



ABRIS Design Group has a 20-year experience in design and production of ultra-light aviation, UAV, aerial mapping and monitoring

UAVs from our own model range fly all over the globe from hot deserts of Turkey to icy plains of Antarctica

POWERFUL PROFESSIONAL **UAV SOLUTIONS**



abris.aero

FLIRT

FLYING
INTELLIGENT
ROBOTIC
TOOL

FLIRT is our model range of powerful professional fixed-wing UAVs for aerial mapping, monitoring and other remote sensing applications

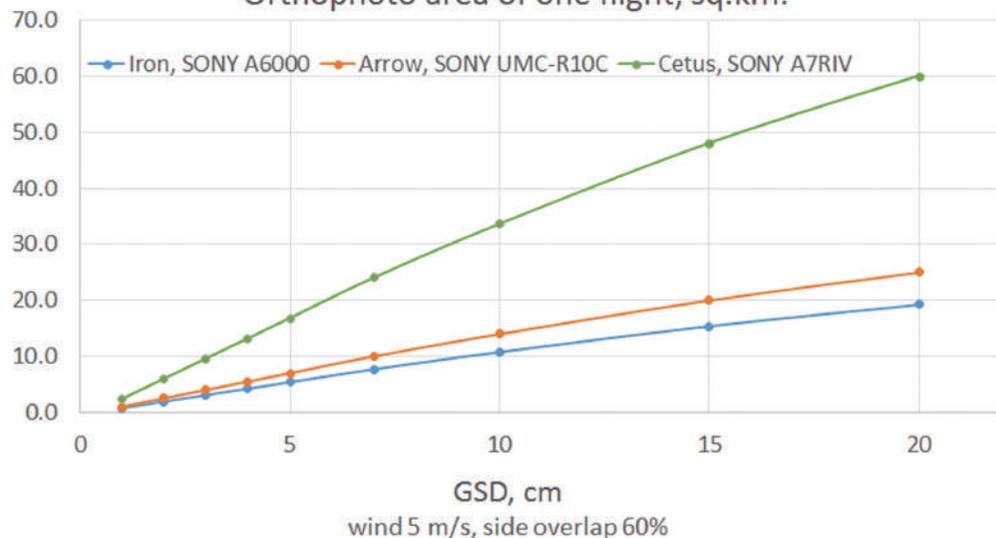
PROFESSIONAL APPLICATIONS

- aerial mapping 
- agricultural monitoring 
- forest monitoring 
- natural park monitoring 
- infrastructure objects inspections 
- pipelines & power lines monitoring 
- aerial reconnaissance 
- emergencies 
- surveillance & security 

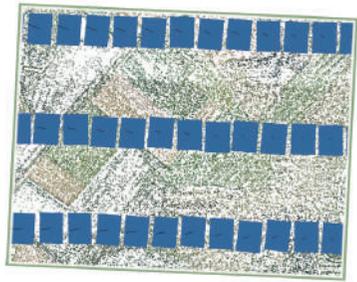
FLIRT UAV solutions combine the advantages of unmanned flying systems with **high standards of piloted specialized aircrafts**

FLIRT UAV
key advantages:

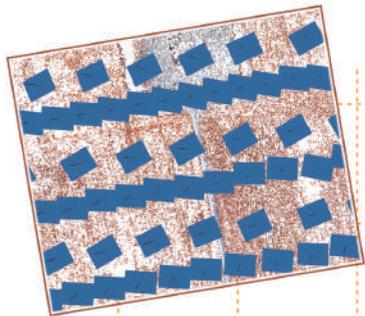
Orthophoto area of one flight, sq.km.



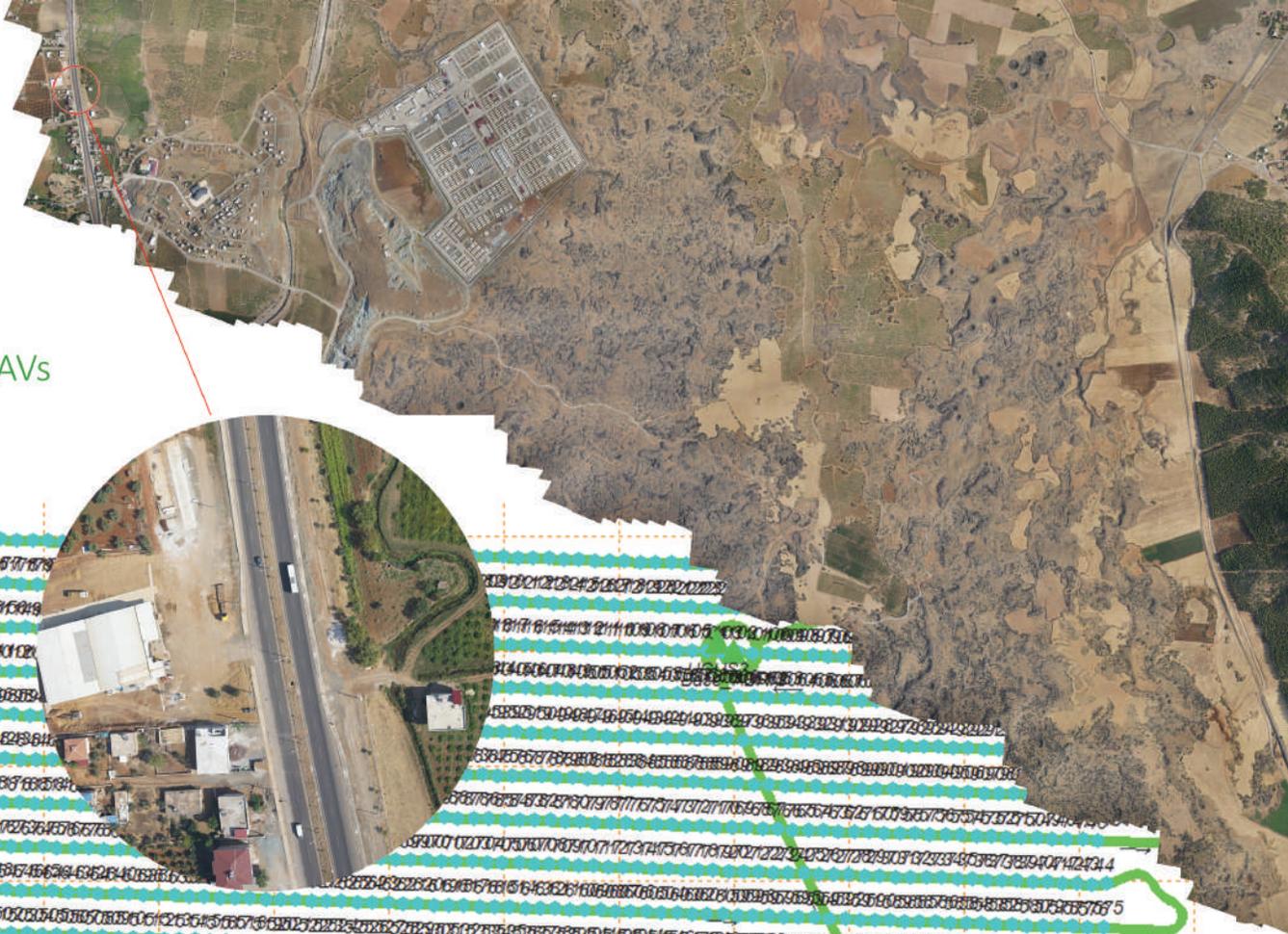
- own **smart FlightPlanner** for automatic mission creation
- **fully automatic flight** from takeoff to landing
- **point take-off** and landing
- **exceptional stability in flight** gives well oriented photos
- **wide range** of altitudes and flight speeds
- **long flight** endurance
- distance mission **control up to 40 km by radiolink**



well oriented photos from ABRIS FLIRT UAVs



pictures from many other UAVs



- easily changeable payload
- gyro stabilized camera gimbal
- durable hull composite construction additionally protected with the system of dampers
- doesn't require any special tools and no electrical coupling involved at assembly process
- automatic parachute landing system with emergency activation
- easily transported in specially designed light and convenient cases

FLIR ARROW



Arrow is a light-weight, hand-launchable model is specifically designed for aerial mapping, video surveillance and aerial reconnaissance

PROFESSIONAL APPLICATIONS

surveillance & security 

 emergencies

aerial reconnaissance 

 pipelines & power lines monitoring

infrastructure objects inspections 

 agricultural monitoring

forest monitoring 

 natural park monitoring

aerial mapping 

Light and mobile ARROW can be launched by one person and successfully operate in the most extreme and inaccessible places

ARROW
key advantages:

- Transporting, launch and controlling the mission itself can be easily carried out by a **single person on foot**
- Stable operation even at **high altitudes**
- **Simultaneous video monitoring and aerial mapping** with a high-resolution sensor during flight





SONY UMC-R10C
20 MP camera

FLIR DuoPro
thermal camera



Parrot SEQUOIA
multispectral camera



NextVision
thermal&optical PTZ camera



- Remotely controlled stabilized camera in the nose to get online **HD video up to 30 km ahead**

- High-precision aerial orthophoto and DTM without additional field work due to **precision GNSS L1/L2 PPK system onboard**

- **Covert aerial reconnaissance and surveillance**

from high altitude in zero radio emission mode in conditions of active interference and GPS signal suppression.

Technical characteristics:

- total system weight 8 kg
- up to 150 minutes in flight
- launch from hand or catapult
- parachute landing
- GSD from 0.5 cm
- up to 150 km flight distance
- up to 30 km HD video link
- wind tolerance up to 10 m/s

FLIR CETUS



Cetus is a highly-specialized aircraft designed for high precision aerial mapping of vast areas. Stabilized camera with full-frame sensor combined with great flight duration allows you to capture extremely big territories in single flight.

Due to **60MP full frame camera** and **big flight time** Cetus may capture up to **20 sq.km. of orthophoto** with **5 cm GSD** in one flight

CETUS
key advantages:

PROFESSIONAL APPLICATIONS

aerial mapping



agricultural monitoring

forest monitoring



natural park monitoring

infrastructure objects inspections



pipelines & power lines monitoring



- High adaptability for different types of tasks thanks to **interchangeable lens system**
- **Gyro stabilized gimbal** allows well-aligned series of pictures
- **Long distance flights** even with strong wind conditions

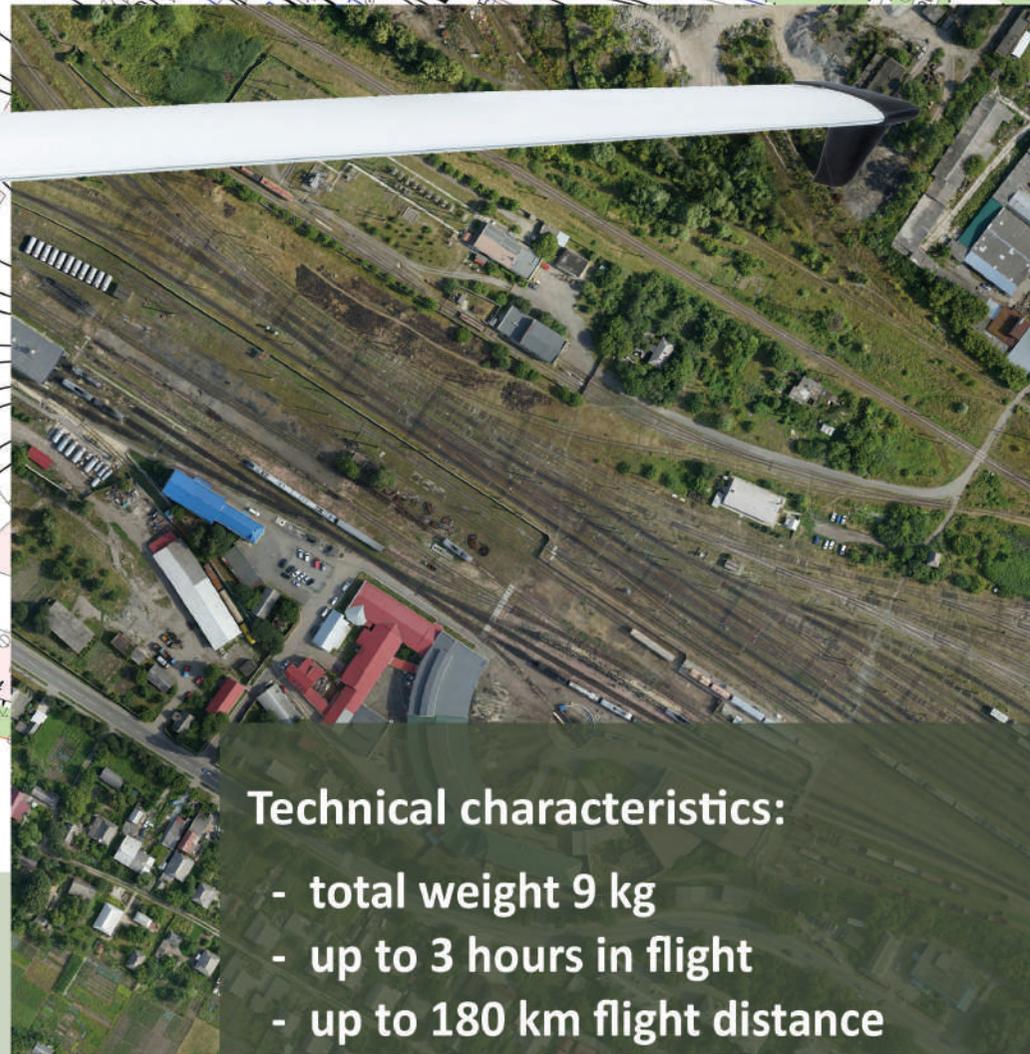


Parrot SEQUOIA
multispectral camera

SONY Alpha 7RIV
60MP full-frame camera

- High-precision aerial orthophoto and DTM without additional field works due to **precision GNSS L1/L2 PPK 20Hz system onboard**

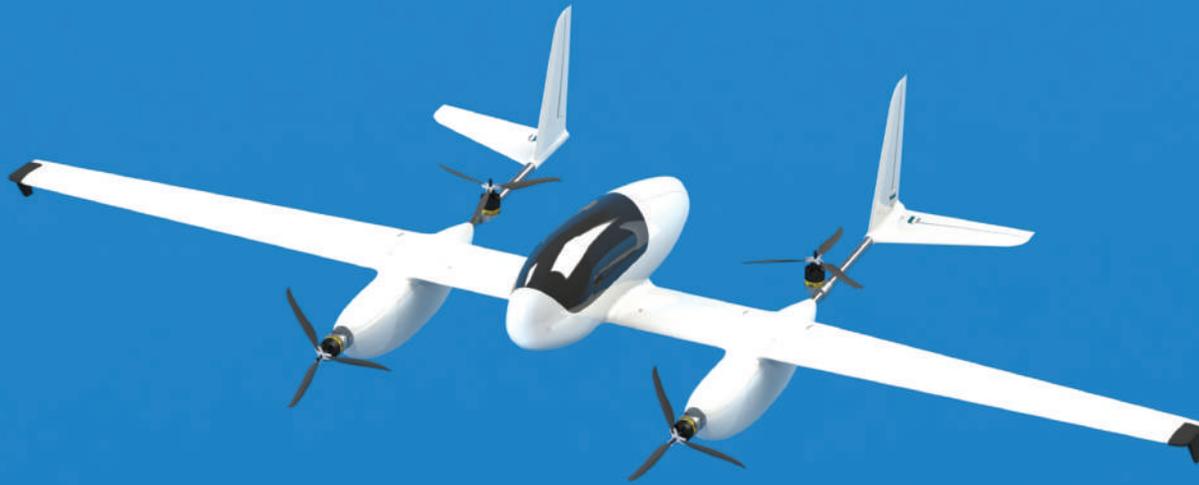
- **Simultaneous RGB and multispectral camera usage** for agricultural monitoring.



Technical characteristics:

- total weight 9 kg
- up to 3 hours in flight
- up to 180 km flight distance
- parachute landing + airbag protection system
- GSD from 1 cm
- up to 20 sq.km. with 5 cm GSD (60% side overlap)
- wind tolerance up to 12 m/s

FIIRI FALCON



Specially designed for professional industrial cameras and LiDAR scanners

PROFESSIONAL APPLICATIONS



LiDAR scanning

infrastructure objects inspections



pipelines & power lines monitoring

aerial mapping



natural park monitoring

forest monitoring

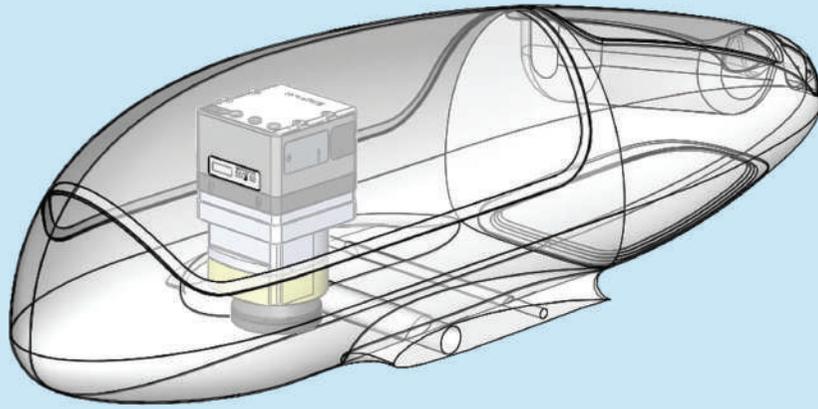


Powerful solution for professional sensors

FALCON
key advantages:



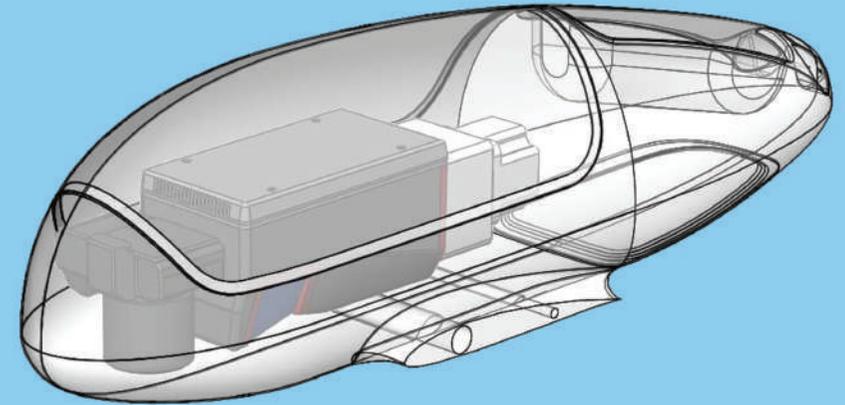
- Fully automatic vertical takeoff and landing **VTOL**
- Long flight time and range
- High reliable
- Automatic parachute rescue system
- Easily transported in a small case



PHASEONE



Phase One full frame ultra-high resolution aerial cameras **up to 150 MP**



Riegl VUX-120 LiDAR

Technical characteristics:

- total weight 14 kg
- up to 2.5 hour in flight
- up to 150 km flight distance
- wind tolerance up to 12 m/s
- flight speed 18...28 m/s

FIIRI BEETLE



PROFESSIONAL APPLICATIONS

surveillance & security



emergencies

aerial reconnaissance



pipelines & power lines monitoring

infrastructure objects inspections



agricultural monitoring

forest monitoring



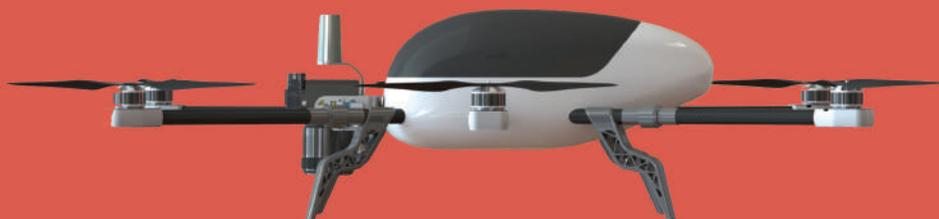
natural park monitoring

aerial mapping



Lightweight, fully automatic and versatile Beetle delivers ultra-high detail and accuracy

BEETLE
key advantages:



- easy changeable powerful sensors on the stabilized gimbal
- up to 61 MP full-frame camera
- interchangeable lens system
- PPK/RTK L1/I2 GNSS
- up to 40 min flight time
- up to 4 sq.km. orthophoto in one flight (7cm GSD, 80/60 side overlap)
- automatic rescue parachute system



- On-map specified takeoff and landing points, flight areas and routes
- Route, wide route and aerial mission types
- Multiple routes or areas planning in one flight
- Mission planning with smart following of the landscape
- Terassing along the mountain slope
- KML files support for import and export of mission flight data to Google Earth
- Calculation of the camera images footprints using terrain elevations and both shown in the software and exported to KML file and Google Earth

FLIGHTPLANNER

FlightPlanner helps you to easily create missions for fully-automated flights from take-off to landing. Smart software calculates the speed and direction of the wind in the area and the terrain specifics in real-time to calculate the flight and to plan your aerial mapping with extreme precision. The FlightPlanner also programs and manages the on-board equipment during flight.



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