



# A-techSYN

UNMANNED AERIAL SYSTEMS

## CGT50

### UNMANNED AERIAL SYSTEM



UAS for Military  
& Civil Services





6+ hours endurance



60 kg max T/O weight



50 + km C2 range



5 kg payload capacity



18000 feet ceiling



SATCOM optional

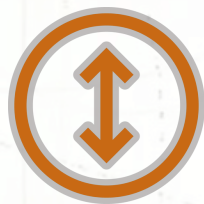


Low operational cost

Wing Span:	4.75 m
Lenght:	3.05 m
Cruise Speed:	45 Knots
Maximum Speed:	70 Knots
Max Take-off Altitude:	6000 feet
Cruise Wind Resistance:	38 Knots/hr
VTOL Wind Resistance:	20 Knots/hr
Location Accuracy:	< GPS Accuracy
Video Data-link Range:	>100 km
Set-up Time:	45 minute
Hover Time:	3 minute



## FEATURES &amp; TECHNOLOGIES



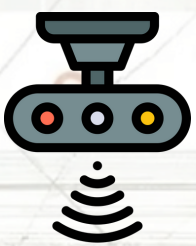
Fully Autonomous  
VTOL Capability

**AUTO  
PILOT**

Fully Autonomous  
Flight Capability



ADS-B In/Out  
Transponder



Payload  
Variety



Low Radar Cross  
Section-RCS

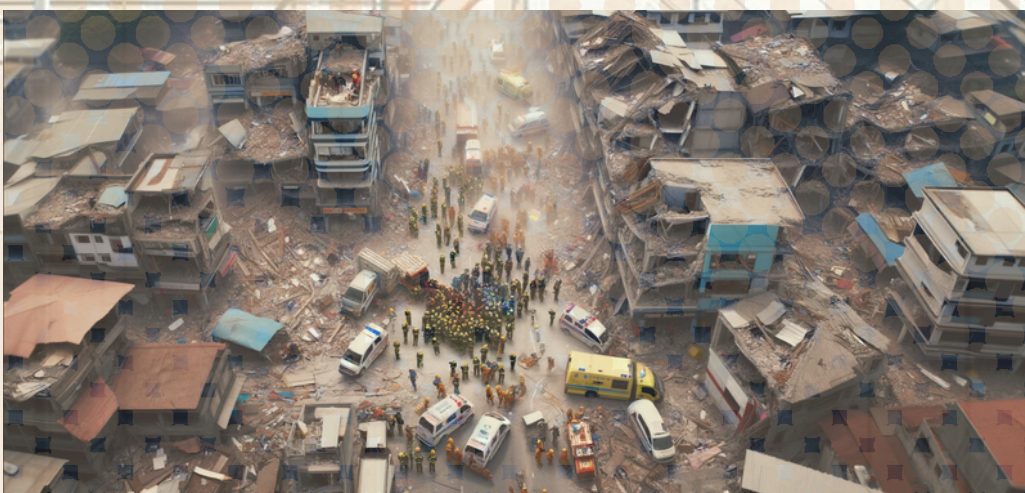


Anti-Jamming  
Optionals



## Defense and Homeland Security Service

- **ISTAR (Intelligence, Surveillance, Target Acquisition and Reconnaissance)**
- **Airborne Security of Strategic Compounds,**
- **Infrastructure and Moving Convoys**
- **Shoreline, Borderline and Maritime ISR**
- **Counter Insurgency Applications**
- **Crime Control and Law Enforcement**
- **Crowd Monitoring**
- **Disaster Management**
- **Forest and Wildlife**
- **Conservation**
- **Traffic Monitoring**
- **CBRN Detection**
- **Drug Interdiction**
- **SAR-Search and Rescue (Public/Military Purpose)**
- **Detection for Troops/Unit Self-Defence**
- **Firefighting**
- **Evidence Collection/Imaging for Investigations**





## Civil and Commercial Applications

- Pipeline, Power Line, Road and Railway Inspection and Monitoring
- Construction and Maintenance Work Inspection and Progress Monitoring
- Precision Agriculture
- Mining
- Green Energy
- Environmental Impact Assessment and Protection
- Wildfire Prevention, Detection, Surveillance and Suppression
- Wildlife Monitoring And Conservation
- Mapping and Surveying
- Search And Rescue
- Transportation Of Small Cargo
- Over Long Distances
- Medical Deliveries
- Pop-up Communication Network Relay
- Scientific Experiments
- Archaeology





## COMMUNICATIONS &amp; PAYLOADS



## SATCOM

provides wide coverage, reliable communication, long-range high data transfer rates, and independence from terrestrial networks for effective operations in hard-to-reach areas.



provides wide coverage, connecting through local base stations for real-time video streaming, telemetry, command-control signals with low latency, and high data transfer rates using existing infrastructure.

## Direction Finder



is crucial for finding locations, tracking targets, and signal intelligence, offering high accuracy, fast detection, and a wide frequency range.

## Cargo



is capable of performing various logistical missions, including payload transportation, the secure and expedited delivery of medical samples, and critical material shipments. Its wide-area coverage and cost-effectiveness make it a reliable and efficient solution.

## LIDAR



acquires high-speed, dense topographic data for high-resolution maps, surveying, geodesy, and forestry solutions.

## SAR

delivers detailed images by analyzing reflections of electromagnetic waves, even in harsh weather and at night, with features like high resolution, wide coverage, and terrain independence.



## EO/IR Gimbals

Quick integration with various gimbals and cameras up to 5 kg in weight.



## Radalt

is used in takeoff, landing, obstacle avoidance, low-altitude missions, and terrain-following, enhancing operational efficiency through safe flight operations and precise altitude control.



## IMSI Catcher

acting as a fake base station, captures IMSI numbers, identifies targets, tracks locations, and monitors communications.





# CGT50

## UNMANNED AERIAL SYSTEM

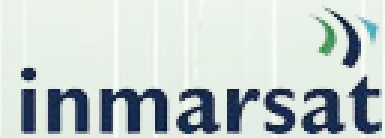




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## OUR PROJECT PARTNERS



T.C. İÇİŞLERİ BAKANLIĞI  
EMNİYET GENEL  
MÜDÜRLÜĞÜ



Trinity College Dublin  
Coláiste na Tríonóide, Baile Átha Cliath  
The University of Dublin



ALTITUDE  
ANGEL



Óglaigh  
na hÉireann  
IRISH DEFENCE FORCES

