

Full-HD EO with 30x optical zoom

Scene lock

Target tracking

Digital video stabilization

Anti-fog feature

On-board recording and storage



aerostats. It's a perfect for longrange surveillance, search and rescue, and security applications.

UKRSPEC SYSTEMS

Application

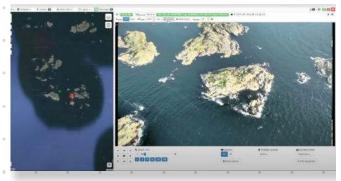
cases

The synergy between the hardware and the software allows to execute various tasks depending upon mission.

Search and rescue

Our equipment is able to make search and analysis in hard-to-reach areas of the Earth, to create reports while searching, and to operate in accordance with included protocols.





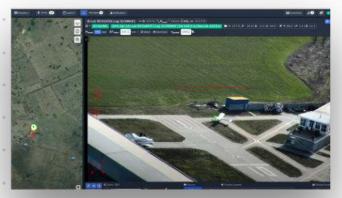
Anti-poaching

The flexibility of our technical solution gives us an opportunity to adapt the functionality of our software to collect information in different fields. Whether it's counting polar bears in the Arctic or locating ivory poachers.

Wildfire prevention

Monitor open space areas and measure the temperature changes in the selected preset area in automatic mode, locate the fire, determine the scale, position, and transmit all information to the Response Service.





Surveillance and observation

The flexibility of our technical solution gives us an opportunity to adapt the functionality of our software to collect information in different fields. Whether it's counting polar bears in the Arctic or locating ivory poachers.

Application

cases

Ukrspecsystems offers a wide range of EO/IR gyro-stabilized gimbals for fixed-wing and multi-rotor platforms. Possible application cases are innumerable and can be limited only with the platform restrictions our solution will be installed on. However, our camera systems comply with the highest quality standards and our team has huge expertise with camera systems integration on the various platforms.



Military



Wildlife monitoring



Border control



Pipeline inspection



Powerlines inspection



Police assistance

System

features and technologies

During the years of constant improvement our team received comprehensive feedback from the endusers. Based on our experience and expertise we've made a conclusion that first and foremost human factor should be eliminated to decrease critical issues and failures. We want you to have one of the most reliable drones on the market.



Objects on the map

Capture points of interest with just one click on the video. Click and the system saves the object and immediately add it on the map, with a photo attached.



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

Observe the current location of the drone and the area where your gimbal is pointed. 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.









Digital video stabilization

Stabilizes the image for clear and smooth video both online and raw onboard recordings.



30x optical and 4x digital zoom

Observe your point of interest in the smallest details no matter what the distance is.



Picture-in-picture

Check video streams simultaneously.



Target tracking

Simply click on the object and the camera system will immediately start tracking it: whether it's a human, vehicle, or any other object. Nothing can escape your eye.



Capable of operating in harsh weather conditions

From -10C to +40C, despite the rain, fog, wind, or mist.



Onboard video recording

The whole mission may be recorded from both sensors for better analytics or post-* mission check.



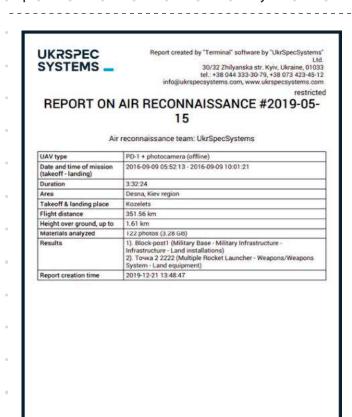
Smart solutions company

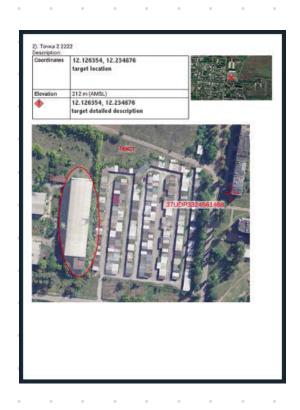
Aerowatcher

software

Reporting module allows you to quickly generate a standardized report of your aerial surveillance. It will contain general information about your flights, such as time and date, duration, total distance traveled, number of detected objects, and flight route.

Right after that, you will find every object that was detected during the current session. Object description includes general information, coordinates, photo, and location on the map. The report can be exported as a PDF file and can be easily forwarded to a client and passed by to a decision-maker.



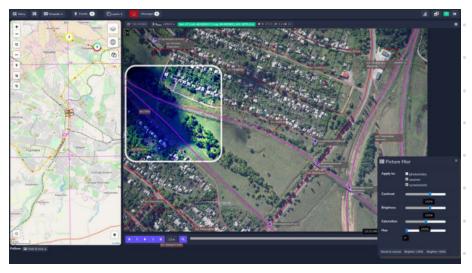


Mission replay mode

Sometimes you miss important things when you are in a rush or there is simply not enough time to carefully study the video during the flight. This is why we introduce the post-processing mode.

Upload video or photos from the drone, together with the log file to the software and you will enter replay mode that will simulate the flight.

You can see the same video already synchronized with the flight route, and know exactly where it was recorded. Use a set of tools, like video enhancement, zoom, annotations to take a maximum of your visual materials and collect as much information as possible.



Technical

details

Gimbal specs:

Width	115 mm
Height	164 mm
Weight	1.4 kg
Optical zoom	30x
Digital zoom	4x
Yaw	360°
Pitch	30-110°
EO resolution	1920 x 1080
EO framerate	60 fps
Electric consumption	1036V, 2.5 A
EO FOV	. 63.7° (wide) to 2.3° (tele)
Working temperature	-10°C to +40°C
EO video out	HD-SDI (BNC 75 Ohm)
Commands	Pelco-D, MAVLink

DRI. Vehicle

Detection	9000 m
Recognition	2200 m
Identification	1100 m

DRI. Human

Detection	3500 m
Recognition	1700 m
Identification	900 m

VPB specs:

Width	120 mm
Height	82 mm
Length	149 mm
Weight	0.75 kg

Anti-vibration mount specs:

Width	270 mm
Height	70 mm
Length	249 mm
Weight	0.65 kg



System includes



The USG camera systems come as plug-andplay turnkey solution. To begin with cablework and to end with controllers - simply connect it with your aircraft and execute the mission.

What you get:

- USG-211 gimbal
- · Video processing block
 - Anti-vibration mount
- Rugged laptop/tablet pc with preinstalled
 - software
 - Controllers
 - Connection kit
 - Rugged transportation kit





■ Smart solutions company