

Spy'Ranger 550

Electric mini-UAV system for the most demanding Intelligence, Surveillance and Reconnaissance Missions

Up to 5 hours autonomy
50 km communication range
HD EO-EO low light and
IR (gimbals)



Spy'Ranger 550

Designed for the most demanding ISR missions



Missions

- Combined arms unit contact intelligence
- Flying eyes of forward observers for indirect fire manoeuvres (artillery support and special forces)
- Border surveillance
- Critical infrastructure protection

Highest performance

- Unique endurance and stealth thanks to electric engine, UAV aerodynamic efficiency and high-performance certified batteries
- Reliable and secure thanks to omnidirectional, long-range, high data-rate, secure datalink
- High image quality thanks to gyrostabilised and HD EO-EO low light and IR modular payload
- Proven stabilisation and processing algorithms benefiting from Thales experience in targeting and reconnaissance pods for combat aircraft
- Robust and easy-to-use system thanks to design based on lessons learned from French Army UAV operations in combat

Optimal mission efficiency

- Deployable on very short notice by two people (< 20 mins)
- Easy to operate after short training phase
- Simple, light and robust ramp launch
- Omnidirectional datalink avoids the need for antenna pointing

High survivability

- Powerful sensors allowing operation above 500 m altitude (safe from small-arms fire)
- Stealth



Combat-proven, user-friendly control station

- Combat-proven Geographical Information System
- Interface designed with French Army operators
- Open architecture for easy Interface with C4I and BMS

Physical characteristics

- Fixed-wing electrically powered aerial vehicle
- 5.2 m wingspan
- MTOW < 25 kg

Flight capabilities

- Autonomy: up to 5 hours
- Cruising speed: 17 m/s with boost mode up to 26 m/s (93 km/h)
- Maximum take-off wind: ≤ 12 m/s
- Exceptional aerodynamic efficiency
- Airworthiness certification

Optronic payload

- 2-axis gyrostabilised HD EO-EO low light and IR (gimbals)
- 3-axis electronic stabilisation
- NIR laser pointer (optional)
- High-end imagery processing: automatic moving target detection, enhanced videotracking, geotracking

Datalink

- Up to 50 km range
- High data-rate
- Omnidirectional antenna
- Secure

Interoperability

- MIL-STD 810-G and STANAG 4370
- STANAG 4609 (video) and STANAG 4545 (image)
- STANAG 4703 (USAR LIGHT)