



MULTI-CONFIG UAV FOR
HEAVY PAYLOAD MISSIONS

G3

A soldier in full combat gear, including a helmet and face mask, is holding a white Sentinel G3 drone. The drone has four propellers and the number '779' is visible on its side. The background shows a rugged, rocky terrain with sparse vegetation and distant mountains under a cloudy sky.

INTRODUCTION

Stealth Power, Heavy Payload

Introducing the Sentinel G3, our most advanced UAV designed for complex, heavy payload missions. With its versatile multi-option configuration, the G3 excels in long-distance operations and can be equipped with a range of sensors, from high-performance EO & IR payloads to communication jammers and electronic warfare equipment. Capable of carrying up to 3 kg of payload, this drone offers unparalleled adaptability and power. Controlled by the cutting-edge Aero-Sentinel GCS and transportable with a standard Jeep, the Sentinel G3 is engineered to meet the demands of the most challenging missions.



G3 Drone Specification

DRONE CHARACTERISTICS

Frame Dimensions	80 cm x 80 cm x 40 cm
Proppeller Size	73.6 cm
Max Payload	Up to 3 Kg
TOW Weight	Up to 11 Kg
Battery	Li-Po 24V
Propulsion System	4 electric motors and propellers
Storage Temperature	-15°C to +60°C / -60°F to +140°F

PERFORMANCE

Endurance	Up to 90 minutes
Range	Up to 5 km LOS
Speed	Up to 65 km/h
Wind Limit	13 knots / 28 Km/h max
Covert Distance	250 meter
Operating Altitude	100-1000 ft. / 30-300 m AGL
Operating Temperature	-10°C to +50°C / -50°F to +122°F



GROUND CONTROL SYSTEM

Reliable. Mission-Ready

The Sentinel GCS is a portable control unit built for fast-paced operations in the field. With an intuitive interface, it simplifies mission planning, flight control, payload management, and real-time drone monitoring—all in one streamlined system.

A live video feed and moving tactical map keep operators fully informed at every stage. The rugged console includes a built-in computer with optional touchscreen, and a separate video display for flexible, tripod-mounted setups and greater freedom of movement.

Designed for versatility, the Sentinel GCS seamlessly supports the full range of Aero Sentinel drones—giving your team one unified control hub for every mission.

Build	Glassfibre composite housing
Computer	MIL-STD rugged toughpad
Datalink	Built in datalink 10 km range
Encryption	AES 256
Endurance	5 hours
Handling	Shoulder straps, Tripod mount
Storage Temperature	-15°C to +60°C / -60°F to +140°F



G3 PAYLOAD OPTIONS

Kfir-High-Res Precision for Day & Night

Kfir is a dual EO-IR stabilized camera turret crafted for long range observation applications that demand very low weight. Embodying technology innovations, Kfir provides unmatched capabilities.

- Zoom : x20 + x2 digital (total x40)
- HFOV : 60° WFOV – 3° WFOV – 1.5° DFOV
- Thermal Resolution : 1280x720
- Pitch FOR: -45° to +135°
- Roll FOR: -180° to +180° Optional 360° Continuous
- Weight : 350 grams
- Dimensions : D-64mm x H-94mm



Snonit-Small Form, Big Mission Advantage

Snonit is a dual EO-IR 3-axes camera with a mere weight of 180gr [6.3 Oz]. Snonit delivers unparalleled performance at compact packaging.

- Zoom : EO: X26 (X13+X2 digital)
- FOV : 60° WFOV – 4.5° NFOV – 2.2° DFOV
- Thermal Resolution : 640×480
- Pitch FOR: -45° to +135°
- Roll FOR: -180° to +180°
- Weight : 180 grams [6.3 oz.]
- Dimensions : D-84mm x W-58mm x H-82mm



Dror-Micro Gimbal, Maximum Tactical Reach

Dror is a dual EO-IR stabilized camera with a mere weight of 115 grams offering unparalleled long range observation capability.

- Zoom : x20 + x2 digital (total x40)
- HFOV : 60° WFOV – 3° NFOV – 1.5° DFOV
- Thermal Resolution : 640 × 480
- Pitch FOR: -45° to +135°
- Roll FOR: -180° to +180°
- Weight : 115 grams
- Dimensions : 40 mm x 40 mm x 65mm





AeroSentinel is a leading developer and manufacturer of advanced unmanned aerial systems (UAS) and tactical drone solutions for defense, security, and public safety. Specializing in lightweight, durable, and mission-ready drones, ground control stations, and payloads, AeroSentinel empowers military, law enforcement, and first responder teams worldwide to gain real-time intelligence and maintain tactical dominance. From design to deployment, AeroSentinel's cutting-edge drone technologies help protect lives, secure borders, and enhance situational awareness- anytime, anywhere.

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