



**BG·OPTICS**



Aerial  
Photography



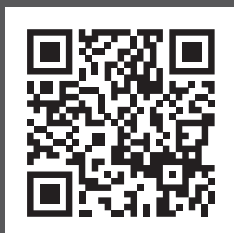
Perimeter  
Protection



Covert  
Surveillance



Emergency  
Response



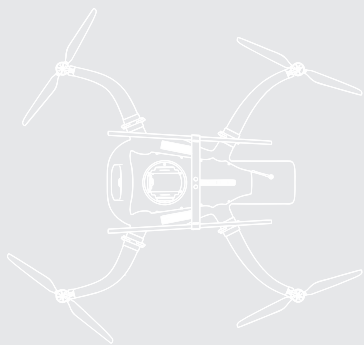
**BG·OPTICS**



**PHOENIX**

complex of the distant objects  
monitoring

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**PHOENIX**  
complex of the distant objects  
monitoring



**Phoenix** complex uses unmanned aerial vehicle (UAV) and is designed for distant objects monitoring in the visible and infrared ranges. It is applicable as a separate product and as a part of other complex security systems.



The intuitive touch sensitive interface, multifunctionality, requires minimal user training.



Flights in severe weather conditions.



Mobility of the system, minimal flight preparation time.





### Autonomy

- ✓ The unmanned aircraft with an automatic control system (autopilot)
- ✓ Navigation system with inertial correction (GPS/GLONASS)
- ✓ Representative tracking with different maps engines e.g. Google, Yandex, OpenStreetMap



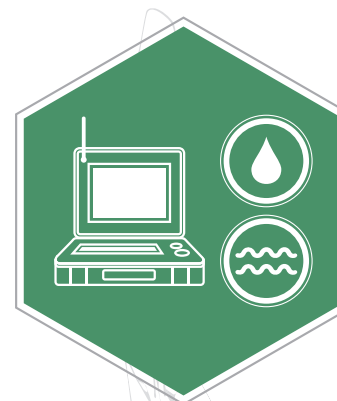
### Integration with other security systems

- ✓ Interaction with the system "WOLF" allows to implement an integrated approach to the protection of the objects.



### Ability to use different payloads

- ✓ Course camera, release control camera (straight down)
- ✓ Double-axis suspension with the fiftyfold zoom camera with a resolution of 1920x1080
- ✓ Infrared camera with a resolution of 384x288
- ✓ Release for cargo drop



### Compact and reliable system

- ✓ The ground control system (GCS) includes a set of spare parts and a replaceable battery, which is charged directly in the GCS case
- ✓ GCS case is moisture and water resistant



### Ease of maintenance

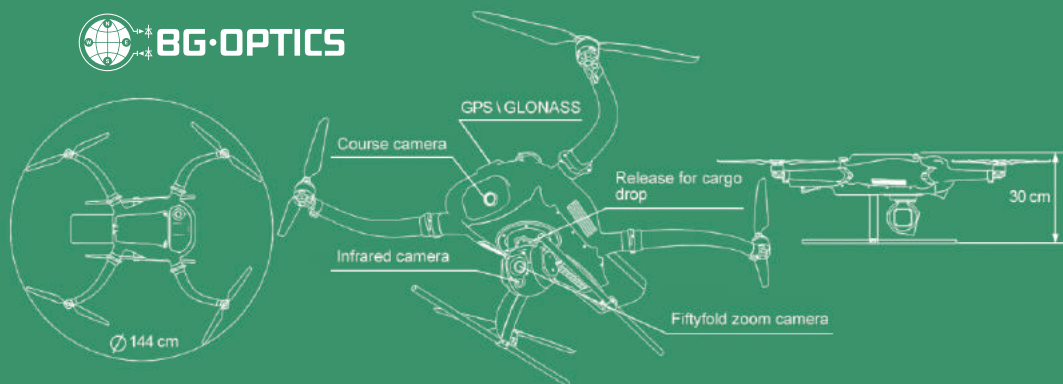
- ✓ The complex can be managed by one operator
- ✓ Replacing the battery, payloads in the field does not require any special tools.
- ✓ Possibility of video recording to the removable media on board.



### Various control and flight modes

- ✓ UAV flight control modes — manual/automatic
- ✓ Hovering with opportunity to control the height and azimuth
- ✓ Dynamic in-flight route adjustment by operator or external systems





## Specifications:

**Flight time:** up to 40 minutes

**Wind resistance:** 10 m/s

**Ambient temperature:** from -20°C to +50°C

**Line of sight:** 1.5 kilometers (undisguised object)

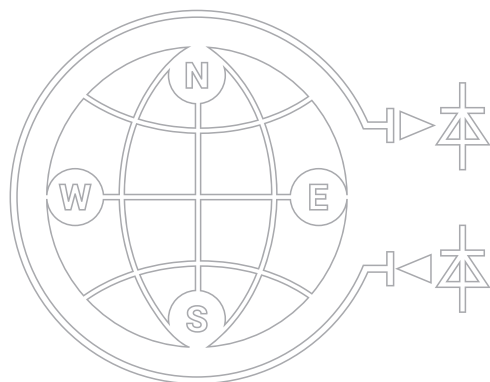
**Practical flying range:** not less than 12 km

**Flight height:** up to 2 km

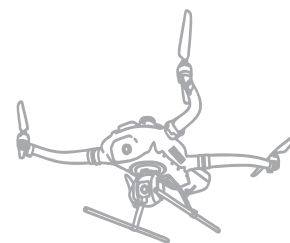
**Launch:** vertical takeoff and landing, does not require any special airstrip

**Dimensions:** diameter – 144 cm, height – 30 cm

**Weight (no payload):** 5 kg



## Equipment:



- ✓ Copter
- ✓ Course camera
- ✓ Double-axis suspension with the fiftyfold zoom camera
- ✓ Release control camera (frame - straight down)
- ✓ Release for cargo drop
- ✓ Possibility to equip the set by the suspension with an infrared camera, interfaced with a regular camera



- ✓ Ground Control System (GCS)
- ✓ Spare parts set
- ✓ Replaceable battery
- ✓ Waterproof GCS case

**Phoenix** is capable to detect moving objects on the general background in the real time and follow them.

Due to the vertical takeoff and landing **Phoenix** is ideal for continuous monitoring of the target, which in turn provides the operator with full information of the intentions and actions of the observed object, so the operator is able to make the best decision.

Thus, we have an ideal platform for a wide range of tasks in any conditions, including:



Aerial photography



Perimeter and/or linear objects monitoring



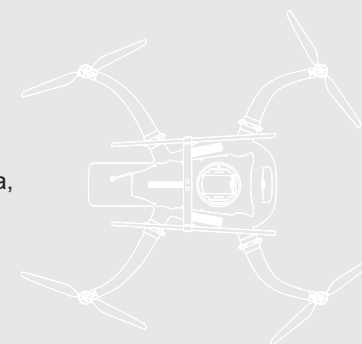
Covert intelligence and surveillance



Accident prevention and emergency response

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