

# TURUL

TACTICAL VTOL ISR  
UAV SYSTEM



# TECHNICAL SPECIFICATIONS

## TACTICAL VTOL ISR UAV SYSTEM

Developed by STM, the Fixed-Wing VTOL UAV System is a multi-role aerial platform designed to perform Intelligence, Surveillance, and Reconnaissance missions across a wide range of operational environments. By integrating vertical take-off and landing (VTOL) capability with fixed-wing aerodynamic efficiency, the system removes the dependency on runway infrastructure while delivering extended endurance, a wide operational radius, and a low acoustic signature.

Equipped with a stabilized electro-optical/infrared (EO/IR dual sensor) gimbal payload system, the platform provides continuous real-time imagery and video data acquisition throughout the mission duration. This capability supports effective employment across a wide range of operational scenarios, including border security, tactical reconnaissance, target detection, and persistent area surveillance.

The platform is capable of executing fully autonomous flights in accordance with pre-programmed mission plans and waypoint sequences. Upon mission completion, the vertical landing capability enables safe recovery in confined or infrastructure-limited environments, extending operational flexibility in areas where conventional recovery is not feasible.

## SYSTEM CAPABILITIES

- › Vertical Take-Off and Landing Capability
- › QR Marker-Based Autonomous Precision Landing
- › mmWave Radar-Assisted Precision Autonomous Landing
- › Real-Time Image Transmission with EO/IR Imaging System
- › Long Endurance and Wide Mission Radius
- › GNSS Jamming-Resistant Navigation
- › Mission Planning and Autonomous Flight Capability
- › Day/Night Operational Capability
- › Signal Intelligence and Target Acquisition Capability with RF Seeker Payload
- › Radar Engagement Capability with Stand In Jammer Payload

## TECHNICAL DETAILS

Flight Range	100 km	Cruise Speed	28 m/s
Communication Range	60 km (LOS)	Operating Temperature	-20°C to +50°C
Flight Time	2 hours	Wind Tolerance	15m/s (cruise), 10m/s
Wingspan	3.6 m	Service Ceiling	2000 m (MSL)
Max. Takeoff Weight	35 kg		

## STM SAVUNMA TEKNOLOJİLERİ MÜHENDİSLİK VE TİCARET A.Ş.

Mustafa Kemal Mah. İsmail Karakaya Cad.  
No: 3A İç Kapı No: 1 Çankaya-Ankara/TÜRKİYE  
T +90 312 266 35 50 - F +90 312 266 35 51 - www.stm.com.tr

