ILTER J350

DRONE DETECTION AND NEUTRALIZATION SYSTEM

BOĞAZİÇİ SAVUNMA

İLTER J350

SYSTEM COMPONENTS
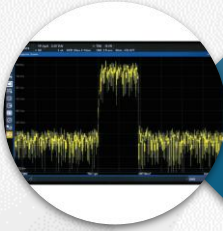
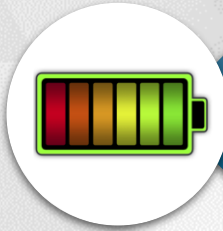### Detection
RF Detection System
DF System
Protocol Based Detection System

Jamming
Telemetry
Video
GNSS
Spoofing

Power
Power Grid
Battery

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1. Up to 30 threats, protocol based detection technology

2. RF and DF detection system between 400-6000 MHz on 12 channels

3. Omni-directional Jamming and Spoofing between 400-6000 MHz on 12 channels

4. Directional jamming and spoofing system between 400-6000 MHz on 11 channels.

5. Jamming capability with extra 2 frequencies with 150 MHz bandwidth between 400-8000 MHz

6. Electronic and power unit of the system

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TECHNICAL FEATURES

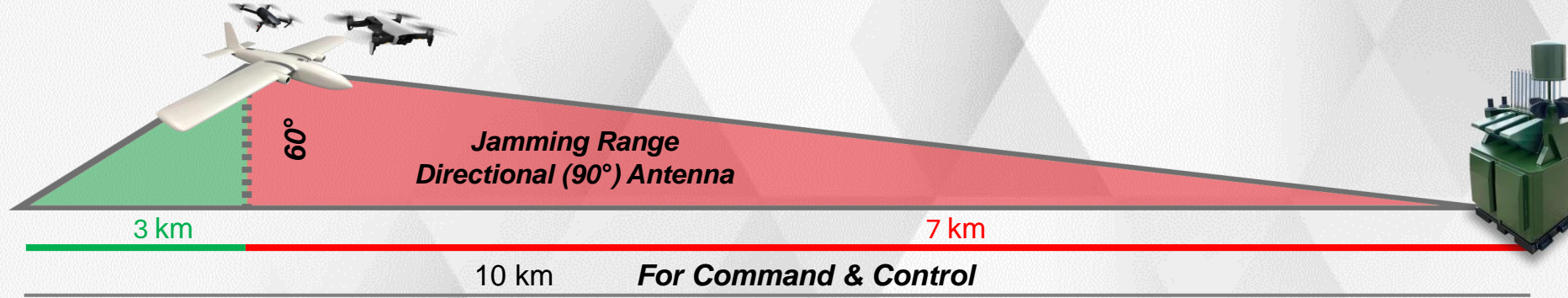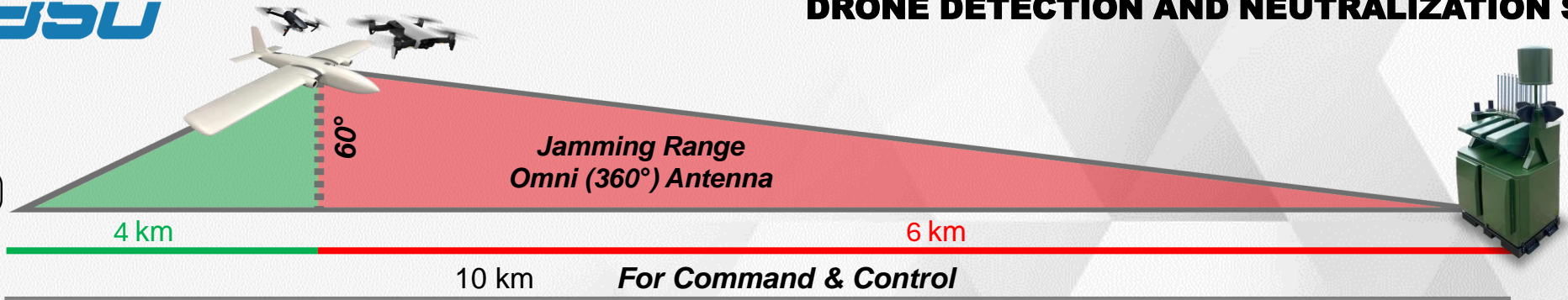| System	Integrated single or multi mode of operation
Mode of Operation	Automatic or manual
Command Control Systems & Sensors	Central command and control ability to all sub
Remote Upgrade	The system can be upgraded remotely.
Installation	Less than 5 minutes with single operator.
Operational	Runs 7/24 uninterrupted at all weather conditions.
Power 1	Mains 220 VAC
Power 2	Battery (240 Ah)
Optional Power	10 kVa Generator
Weight	±10 560 kg

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RF & DF DETECTION FEATURES

Antenna Technology	Directional
Operating Frequency	12 channels between 400 - 6000 MHz
Command and Control Signals	Up to 5 km and with 90° sensivity DF
Digital Video Signals	Up to 2 km and with 90° sensivity DF
Analog Video Signals	Up to 10 km and with 90° sensivity DF
Detection Algorithm	Correlation, comparision with database

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JAMMING & SPOOFING FEATURES

Jammer Controller	Fully digital control
Jammer Frequency	12 channels between 400 - 8000 MHz
Profile	Single or multi channel jamming simultaneously
Emergency	All channels start to jamming with a single button
Antenna Technology	Directional or Omni Directional (selectable via user interface)
Beam Angle	Directional (Elevation: 60° Azimuth: 90°) Omni Directional (Elevation: 0-60° Azimuth: 360°)
RF Output Power	Adjustable up to 750 watt
Spoofing	Generate a fake location at any user-specified coordinate

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Remote Control

60°

Jamming Range
Omni (360°) Antenna

4 km

6 km

10 km   For Command & Control

Remote Control

60°

Jamming Range
Directional (90°) Antenna

3 km

7 km

10 km   For Command & Control

Multi GNSS: 10 km - **Universal Recevier:** 20 km

Omni (360°) Antenna GNSS Jamming Range

Multi GNSS: Up to 15 km - **Universal Recevier:** Up to 30 km

Directional (90°) Antenna GNSS Jamming Range

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**CRPC
KEY FEATURES**

- Protocol based detection technology
- Passive RF detection
- Distinguishing friend and foe according to drone ID
- Detection of remote control and drone location info and positioning on the map
- Drone information tracking, displaying past track records
- Extendible library with AI
- Polygon definition on the map (Critical area)
- ADS-B Feature

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CRPC DETECTION FEATURES

Detection Frequencies	Protocol-based detection in 7 channels between 400 - 6000 MHz range
Detection Range	Up to 5 km
DF Sensivity	5°
Real Time Detection Number	Up to 30
Detection Coverage	360°
Antenna Type	Omni-Directional

Up to 10 km Detection Region on radius

Only alarm is on when the UAV enters the blue zone in automatic mode

The UAV is jammed when it enters the red zone in automatic mode

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Type / Capability	Phased Array Pulse Doppler RADAR / Surveillance and Tracking
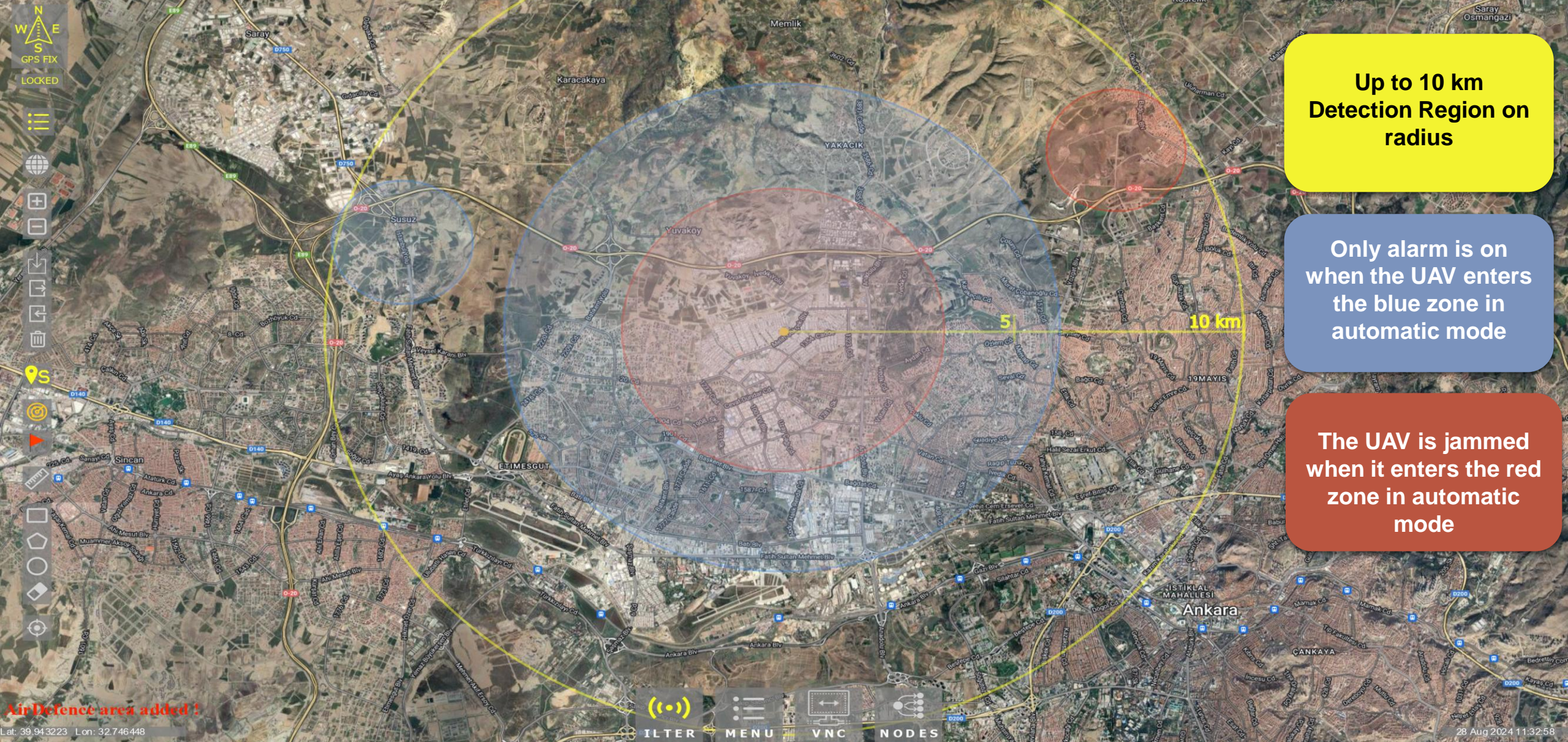
Detection Range

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

- **User-friendly interface and touch screen**
- **User authorization**
- **Wireless connection between command and control center and ILTER**
- **User-friendly GUI operation**
- **Detailed log records**
- **Centralized command and control capability of multiple ILTER systems**
- **Update with remote connection**