

HEIGHT
TECHNOLOGIES

G1
TACTICAL DRONE



35 MIN

>**1.5** KM

12 KNOTS

1.5 KG

120 M



Endurance



Range



Wind limit



Takeoff weight



Covert altitude

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DEDICATED DRONE SOLUTIONS

HT

READY, SET, TAKEOFF

The G1 is designed for full autonomous operation and high maintainability while keeping ease of use in mind. The plug & play strategy formed a very quick, small and lightweight UAV with only 2 minutes in turnaround time. This enables extreme portability, making the G1 a perfect first responder that matches any type of Tactical unit.

COMMON APPLICATIONS

- Security missions
- Emergency situation response
- Special weapons and tactics (SWAT) force
- Search and rescue
- Law enforcement
- Damage control
- Commercial



USER FRIENDLY INTERFACE

The ground control station (GCS) is a small-sized, portable unit that enables safe operation and control of the drone. Its user-friendly incorporated interface is used for mission planning, different operational modes, payload control and UAV monitoring.

TOUGH TOUCH SCREEN

The user interface includes real time display and a moving tactical map for complete mission overview. The control console has a built-in ruggedized computer with a touch screen option for maximum operation convenience. The separation between the control unit and the video screen allows free operational movement while offering an option of mounting the unit on a tripod.

G1
GROUND CONTROL STATION



CAMERA OPTIONS

Our cameras are in extensive use all over the world, and are thoroughly tested before ever being sent to customers to ensure only the best product experience. We provide 4 different camera models.

COLIBRI



Visible camera

Resolution	1280x720
Zoom	x6.6 + x2 digital, (total x13.2)
HFOV	38.8° WFOV - 5.9° NFOV - 2.9° DFOV

COLIBRI2



Resolution	1280x720
Zoom	x20 + x2 digital, (total x40)
HFOV	60° WFOV - 3° NFOV - 1.5° DFOV

Thermal camera

Resolution	640x480
Zoom	4 x digital
HFOV	32° W.FOV - 8° D.FOV

NIGHTHAWK



Visible camera

Resolution	PAL/NTSC
Zoom	x6.6 + x2 digital, (total x13.2)
HFOV	31° WFOV - 4.7° NFOV - 2.3° DFOV

NIGHTHAWK2



Thermal camera

Resolution	640x480
Zoom	4 x digital
HFOV	18° W.FOV - 4.5° D.FOV

MISSION PROOF EQUIPMENT

Unmanned aerial platforms provide military users with unmatched strategic advantages. Height Technologies offers a range of quadcopters, designed especially for ISTAR missions. Thanks to the capability of flying at low altitudes, thus enabling under-the-radar flight, and a minimal sound and visual signature construction, covert operation is made possible. These small, quiet, easy to operate tactical UAV systems carry high quality day and night payloads with real-time communication and video links.

RAPID DEPLOYMENT

Rapid deployment is another aspect with high importance while performing ISTAR missions; these innovative systems are built to enable minimal turnaround time and immediate portability. The quadcopters can be assembled in less than five minutes, swapping batteries and sensors is a 'plug-n-play' procedure that can be performed by one person with no needs of complex training. All these combined with VTOL (Vertical Take-Off and Landing) and up to 80 minutes of endurance, are made to support the operational concept of independent intelligence gathering by a platoon in combat.

REAL TIME INFORMATION

The delivery of target status analysis and geographic data directly to a small tactical unit or individual soldier is priceless. Information gathering is made accessible, easy and not life threatening as it was before. Making use of these quadcopters saves lives while obtaining a significant advantage during wartime. The system is operated from a unified GCS (Ground Control Station) which presents all gathered information in one coherent, user-friendly application.

RUGGED CONTROL STATION

The GCS is based on a ruggedized laptop that can be used in harsh environmental conditions that can be encountered in a war zone. Some of the missions' advantages include enabling around-the-corner insights in real-time; which allows warning the team in advance for enemies and potential threats. This type of information ensures safer movement in urban, rural and different terrains. Therefore making troops proactive based on field intelligence. Obtaining critical information reduces the risks for soldiers and civilian population by pin-pointing military response accurately to the potential threat.



SPECIFICATIONS

GENERAL FEATURES

Simple, compact, lightweight & modular design
Ruggedized, dust and rain proof
1 man required for rapid deployment and operation
Designed for ISTAR missions



SYSTEM COMPONENTS

1 quadcopter
1 rechargeable battery
Dual day & night camera
10" ruggedized touch screen computer
Operation console with joysticks and controllers
1 charger kit

Transportation	1 glassfibre transport case
Endurance	Up to 35 minutes real flight time incl. payload
Range	1.5 km, (more on request)
Take Off Weight	1.5 kg.
Dimensions	40 cm x 40 cm x 20 cm
Wind Limit	12 knots / 22 Km/h
Typical Operating Altitude	100 ft. -1000 ft. / 30 m -300 m AGL
Operating Temperature	-10 C to +50 C / -50 F to +122 F
Battery	LiPo, 16V
Battery Charger	Option by Car and std. socket 220V/110V
Propulsion System	4 brushless motors and propellers v
Communication	Data uplink, telemetry and video downlink
Payload	Dual day & night. Real time high quality video
Sensor Stabilization	2 axis mechanical gimbal & software stabilization
Technical Literature	Operational manual O-level maintenance manual Optional training package* 12 month for manufacture malfunction.
Warranty	*Does not include: operator mistake, faulty maintains, deviation from manuals and training instructions.

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