



Ghost Dragon

Small units tactical UAV with dual camera and on-board machine vision module.

Specs

Size: flight 460 x 360 mm, transport 300 x 150 mm

Flight time: 35 min

Endurance: 20 km

Dual radio: simultaneous 900 Mhz and 2.35 Ghz communication

GNSS: dual band (L1 & L2) GPS, Galileo, BeiDou and GLONASS

On board machine vision computer with quad-core 1 GHz Arm processor

Thermal camera: 640 x 512 px; 50 fps LWIR

Visual light camera: 1/1.8" OS08420; 8 MP; 4K 30 fps low light RGB
Unlike commercial drones, we know where on the map the camera is looking at. The video and target location information we stream to the pilot are georeferenced.

Wind resistance: 11 m/s (Force 5)

Temperature proof: -20 °C... +45 °C

Water proofing: IP53

Battery: 4S 99Wh LiPo

OPTIONAL FEATURES:

Precision landing with ±12 cm accuracy

RTK gnss (GPS and Galileo)

AVAILABLE RADIO CONFIGURATIONS:

2.4 Ghz p2p & 4G/LTE GSM

2.4 Ghz p2p & 920 Mhz p2p

6-band hopping frequency radio (1.6-2.5 Ghz)

How it works

Our drone is specifically designed to have higher resistance against jamming and spoofing.

THE COUNTERMEASURES WE USE:

1. We use 2 simultaneously running radio frequencies;
2. Both frequencies are not standard commercial drone radio bands. This makes it much harder to detect drone. If one frequency get's jammed the other radio will continue broadcasting.
3. We use dual band GNSS module: L1 and L2 band.

The drone can operate in radio silence or stream constant video back to the Ground Control Station. In radio silence mode the drone goes on air once it has detected objects of interest (humans, cars, trucks, armoured vehicles, tanks, roadblocks, tents etc).

The drone can be redirected to another area, given a new assignment, flown back to base or handed over to another operator with another Ground Control Station at any time.

