

Advanced payloads USG-camera systems



USG-212
EO/IR gimbal

USG-211
EO gimbal



Features



High-quality IR camera allows to effectively detect and track targets even in low-visibility conditions (available on USG-212 only);



Full HD Sony block camera with **30x optical zoom**;



Aerowatcher mission control software provides a full set of tools to effectively collect visual information, analyze it, save it and create after mission reports;



Video processing with digital stabilization, target tracking, scene lock;



Video information area – this is where you see footage from your EO/IR payload, control all movements of the gyro-stabilized platform, preferences and features of sensors: zoom, sensitivity, contrast, etc;



Geoinformation – gives an opportunity to observe the coordinates of the object. There is also data on the distance from the sensor to the object, angles of the gimbal, and much more useful information, which is being updated in real-time;

Features



Objects on the map – capture points of interest with just one click on the video. Doesn't matter where you click, the system will save this object and immediately add this to the map, together with its photo;



Augmented reality – see names of the streets, objects, and other useful information right above the video in real-time, so you won't miss anything;



Live map – get the current location of your drone and the area where your gimbal is pointed. It also has all detected objects. Moving map helps a lot to know the current mission information and plan the next steps;



Reporting tools – quickly generate standard PDF reports, save all objects on the live map, include general information of the flight.



See how
it works

USG-camera
systems

Specifications

	USG-211	USG-212
Dimensions	Width: 118 mm Height: 217 mm	Width: 150 mm Height: 241 mm
Weight	1.35 kg	2.3 kg
Optical zoom	30x	30x
Rotation angles	Yaw: 360° Pitch: -30° ... +110°	Yaw: 360° Pitch: -30° ... +110°
EO Camera	1920 × 1080 at 60 FPS	1920 × 1080 at 60 FPS
LWIR Camera	–	640 × 480 at 30 FPS
Electric consumption	10 ... 36 V, 2.5 A	10 ... 36 V, 4 A
FOV	63.7° (wide) to 2.3° (tele)	63.7° (wide) to 2.3° (tele)
Working temperature	-10°C to +40°C	-10°C to +40°C
Digital zoom	4x	4x
EO video out	HD-SDI (BNC 75 Ohm)	HD-SDI (BNC 75 Ohm)
IR video out	–	AV/CVBS (BNC 75 Ohm)
Commands	Pelco-D, MAVLink	Pelco-D, MAVLink (RS-19)

Advanced payloads USG-camera systems are dual-sensor gyro-stabilized gimbals with Full HD day-view cameras. USG-212 is also equipped with a thermal camera.

USG-camera systems are best suited for fixed-wing drones, aerostats, and small manned aircraft, however, they can be effectively used on different types of aerial platforms.

USG-camera
systems

Complete solutions



**USG-212
complete
solution**

**USG-211
complete
solution**



What's included

USG-212 or USG-211 gimbal

Gimbal itself.

An anti-vibration damping unit

Eliminates vibrations to ensure smooth image quality.

A video processing module

Enables: target and scene tracking, digital video stabilization, onboard recording, Full-HD live-streaming, etc.

Rugged laptop

Corresponds to military-grade standards, all necessary controllers are included.

A mission control software

Allows to control the gimbal, see where the drone is flying on the map, names of the streets, objects right above the video in real-time, generate mission reports, saving the most valuable asset - the time.

Rugged transportation case

For safe and convenient transportation.

USG-camera
systems