



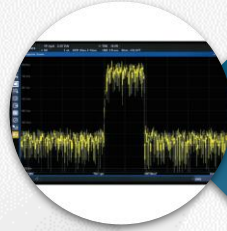
ILTER J2500

**DRONE DETECTION AND
NEUTRALIZATION SYSTEM**





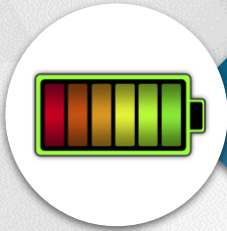
SYSTEM COMPONENTS



Detection
RF Detection System



Jamming
GNSS
Spoofing



Power
Mains
Battery



TECHNICAL FEATURES

| | |
|--------------------------|--|
| Antenna Type | Directional |
| Mode of Operation | Automatic or manual |
| Remote Upgrade | It has remote update capability with its user-friendly interface |
| Installation | Less than 5 minutes with single operator. |
| Operational | IP66 certified, operating temperature between -32 °C and +55 °C. |
| Power | Mains 220 VAC |
| Battery | 32 V LiFePO4 |



RF DETECTION FEATURES

- Detects UAVs with RF spectrum.
- Detects wireless communication between the drone and its remote control in the UHF, S and C frequency bands
- RF output power typical 250 W
- Detects drone attacks in the specified direction.
- Detects up to 180° horizontally and up to 60° vertically.



JAMMING & SPOOFING FEATURES

- Jams drone attacks in the specified direction.
- Jamming distance ratio at least 1:2, typical 1:5
- Spoofing in global positioning GNSS frequency bands in order to jam autonomous flights.

| | |
|-------------------|--|
| Type / Capability | Phased Array Pulse Doppler RADAR / Surveillance and Tracking |
|-------------------|--|

| Detection Range | | | | |
|--------------------|------------------|---------------------|----------------------|------------------------|
| Micro UAS | Fixed Wing UAV | Mini UAS | Small UAS | Vehicle |
| 5,5 km RCS 0,01 m2 | 10 km RCS 0,1 m2 | 10 km on RCS 0,5 m2 | 15-20 km on RCS 1 m2 | 15-20 km on RCS ≥ 2 m2 |



RADAR FEATURES

| Coverage | | | |
|------------------------------|------------|----------------------------------|-----------|
| Azimuth | | Elevation | |
| 360° | | -2 to 51° | |
| Accuracy | | | |
| Range | Azimuth | Elevation | Velocity |
| ≤ 15 m (RMS) | ≤ 1° (RMS) | ≤ 1° (RMS) | ≤ 0,8 m/s |
| Resolution | | | |
| Range | Azimuth | Elevation | |
| 15 m | ≤ 2° (RMS) | ≤ 2° (RMS) | |
| Probability of Detection | | 80% (in low tracking speed) | |
| Track Capacity | | 300 tracks | |
| Update Rate | | 2 Sec (30 RPM) / 4 Sec (15 RPM) | |
| Antenna Technology | | Slotted Waveguide Antenna | |
| Peak Power | | ≤ 300 watt | |
| Operating Frequency | | X Band | |
| Type of Beam / Rotation Rate | | Multiple Pencil Beams / 1-30 Rpm | |