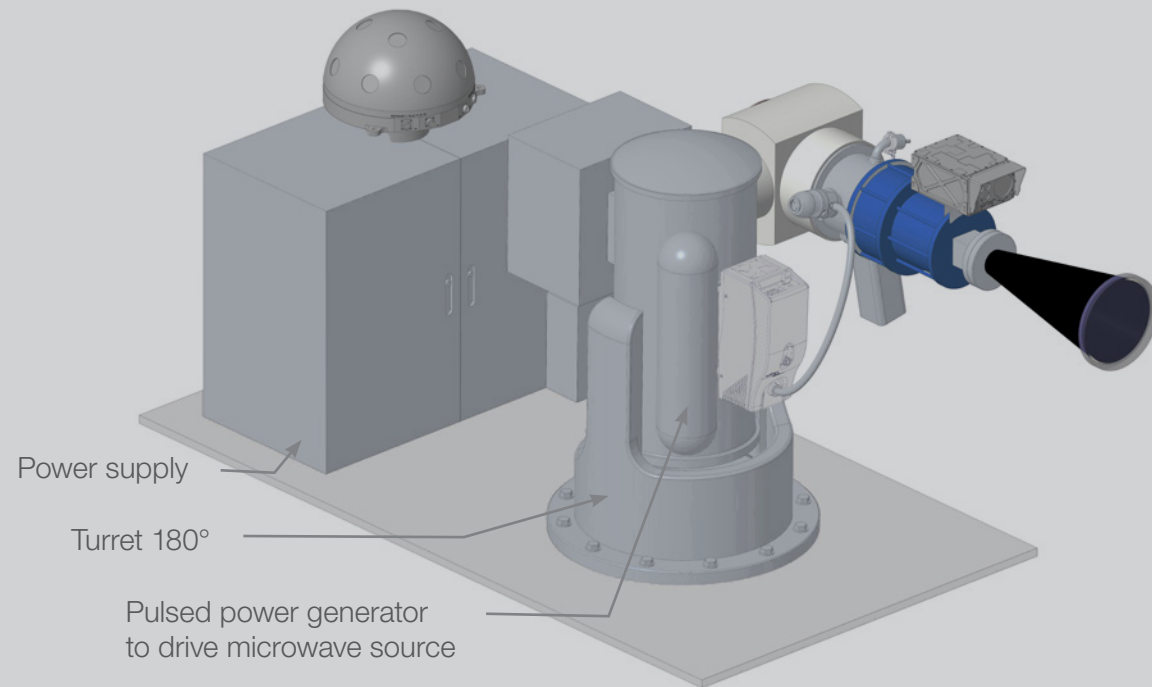
Directed Energy Weapon

For the Neutralization of Autonomous
Drones and Drone Swarms



from **spark** to **lightning**

Complete and integrable solution on different platforms



Dimensions on the floor: 3,344 x 1,927 mm

Multiple integration possibilities

Containers | Military Vehicles | Boats | Drones | Strategic Plants | Missiles | Laboratory

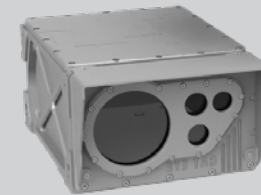


Optronic System to Detect and Track

HEMISPACER – LERITY

Detect and track drones

- Detect drones in real time
- Operational range of about 1,000 m for a 30 x 30 cm drone
- Multi-threat automatic detection & tracking



Camera to Identify and Classify

CAT EYE – LERITY

Identify and classify drones in real time, day and night

- Operational range of about 800 m for a 30 x 30 cm drone
- Inform user of the threat



High Power Microwave Device to Neutralize

X-band microwave radiation system – ITOPP

Neutralize drones

- Fire on user command
- Piloted or autonomous drones
- Single or swarm of drones

CAPACITIES OF THE DEVICE

Scalable, mobile and autonomous system

- Integration and communication with an external C4ISR
- Installation on various platforms (truck, boat, etc.)
- Use with batteries and a generator for greater autonomy

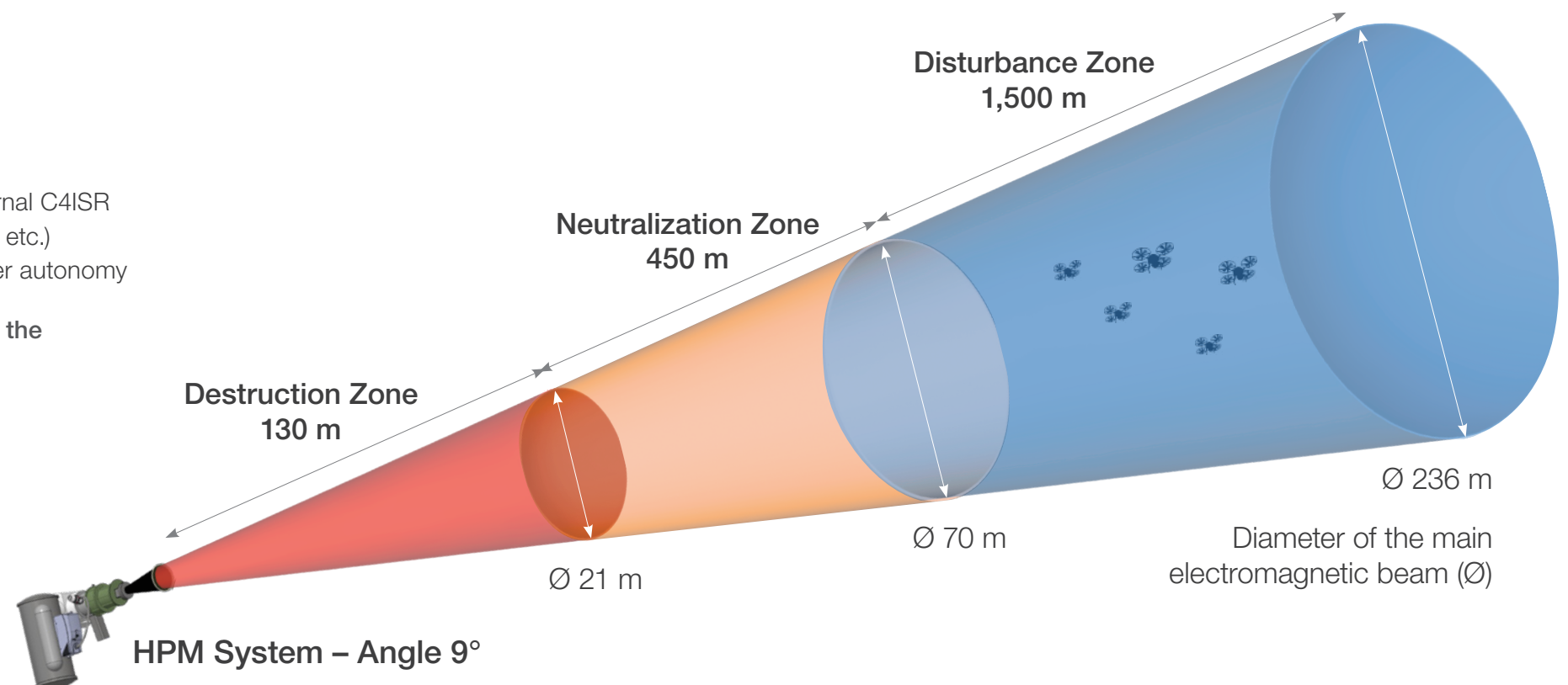
ITOPP can adapt the equipment according to the constraints of operations

Quick and easy to use

Range of effects

Diameter of the main electromagnetic beam:

- 16 m at 100 m (52.49 ft at 328 ft)
- 21 m at 130 m (68 ft at 426 ft)
- 70 m at 450 m (229 ft at 1,476 ft)
- 236 m at 1,500 m (774 ft at 4,921 ft)





With more than 25 years of expertise, ITOPP has become the French leader in pulsed power and high-power microwave technologies. On the basis of customer



specifications, ITOPP designs and manufactures highly innovative systems adapted to scientific research and also to civilian and military applications.

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