

İLTER

AIRSPACE IS UNDER OUR CONTROL



WITH
1,100+ İLTER SYSTEMS
IN THE FIELD



24/7
OPERATIONAL USE
FOR OVER
2,000 DAYS



SECURE AIRSPACE
ON **3** CONTINENTS



RAPID DEPLOYMENT



AI-POWERED



DETECTION, IDENTIFICATION



LONG RANGE



24/7 CONTINUOUS
OPERATION

Strategic Foundation of National Security



Modern Threat Environment

We provide highly sensitive autonomous detection and tracking capability against rapidly evolving threats on the modern battlefield.



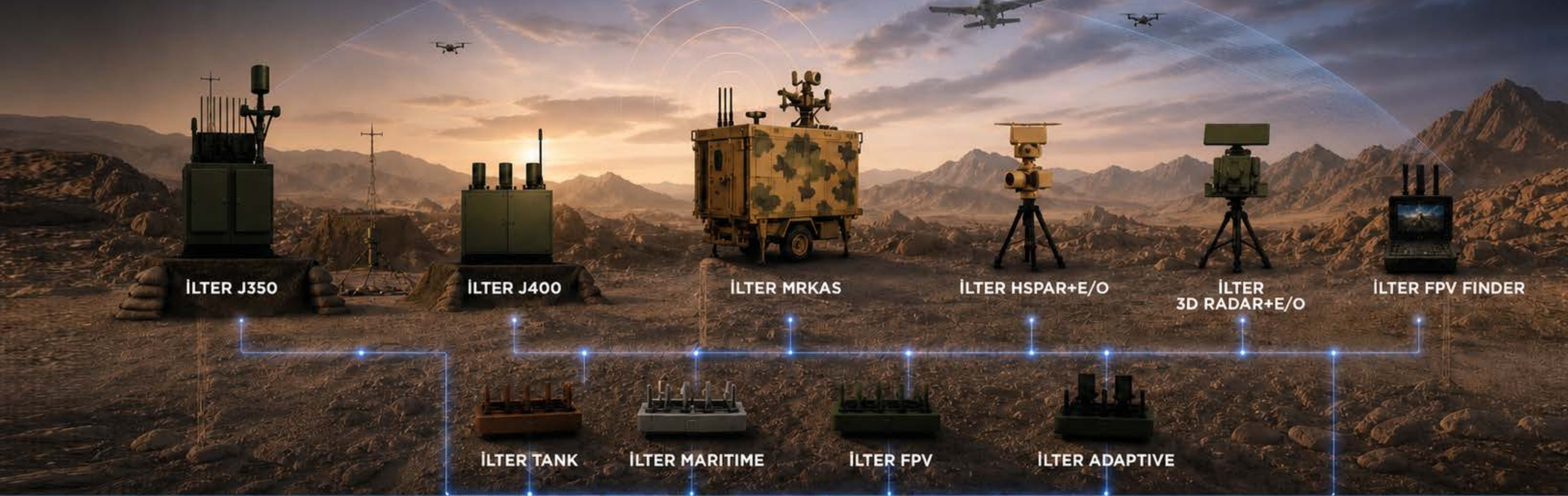
Indigenous and National Vision

ILTER has been developed with fully indigenous engineering infrastructure, advanced R&D capability, and an integrated defense architecture.



Operational Security

ILTER provides reliable air defense across a wide range of operational areas, from critical facilities to border security.



İLTER J350

İLTER J400

İLTER MRKAS

İLTER HSPAR+E/O

İLTER 3D RADAR+E/O

İLTER FPV FINDER

İLTER TANK

İLTER MARITIME

İLTER FPV

İLTER ADAPTIVE

COMMAND AND CONTROL CENTER

- İLTER J350
- İLTER J400
- İLTER MRKAS
- İLTER HSPAR E/O
- İLTER 3D RADAR E/O
- İLTER FPV FINDER
- İLTER TANK
- İLTER MARITIME
- İLTER FPV
- İLTER ADAPTIVE



Integrated İLTER HSPAR E/O Architecture



Detection System

- İLTER HSPAR E/O (Electro-Optical)
- RF Detection and Direction Finding
- Protocol Based Detection



Jamming System

- Full-Band Continuous Jamming
- Reactive Jamming Capability



Command and Control

- With advanced WAN mode architecture, multiple systems deployed at different locations can be monitored, managed, and coordinated simultaneously through a single central interface.





Core Radar Technology

Frequency	Ku-Band
Scanning Method	Digital Beamforming (DBF) and phased-array elevation scanning
Beam Gain	≤ 34 dBi (Transmitter)
Output Power	≤ 480 W
Protection Level	IP66

Performance and Precision

Accuracy	Azimuth $\leq 1^\circ$, Range $\leq 10-20$ m (RMS)
Capability	Micro-Doppler signature-based classification up to 3 km, AI-assisted target classification up to 30 km.
Deployment Time	≤ 10 minutes
Operating Temperature	$-40^\circ\text{C} / +70^\circ\text{C}$
Protection Level	IP66

Physical Characteristics (Radar and Servo)

Radar Weight	~ 110 kg (Dimensions: 800 x 390 x 238 mm)
Rotation Speed	Maximum 30 rpm ($180^\circ/\text{s}$)
Durability	Operating temperature $-40^\circ\text{C} / +55^\circ\text{C}$, damage resistance up to 118 km/h wind (Beaufort 12)

İLTER

İLTER HSPAR DETECTION RANGES



VERY SMALL
TARGETS



6-8 km

RCS Value (m²): 0.01 - 0.05
Detection Range: 6 - 8 km

SMALL
TARGETS



8-10 km

RCS Value (m²): 0.05 - 0.1
Detection Range: 8 - 10 km

MEDIUM
TARGETS



10-20 km

RCS Value (m²): 0.1 - 0.5
Detection Range: 10 - 20 km

LARGE
TARGETS



20-30 km

RCS Value (m²): 0.5 - 1.0
Detection Range: 20 - 30 km



Detection ranges may vary by $\pm 10\%$ depending on weather conditions.

XR: Electro-Optical Detection System



DAY VISION CAMERA

Sensor	1/1.8" 4 MP CMOS
Resolution	2688 × 1520
Optics	6-360 mm optical zoom (60× zoom)
Field of View	59,2° × 34,82° → 1,9° × 1,1°
Dynamic Range	WDR-supported dynamic range



THERMAL CAMERA

Detector	T2SL (3.7-4.8 μm)
Resolution	640 × 512 (15 μm pixel pitch)
Sensitivity	NETD ≤20 mK @ F4.0 -25°C - F#1.0
Optics	15-330 mm optical zoom (22× zoom)
Field of View	35,5° × 28,7° → 1,75° × 1,39°
Aperture	F0.85 - F1.2
IFOV	0,99 - 0,047 mrad



LASER RANGEFINDER and GNSS










Laser Wavelength	1535 ± 5 nm
Effective Range	20 km
Positioning	Centimeter-level GNSS positioning
Direction Accuracy	0,3°





AI-assisted analysis includes border intrusion, area intrusion, and early warning (fire/smoke) detection capabilities.

AI-Assisted Optical Classification Matrix

		 Drone	 UAV	 Vehicle	 Human
 DETECTION		3 - 5 km	6 - 8 km	25 - 30 km	6 - 8 km
 TRACKING		3 - 5 km	6 - 8 km	25 - 30 km	6 - 8 km
 CLASSIFICATION		4 km	7 km	25 km	7 km
 IDENTIFICATION		3 km	6 km	10 km	0.5 km

ILTER J400 RF and DF Systems



CRPC DETECTION (PROTOCOL-BASED)

	Frequency Range	400 - 6000 MHz
	Detection Range	10 km and less
	Algorithm	Comparison with correlation database
	Capacity	Real-time detection capability for up to 300 targets



RF DETECTION AND DF (DIRECTION FINDING)

	Detection Range	Detects control signals up to 20 km and video signals up to 10 km
	Frequency Range	100 - 8000 MHz
	Direction Accuracy	5° accuracy
	Coverage	360° continuous coverage (Omni-directional antenna)



ILTER J400 Reactive Jamming System

20 MHz - 6100 MHz



Adjustable
Continuous Full - Band Jamming

6100 - 8000 MHz



Adjustable
additional 6 channels

8000 - 18000 MHz



Optional
additional channel



EMERGENCY MODE

One-touch jamming across the 20 MHz - 8000 MHz range



CONFIGURABLE ARCHITECTURE

20 MHz - 6100 MHz | 6100 - 8000 MHz
8000 - 18000 MHz



ACTIVE SHIELD

Neutralizes hostile communication, command, and surveillance systems



MULTI-THREAT DETECTION

Drone, UAV, Vehicle and Human



DETECT

Continuously scan and detect threats



ANALYZE

Analyze frequency, protocol, and behavior



JAM

Apply threat-specific reactive jamming only



PROTECT

Effectively protect yourself and friendly elements



FREQUENCY COVERAGE

Flexible mission configuration across the 20 MHz - 18 GHz range



REACTIVE JAMMING

Applies focused intervention only on frequencies where threats are observed



PROTECTION CAPABILITY

Effectively protects itself and friendly elements



TARGET THREATS

Effective against mini UAVs, FPV drones, commercial drones, and fixed communication systems

1. DETECTION

İLTER HSPAR & RF



- Detects targets within a radius range of 200 m to 30 km in single mode.
- With its integrated RF sensor architecture, it provides high-sensitivity frequency detection and protocol-based signal analysis within a 10 km radius coverage area.

*HSPAR: Hybrid Scan Phased-Array Radar

2. IDENTIFICATION

İLTER XR



- The system locks onto the target using GNSS and coordinate data (with a pan speed of 0.01 - 100°/s).
- Using AI, it autonomously classifies Drone / UAV / Vehicle and Bird targets.

*XR: Extended Reality

3. JAMMING

İLTER J400



- Provides adjustable jamming capability across the 20 MHz - 8000 MHz range according to user requirements.

*İLTER J400: Next-Generation Reactive Jamming System




We read the future, and produce better.

Boğaziçi Savunma Teknolojileri San. ve Tic. A.Ş.

 Teknopark Ankara TGB Campus
İvedik OSB Mah. 2224. Cad. No: 1/47 F Blok
Yenimahalle / ANKARA

 T: +90 (312) 920 00 70

 F: +90 (312) 920 00 69

 info@bogazicisavunma.com

 www.bogazicisavunma.com

