

aselsan

SERÇE-1

MULTI-ROTOR
UNMANNED AERIAL SYSTEM

> 5 km

RANGE

> 30 minutes

FLIGHT TIME

<1 kg

PAYLOAD

INTEGRATED CAMERA





SERÇE-1

MULTI-ROTOR UNMANNED AERIAL SYSTEM

SERÇE-1 is a full autonomous unmanned aerial system, which can be equipped with different payloads according to the operational requirements for reconnaissance, surveillance and intelligence missions as well as road traffic information and border security.

SERÇE-1 is developed to operate in difficult conditions with high payload capacity that can be operated at day and night with its standard integrated camera.

System Features

- Weight : < 6,5 kg
- Flight Duration : > 30 minutes (with 1 kg payload)
- Cruising Speed : 45 km/h
- Communication Range : 3 km (standart)
: > 5 km
- Operational Altitude : 10.000 Feet
- Foldable Structure
- Redundant Propulsion
- Laser-aided Landing System
- Geolock Function

Autopilot

- Autonomous Take-Off and Landing
- Full Autonomous Navigation
- Single Point Navigation
- Waypoint Navigation
- Dynamic Mission Planning
- Return Home
- Smart Battery Management

Environmental Conditions

- Operational Temperature : -20°C /+52°C
- Wind Resistance : 54 km/h
- Ingress Protection Rating : IP52

Payload

- Integrated 3 Axis Gyro Stabilized Gimbal
- Image Fusion Technology that allows to monitor the thermal and daylight camera images at the same time.
- Hyperspectral Camera (Optional)

Payload	Features	Configurations	
E/O	Optical Zoom	12X	30X
	Field of View	4.6°-53.4°	2.3°-63.7°
	Resolution	1920x1080	
Thermal	Lens	35 mm	
	Field of View	17.4°	
	Resolution	640x512	

Ground Control Station

- Military Map Support (RASTER and DTED compatible)
- Task Plan Uploading and Recording
- Portable Ground Control Station Support
- Easy Integration to C & C Systems
- Digital Network-Based Communication
- Near Real Time Video Streaming and Recording