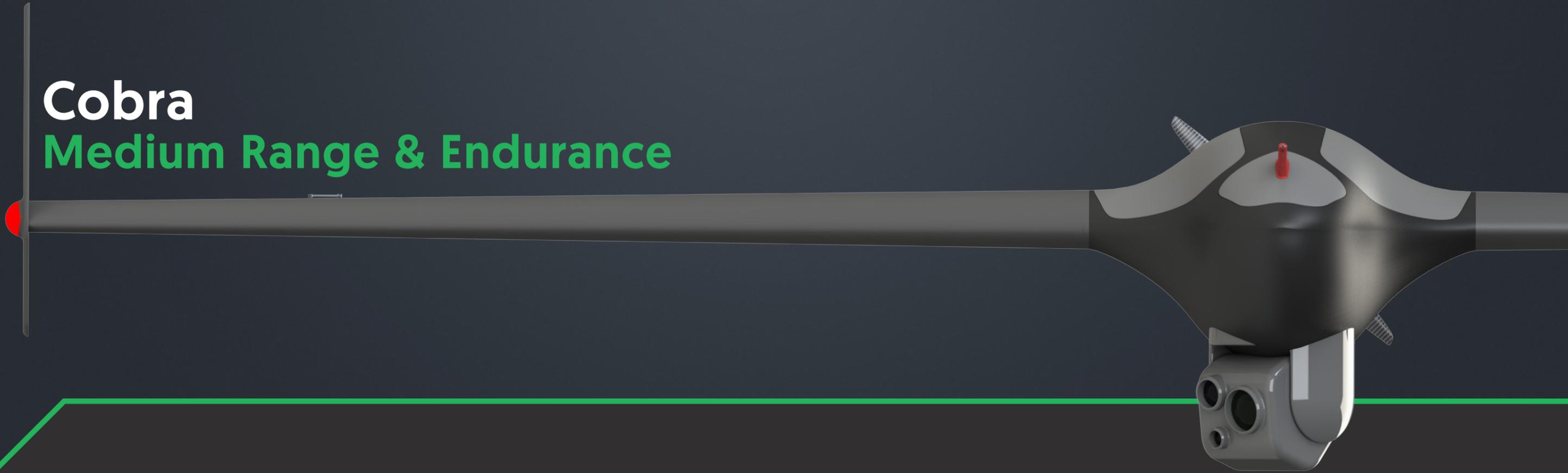


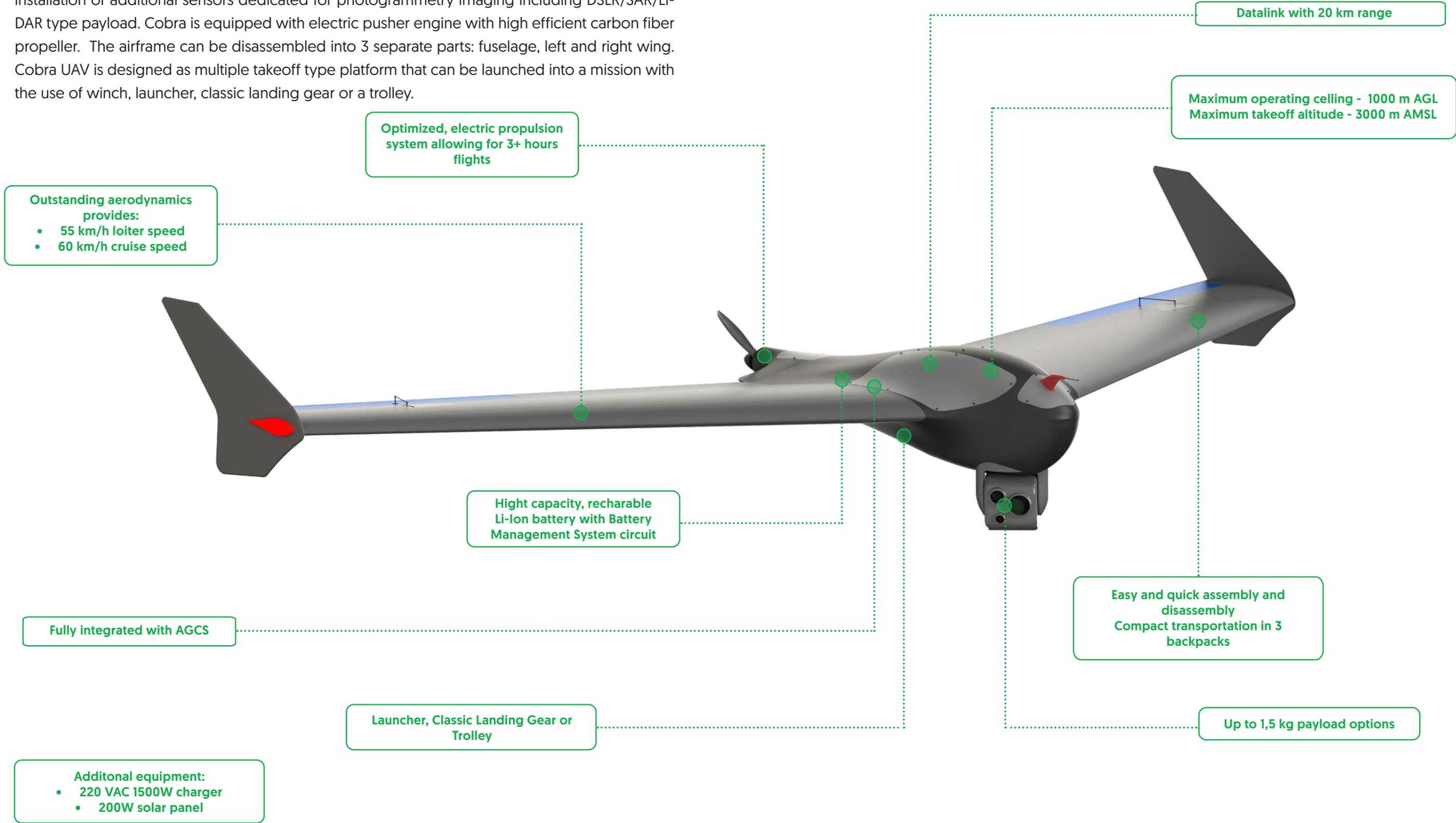
Cobra
Medium Range & Endurance

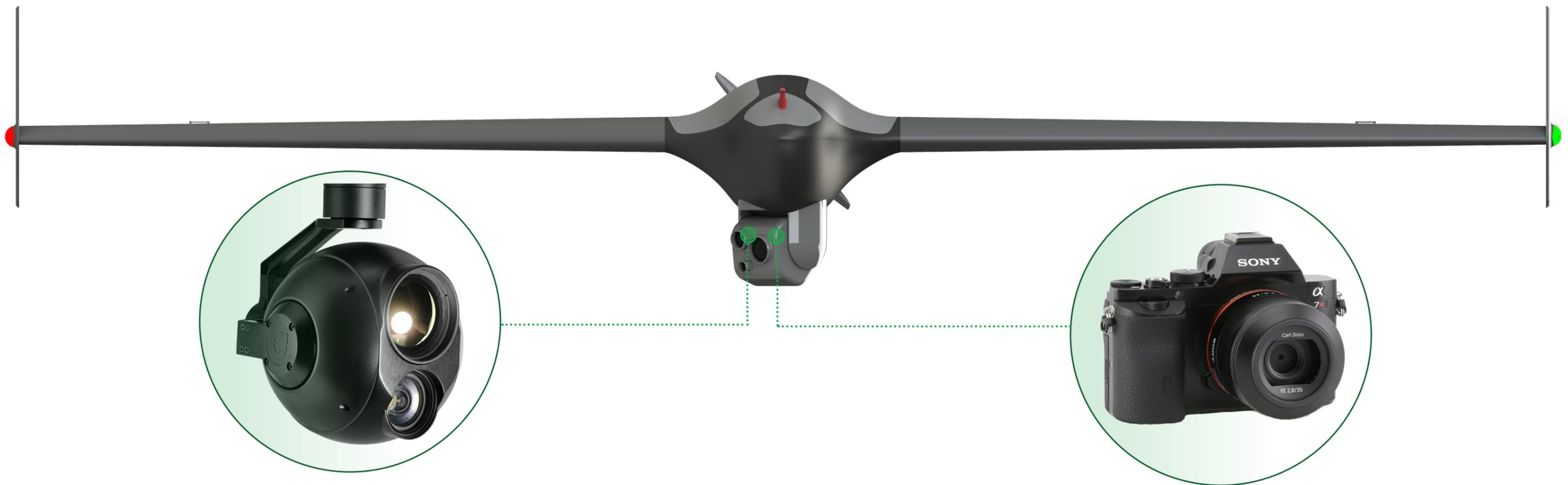


Platforms

Asseco Cobra

Cobra is 10 kg MTOW fixed wing aircraft designed for airborne surveillance with the use of day and night sensors mounted in stabilized gimbal. High volume Cobra fuselage structure allows for installation of additional sensors dedicated for photogrammetry imaging including DSLR/SAR/LI-DAR type payload. Cobra is equipped with electric pusher engine with high efficient carbon fiber propeller. The airframe can be disassembled into 3 separate parts: fuselage, left and right wing. Cobra UAV is designed as multiple takeoff type platform that can be launched into a mission with the use of winch, launcher, classic landing gear or a trolley.





Parameter	Value	
Resolution of TV sensor	1080p, 2.13 Mp	
Resolution of IR sensor	480p, 17 μm	
Daylight camera zoom	30x optical, 12x digital	
IR camera zoom	6x digital	
Field of view of TV sensor	Horizontal	63.7 deg
	Vertical	47.8 deg
Field of view of IR sensor	Horizontal	12.4 deg
	Vertical	9.3 deg
Gimbal movement range	Azimuth 360 deg	
	Tilt +20 deg to -90 deg	

Powered by 30x optical zoom high resolution camera module, can recognize cars, buildings and structures in 3000 meters, which can meet the application requirements of various solutions. Integrated ULIS high-precision uncooled long wave thermal image sensor, can record and transmit thermal image and visible images. With temperature measuring sensor providing accurate verify the temperature of objects. The thermal sensor allows measure temperature ranging between -30 to +300 Celcius. Integrated software provide colore adjustment regard to different enviroment for better recognition.

Parameter	Value
Resolution of TV sensor	4912p, 36.4 Mp
Focal lenght	35 mm
Gimbal movement range	fixed

The Sony Alpha 7R is a full-frame E-mount mirrorless camera. It uses a 36 megapixel CMOS sensor with no optical low-pass filter and Bionz X processor, which produces images with better detail, less noise, and reduced diffraction. A7R is smallest and lightest full-frame camera on the market. With stabilizing gimbal frame and UAV PPK solution which integrate the functions of GNSS observation post processing, Event Mark interpolation and geotagging in EXIF. provides solution for photogrametry missions.

Asseco Ground Control System - Field



Asseco Ground Control Station - Field

This solution is dedicated for Mini class and medium range unmanned aerial platforms. It provides stable operation and mobility even in difficult conditions. Asseco Ground Control System – Field has a built-in battery and can be equipped with an optional RT (Real Time) module, ensuring additional safety during the mission.

- interface adapted to work on a single touch screen,
- possibility to select a computer system,
- ability to map functionality to physical manipulators (3D map control with a manipulator),
- mobility and increased resistance to harsh weather conditions,

Versatile of applications



Uniformed Services

Cobra equipped with secured datalink and dual observation gimbal is a great solution for uniformed services like military, police and border guard. The on board flight control system is not limited by no fly zone or flight altitude restrictions. The complete system is designed based on strict requirements and can be used in harsh environments during daylight and night conditions. Integrated avionic system minimizes the need of manual input from the system operator- most of the surveillance and search missions can be performed in fully automatic mode

Photogrammetry

Cobra equipped with high resolution camera is a perfect, fully automatic solution dedicated for photogrammetry used over cities, forests etc. Postprocessing software allow to create high detail photogrammetry maps.

Asseco Unamned Aerial Systems

Asseco Poland S.A.
Olchowa 14
35-322 Rzeszów
Phone: +48 17 888 55 55
Fax: +48 17 888 55 50

International Organizations and Solutions
for the Security Sector Division

Branickiego 13
02-972 Warsaw
Phone: +48 22 500 26 84
E-mail: info@asseco.pl

asseco.pl



ASSECO