

Unmanned Aircraft System

Hornet



Micro UAV for Defence and Security Sector



Hand-launched



Autonomous mission



Auto-landing

1h+

Up to 80 minutes in the air



Quiet and virtually undetectable

HD

High definition video



Backpack size footprint



Modular construction

Hornet UAV features special design considerations for land operations. From the very beginning, it was developed as a tool for power structures. It is small enough to be packed into a tactical backpack but is capable of staying in the air for up to 80 minutes and broadcast a digital high definition image to the operator.

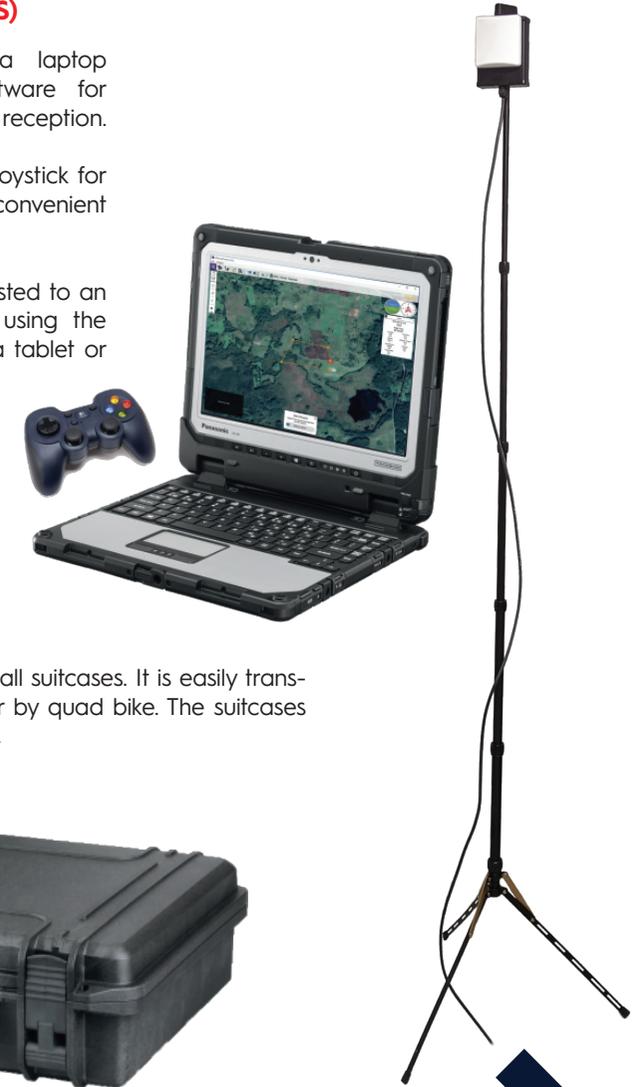


Ground control station (GCS)

The UAV is controlled by a laptop equipped with dedicated software for mission management and video reception.

The GCS is supplemented by a joystick for easy camera control and convenient manual operation of the UAV.

A digital image can be broadcasted to an unlimited number of recipients using the reception station connected to a tablet or a mobile phone.



System transportation

The entire system fits into two small suitcases. It is easily transported on foot, by motorcycle or by quad bike. The suitcases are certified IP67, STANAG 4280.



Real-time view

Gimbaled cameras payload broadcasts high definition (HD) images from EO cameras and screen centre coordinates. The image can be also recorded on board of the aircraft for later replay on the ground. A dual EO camera allows to use an optical 4x zoom and manage long-range surveillance.

Next to the EO camera is a high-resolution thermal camera for both day and night operations.



Camera payload

The day-time camera is enabled with 4x optical zoom. The thermal camera will let you explore the objects both, day and night.

Mechanically stabilized on all controlled axes, the cameras continuously pan 360 degrees.

When landing, the cameras will be automatically retracted into the aircraft.

Specifications



Payload options	Three-camera stabilized module with 4x optical zoom and thermal cameras.
Operational distance	Up to 10+ km (Line of Sight) All communication is encrypted with AES256
Endurance	Up to 80 minutes (depends on a mission)
Speed	45km/h (24 knots) cruise, 90km/h (49 knots) dash
Operational altitude	120m (400ft) AGL (Typ.)
Wing span	120cm (3.9ft)
Length	80cm (2.6ft)
Weight	1.4kg (3 lbs)
Launch method	Hand-launched. Take-off is possible even in a confined area.
Recovery method	Deep-stall landing. Landing is possible even in a confined area.
Crew	Min. 1 person; recommended 2 persons

Ground Control Station Specifications

Data encryption	AES256
Minimum requirements for PC	Laptop with Windows 10 OS, CPU Intel i5, 8Gb RAM, 15Gb free space on disk.
Software	UAV comes with software for aircraft configuration, mission planning and video reception.

All UAS are delivered together with 5-day long basic courses that include UAV control, mission management, operating with EO/IR image systems and other topics.



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Hornet UAS was designed from scratch by Granta Solutions. We focus on simplicity, ruggedness, and performance in our UAS and always keep operator's interaction and workflow in mind. Our design philosophy traces back to our experience as UAV operators in the military forces. Hornet UAS is a clear example of this with an industry-leading flight time, simple operation and ruggedness.

All information and specifications are subject to change without notice.