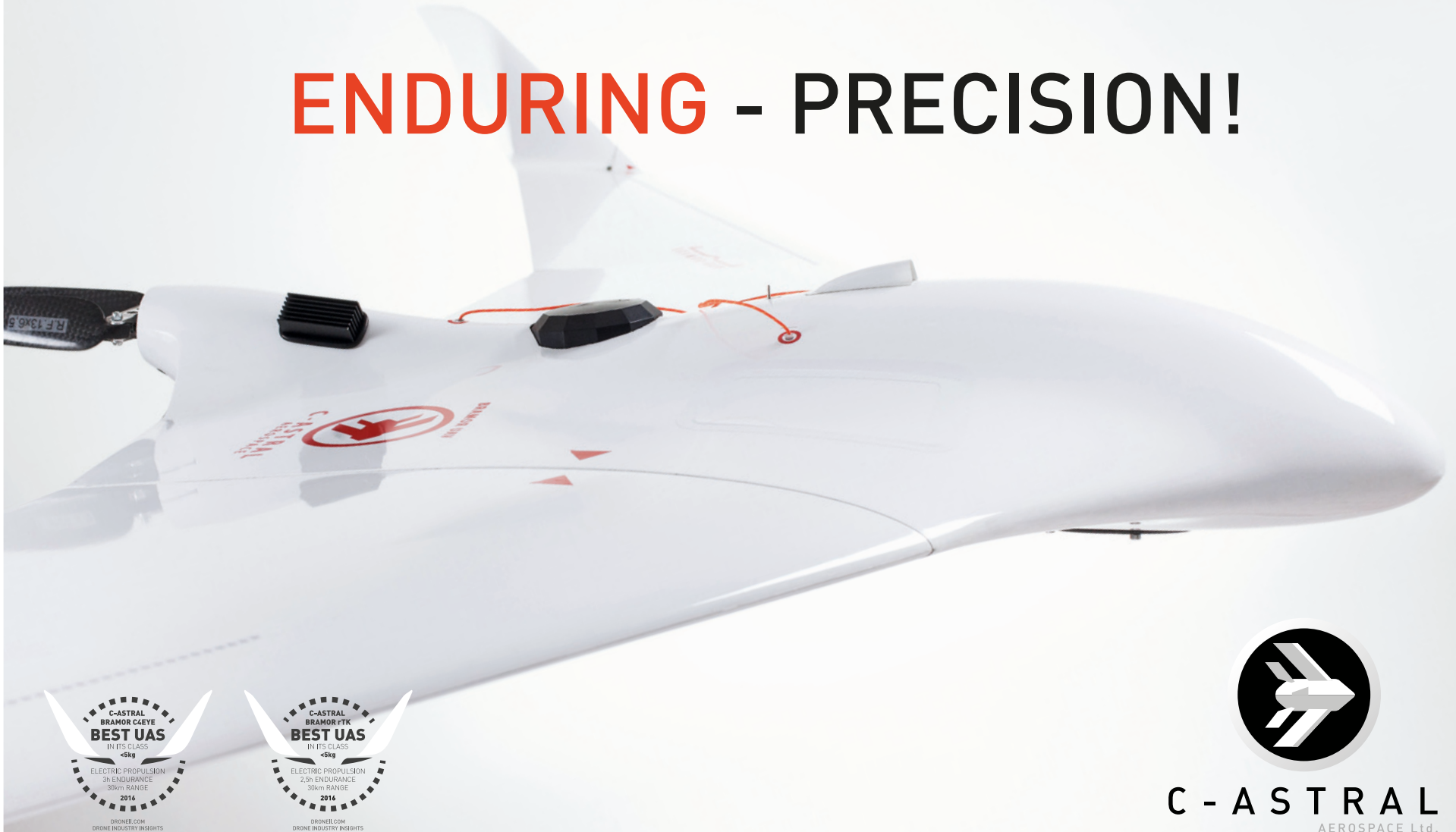
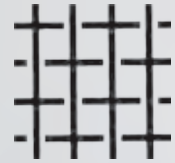


ENDURING - PRECISION!



C - A S T R A L
AEROSPACE Ltd.

C-ASTRAL Highlights



Composite Structures

Made from aerospace certified Kevlar, Vectran, Carbon & honeycomb. Performance, Style and Form instead of "styrofoam".



Advanced Aerodynamics

Blended Wing Body (BWB) airframes with large payload capacity, highest efficiency and long endurance for better productivity. Unrivaled.



Precise Remote Sensing

High precision optics and multiple sensor options with INS data logging electronics, enabling a fast, seamless and software agnostic processing chain. ENDURING - PRECISION!



Global Tools Need Global Support

The C-ASTRAL customer service team is here to assist, support and problem solve. 24/7, 365.



C-ASTRAL Family

ATLAS UAS

HAND LAUNCHED



PRE ORDER **Q1-2016** -
DELIVERIES STARTING IN **Q3-2016!**

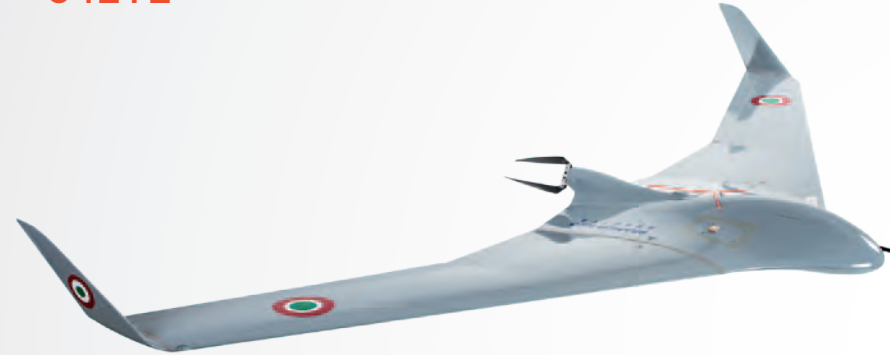
The 2015 **ATLAS** (Advanced Technology Light Acquisition System) is currently the most compact member of the C-ASTRAL UAS family weighing only **2.0 kg!**

Developed over the last few years by C-ASTRAL X-WORKS, this hand launched system can carry an array of modular sensors, ranging from visible light, infra red, multispectral to custom detectors. The ATLAS excels with a class leading endurance and modularity that enables quick reconfigurations and multiple functionality in a safe, compact, light, hand launched package, supported by a new avionics and guidance solution that is completely compatible with the current BRAMOR family ground segments.

BRAMOR UAS

CATAPULT LAUNCHED

C4EYE



The field proven **BRAMOR C4EYE** UAS line is appropriate for operations where real-time or near real time video observation and surveillance capability is of utmost importance. With an endurance up to 3 hours and a standard datalink of 30 km, the C4EYE is easily the most capable and affordable small UAS in its class in the world.

C4EYE APPLICATIONS

- ↳ Wildfire management
- ↳ Environmental monitoring
- ↳ Infrastructure control
- ↳ Civil defense
- ↳ Long range (30 km) real-time situational awareness
- ↳ Fire control
- ↳ Over the hill observation (LOS)
- ↳ Night surveillance
- ↳ Classical ISR
- ↳ Convoy following
- ↳ Target detection and tracking
- ↳ Low intensity conflict zone control
- ↳ Search and rescue missions

rTK



The **BRAMOR rTK** (GNSS PPK - Post Processing Kinematic) UAS is ideally suited for surveying and remote sensing applications that need a quick and industry leading high precision set of results down to sub-centimeter level also in the absence of a grid of ground control points.

ATLAS, rTK, gEO APPLICATIONS

- ↳ DSM, Pointcloud orthophoto mapping, Volume calculations
- ↳ IED detection
- ↳ Change detection
- ↳ Wildfire management and situational awareness
- ↳ Environmental monitoring
- ↳ Infrastructure control
- ↳ Woods and landscape management
- ↳ Ecological monitoring and sensing
- ↳ Flood monitoring
- ↳ Civil defense
- ↳ Civil counter reconnaissance
- ↳ Agriculture
 - Health and vigor of crops
 - Detection of stress areas
 - Plant counting
 - Pesticide/herbizide mana

gEO



The industry leading **BRAMOR gEO** UAS family is suited for surveying and remote sensing applications in areas where replacement of the standard surveying methods is needed. It is capable of measuring precise results down to 1 cm with a Ground Sampling Distance that starts at 0.9 cm.



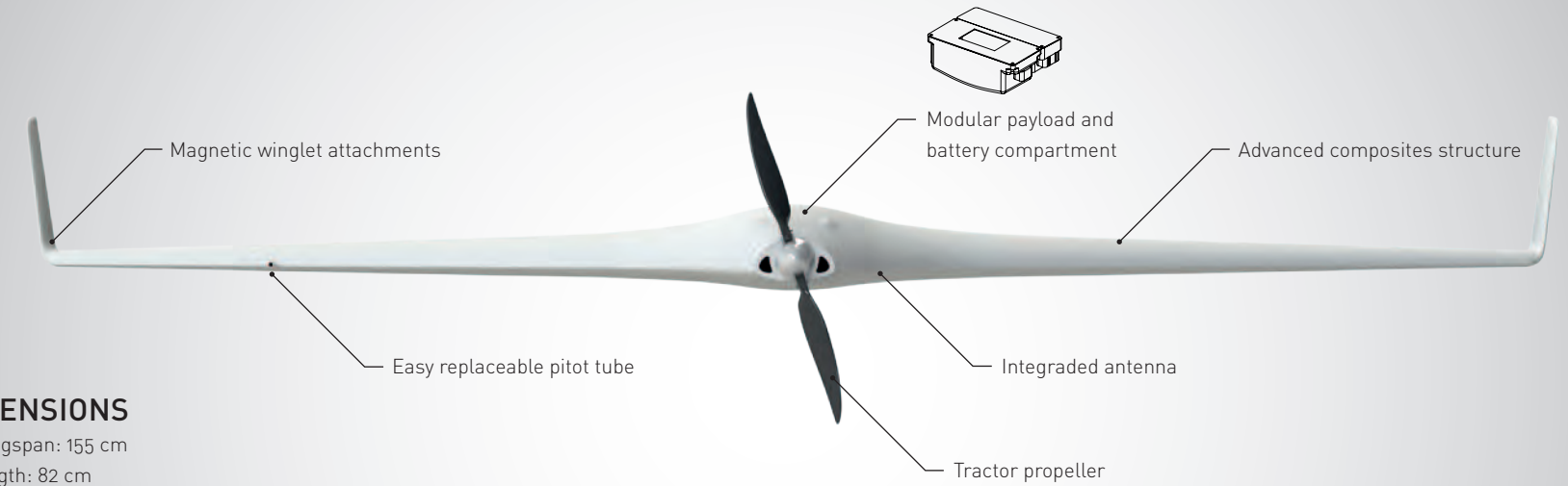
C - A S T R A L
AEROSPACE Ltd.

Advanced Technology Light Acquisition System



“Hand launched takeoff, autonomous flight and parachute landing.”

ATLAS



DIMENSIONS

- ∨ wingspan: 155 cm
- ∨ length: 82 cm
- ∨ central module length: 61 cm
- ∨ T/O Weight: 2.0 kg

FEATURES

- ∨ Safe hand launch
- ∨ Autonomous guidance from take off to landing
- ∨ Up to 70 min Endurance
- ∨ Automatic parachute landing
- ∨ Orography capable flight planning with GSD maintenance over slopes, hills and valleys
- ∨ Rain proof
- ∨ Wind resistance 30 knots
- ∨ Operational temp -25°C to +45°C
- ∨ Rugged check-in luggage size transport form factor

Hand launched
Oblique
Modular
Ergonomic
Reconfigurable
Universal
Networked

PRE ORDER Q1-2016 - DELIVERIES STARTING IN Q3-2016!

ATLAS is compact, affordable and easy to use, but capable of complex missions in the most demanding conditions.
ENDURING – PRECISION!



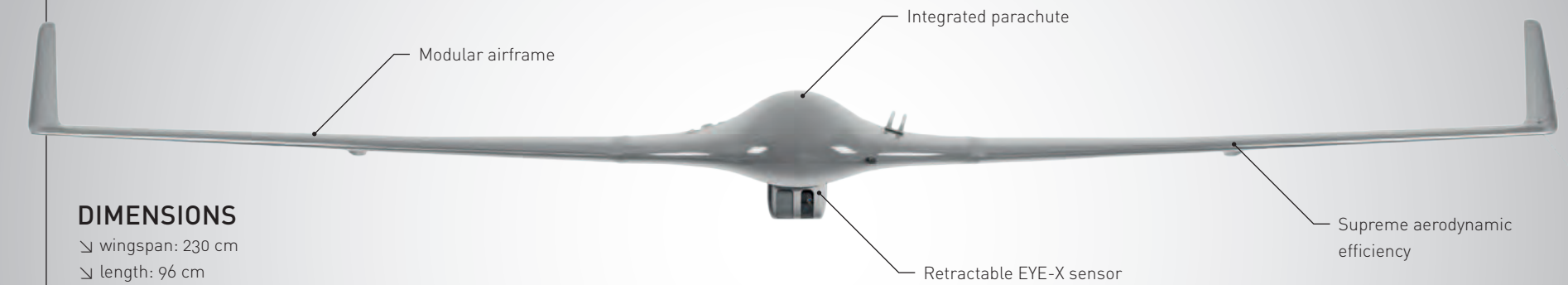
C - A S T R A L
AEROSPACE Ltd.

Superior situational awareness



“The Ultimate C4ISR Solution – easily the most capable and affordable small UAS in its class in the world!”

BRAMOR C4EYE



DIMENSIONS

- ∨ wingspan: 230 cm
- ∨ length: 96 cm
- ∨ central module length: 67 cm
- ∨ T/O Weight: 4.5 kg

FEATURES

- ∨ In-flight waypoint management
- ∨ Camera, Altitude, and Target prosecution guidance modes
- ∨ One person operation
- ∨ Catapult takeoff
- ∨ Accurate Parachute Landing in a 30 m x 30 m zone
- ∨ Convoy following capability
- ∨ Robust fail-safe system for maximum safety
- ∨ Wind penetration up to 30 knots
- ∨ Flight ready in less than 5 min
- ∨ Ability to track, Geo-register or Lock targets
- ∨ Video/Data range up to 30 km
- ∨ AN/PVS-7B/D, AN/PVS-14 and AN/AVS-9 night vision enabled optional IR beacons
- ∨ AES and other proprietary crypto solutions optional

The field proven BRAMOR C4EYE UAS line is appropriate for operations where real-time or near real time video observation and surveillance capability is of utmost importance. With an endurance of up to 3 hours and a standard datalink of 30 km.

Precision matters



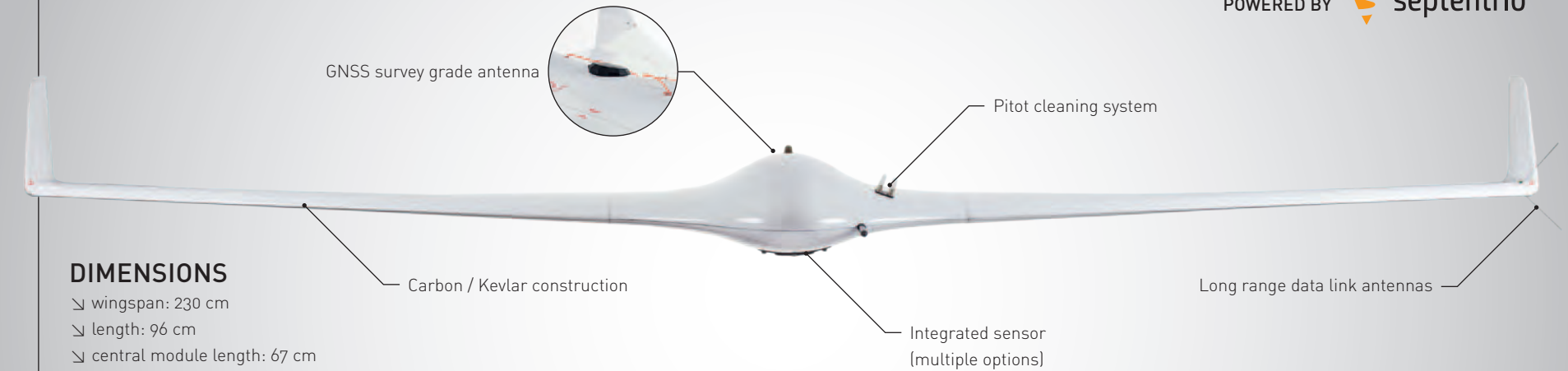
POWERED BY  **septentrio**

“Data acquisition in the absence of a preplaced grid of ground control points. Efficiency, precision, safety and productivity.”

BRAMOR rTK



POWERED BY  **septentrio**



DIMENSIONS

- ∨ wingspan: 230 cm
- ∨ length: 96 cm
- ∨ central module length: 67 cm
- ∨ T/O Weight: 4.7 kg

FEATURES

- ∨ 100% Autonomous
- ∨ Automatic parachute landing
- ∨ Orography capable flight planning with GSD maintenance over slopes, hills and valleys
- ∨ Safe catapult launch
- ∨ Rain proof
- ∨ Wind resistance 30 knots
- ∨ Operational temp -25°C to +45°C

Mapping area in one flight

- ∨ 15 km² / 900 m AGL / 12 cm GSD
- ∨ 2 km² / 100 m AGL / 1.3 cm GSD

rTK and post processing specs

- ∨ Absolute dataset accuracy down to 1.5cm
- ∨ 24.3 Megapixel Camera
- ∨ GSD sub cm @ 70m AGL
- ∨ Survey grade GNSS antenna onboard
- ∨ L1&L2 (L5 ready) GNSS receiver
- ∨ GPS, Glonass, Beidou, Galileo ready

rTK Survey modes

- ∨ Known point base station
- ∨ Unknown point base station
- ∨ Virtual Reference station
- ∨ Compatible with RINEX Base data

The **BRAMOR rTK** (GNSS PPK - Post Processing Kinematic) UAS is ideally suited for surveying and remote sensing applications that need a quick and industry leading high precision set of results down to sub-centimeter level also in the absence of a grid of ground control points. Autonomous takeoff, up to 3 hr flight, parachute landing.



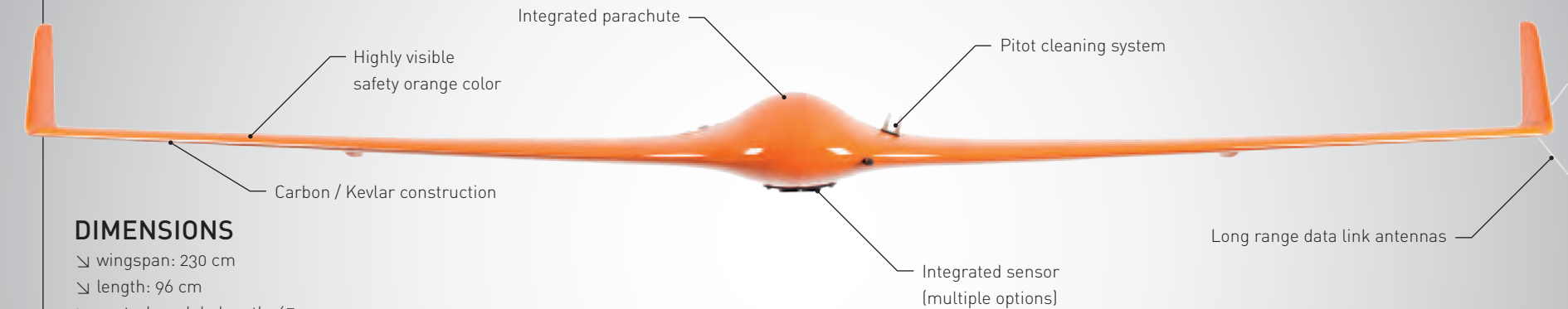
C - A S T R A L
AEROSPACE Ltd.

Advanced and reliable mapping solution



“1.3 cm GSD at 100 m AGL!!!
Unrivalled dataset accuracy.”

BRAMOR gEO



DIMENSIONS

- ✎ wingspan: 230 cm
- ✎ length: 96 cm
- ✎ central module length: 67 cm
- ✎ T/O Weight: 3.8 kg

FEATURES

- ✎ Create Georeferenced maps, DTM, DSM and 3D models
- ✎ Map over 10 sq km in a single flight
- ✎ Simple flight preparation procedures
- ✎ Simple mission planning
- ✎ Reliable catapult takeoff and parachute landing
- ✎ More than 20.000 hours in the air and still flying
- ✎ 3 hr Long endurance option

PRODUCTION VERSIONS

- ✎ **gHY** equipped with Hyperspectral sensor
- ✎ **gDS** equipped with dual sensor RGB + Multispectral or RGB with NIR
- ✎ **gMS** equipped with laser mass spectrometer for gas detection
- ✎ **aGRO** equipped with Multispectral sensor

The industry leading BRAMOR gEO UAS family is suited for surveying and remote sensing applications in areas where replacement of the standard surveying methods is needed.

It is capable of measuring precise results down to 1 cm with a Ground Sampling Distance that starts at 0.9 cm.

Customized systems for a variety of applications in aerophotogrammetry and remote sensing.



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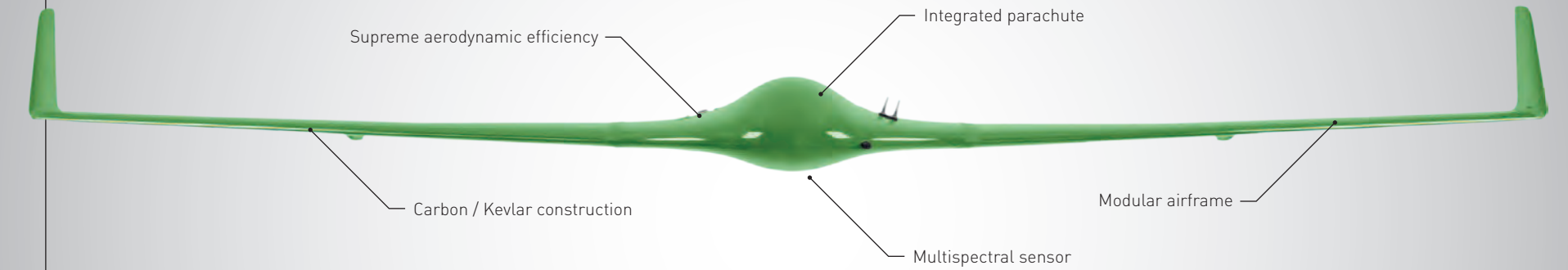
A Revolutionary Crop/Field Vision Instrument



* Standard aGRO airframe color is white.
Custom color options upon request.

“Plant health measurement, ——— Agricultural remote sensing applications”

BRAMOR aGRO



DIMENSIONS

- ∨ wingspan: 230 cm
- ∨ length: 96 cm
- ∨ central module length: 67 cm
- ∨ T/O Weight: 3.8 kg

FEATURES

- ∨ 100% Autonomous
- ∨ Automatic parachute landing
- ∨ Map over 10 sq km in single flight
- ∨ 8.0 cm/pixel (per band) at 120m AGL
- ∨ 1 capture per second (all bands)
- ∨ User-friendly interface

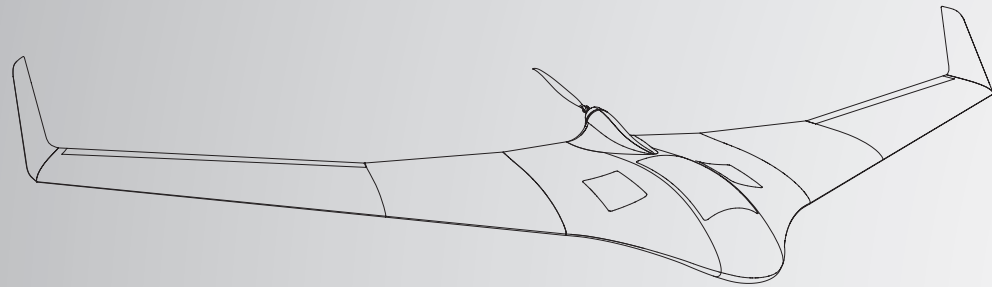
The industry leading BRAMOR aGRO UAS is suited for agriculture surveying and remote sensing. It is equipped with an advanced Multispectral sensor, capable of acquiring data in the Blue, Green, Red, RedEdge and Near Infrared spectral bands, with a Ground Sampling Distance of 8.0cm/pixel (per band) at 120m AGL!



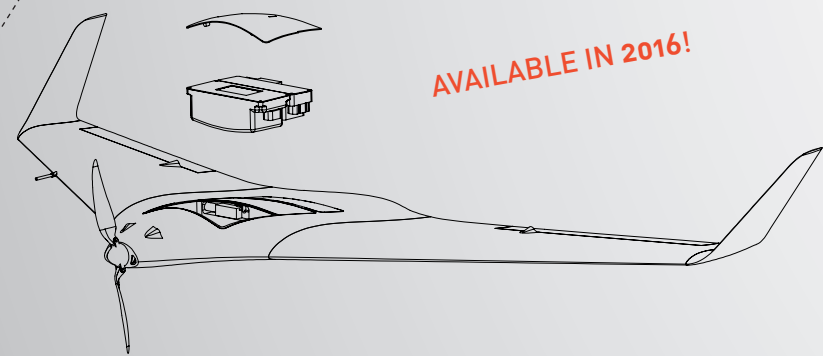
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VISION UNLIMITED!

BRAMOR



ATLAS



C4EYE



EYE-X EO/IR/LI Gimbal

10 MP ePTZ CMOS RGB visible light sensor
 LWIR Uncooled bolometer core FLIR QUARK 640
 2x, 4x, 8x zoom capability
 Full Frame Rate 7.5 Hz (NTSC); 8.3 Hz (PAL)
 Pixel Pitch 17 µm
 Spectral Band 7.5-13.5 µm
 QUARK VPC module
 Brushless electric motor
 Pan 360°, Tilt 90°
 Gyro + Software continuous stabilization
 300mW laser illuminator (LI) available at 400-2000nm
 Image stabilization
 Target tracking
 Target geo-location

Single sensor gEO/rTK



C-ASTRAL RGB sensor

24.3 MP

C-ASTRAL CIR sensor

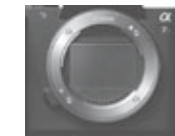
24.3 MP

(630 nm, 720 nm or 850 nm)

C-ASTRAL NDVI sensor

24.3 MP

(NIR, Vegetation Monitoring,
 Vegetation Health)



C-ASTRAL RGB sensor

42.4 MP

Fullframe camera

AVAILABLE IN 2016!



Multispectral sensors (4-band or 5-band)

RedEdge:

Narrowband filters for Blue, Green, Red,
 RedEdge, Near-Infrared
 Ground Sample Distance 8.0 cm/pixel
 (per band) at 120 m (~400 ft) AGL
 Capture Speed 1 per second
 (all bands), 12-bit RAW



MultiSpec 4C:

Advanced, lightweight, provides accurate
 multi-band data for agricultural remote
 sensing applications.
 Spectral Bands Narrowband filters for
 Green, RedEdge, Near-Infrared
 Ground Sample Distance 10.0 cm/pixel
 (per band) at 120 m (~400 ft) AGL
 Capture Speed 2 per second
 (all bands), 10bit RAW Tiff

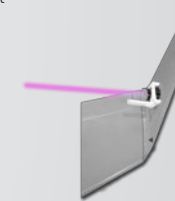
gHY



Hyperspectral imager

VIS-VNIR Snapshot
 F-number: ~ 2,8
 Focal length: 9 mm
 Ground Pixel: 6,5 cm at 100 m altitude
 Default Spectral Range: 500-900 nm
 Spectral resolution: ↑10 nm, FWHM
 Spectral Step: 1 nm
 Spectral Bands: ~ 380 max
 Dynamic Range: 12 bits
 Exposure Time: 0.06-3000 ms
 Frame Rate: 30 frames/s
 Max Image Dim: 1010 x 1010 pix

gMS



GasFinder UAS Analyser

Advanced laser mass spectrometer.
 for pipeline and environmental monitoring.
 Methane detection down to 0.5 ppm
 Detection of +7cm pipeline subsidence
 Tunable laser for detection of other gases



C-Astral µEYE

Stabilized video gimbal



C-ASTRAL RGB sensor

20.4 MP



C-ASTRAL NDVI sensor

20.4 MP

(NIR, Vegetation Monitoring,
 Vegetation Health)



Multispectral sensors (4-band or 5-band)

RedEdge:

Narrowband filters for Blue, Green,
 Red, RedEdge, Near-Infrared
 Ground Sample Distance 8.0 cm/pixel
 (per band) at 120 m (~400 ft) AGL
 Capture Speed 1 per second
 (all bands), 12-bit RAW



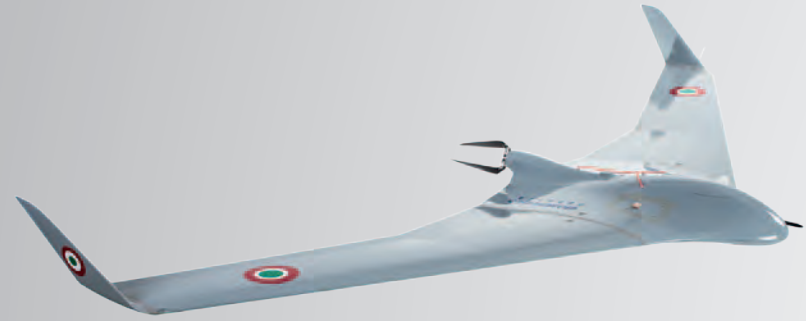
MultiSpec 4C:

Narrowband filters for Green,
 RedEdge, Near-Infrared
 GSD 10.0 cm/pixel at 120 m (~400 ft) AGL
 Capture speed 2 per second,
 10 bit RAW Tiff



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 AEROSPACE Ltd.

UNLIMITED PERFORMANCE!

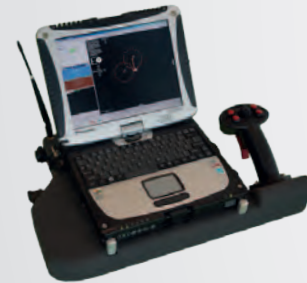


Basic Bramor C4EYE system package consists of:

- ↳ BRAMOR C4EYE airframe
- ↳ KJ-200 GCS
- ↳ Several other GCS configurations (dual screen etc.) are optional
- ↳ Flight case transportation system
- ↳ CAT 1 catapult launcher
- ↳ ASTRALTRACK tracking antenna
- ↳ Recovery parachute (2 units) with protective packs
- ↳ Set of basic spares (carbon tubes, small material, 1 extra propeller)
- ↳ Battery charger (including cables for GCS and Li-Po)
- ↳ Documentation & Manuals

Optional enhancement:

- ↳ GCS - ADV2X Portable dual screen
- ↳ Touchscreen option with composite video input
- ↳ AC/DC adapter
- ↳ Power supply, External VGA option for portable GCS



Basic BRAMOR gEO/rTK system package consists of:

- ↳ BRAMOR gEO/rTK airframe
- ↳ KJ-100 GCS
- ↳ Flight case transportation system
- ↳ CAT 1 elastic launching system
- ↳ Recovery parachute (2 units) with protective packs
- ↳ Set of basic spares (carbon tubes, small material, 1 extra propeller)
- ↳ Battery charger (including cables for GCS and Li-Po)
- ↳ Training in Slovenia (excluding lodging & transportation costs)
- ↳ Documentation & Manuals



PRE ORDER Q1-2016 - DELIVERIES STARTING IN Q3-2016!

Basic ATLAS system package consists of:

- ↳ ATLAS airframe
- ↳ GCS SX101 Bluetooth™ stand alone magnetic GCS unit
- ↳ Flight case transportation system
- ↳ optional: GCS SX3000 Core i5 processor based MILSPEC TOUGHPAD/GCS combination (includes SX101)
- ↳ Recovery parachute (2 units) with protective packs
- ↳ Set of basic spares
- ↳ Battery charger (including cables for GCS and Li-Po)
- ↳ Documentation & Manuals



BRAMOR OPTIONAL ENHANCEMENTS



EMERGENCY BEACON LOCATOR

Find the location of your system with a built-in VHF beacon and handheld receiver.



ASTRALTRACK Tracking Antenna

Tracking technology for 30 km range DATA and VIDEO transmission.

REACH-30 video TX and RX units
2.4 GHz, 30 km LOS video link



CAT 2 Pneumatic Launching System

For cold weather operations (-20°C).
Aluminum lightweight folding pneumatic catapult including a compressor & an electronic valve.



ADS-B S-Mode Transponder

Make your UAV visible to other cooperating traffic and air traffic control.



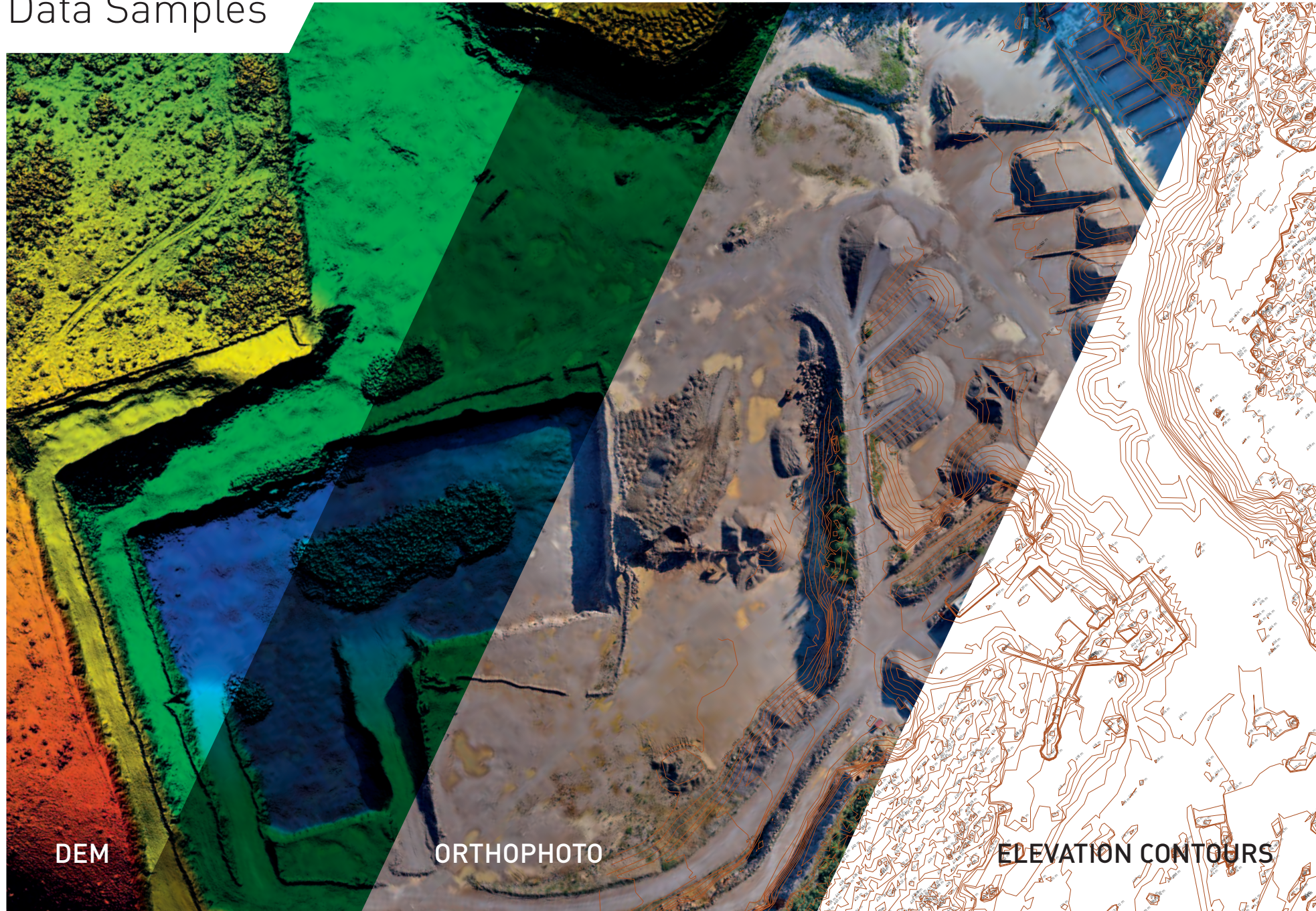
Water resistant Backpack

Heavy duty whole system water resistant carrying backpack for gEO, rTK and C4EYE systems.



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Data Samples



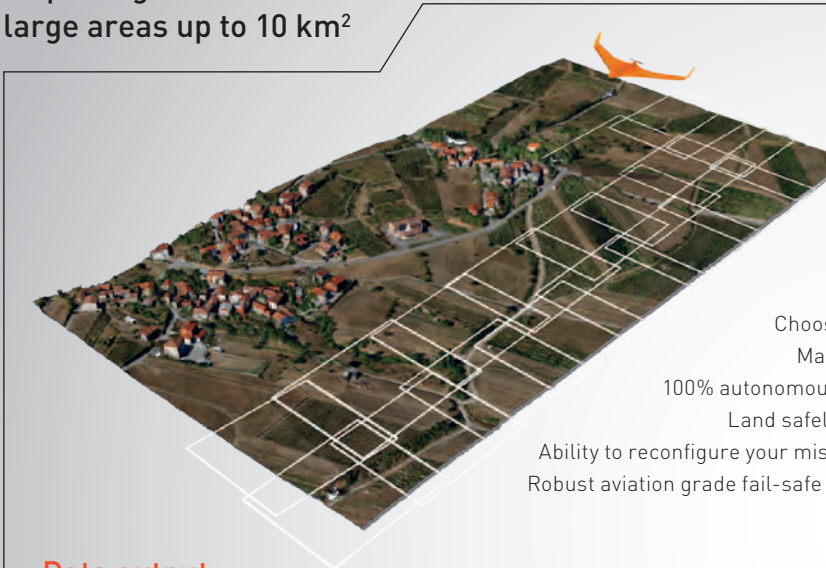
DEM

ORTHOPHOTO

ELEVATION CONTOURS

C-ASTRAL Surveying Systems

Map and georeference large areas up to 10 km²



Choose your project geometry
Map rivers, roads, pipelines
100% autonomous from takeoff to landing
Land safely with parachute landing
Ability to reconfigure your mission and landing in flight
Robust aviation grade fail-safe systems and procedures

Working phases:

- ↳ Flight planning
- ↳ Data acquisition
- ↳ Image processing

Sensor options:

- ↳ FULL FRAME 42.4Mp sensor (Q2 2016)
- ↳ RGB 24.3 Mp
- ↳ CIR 24.3 Mp 560-850 nm
- ↳ Four band, five band or seven band multispectral camera
- ↳ RIKOLA Hyperspectral 500-900 nm Spectral Step - 1 nm

C-ASTRAL systems are fully compatible with the following image registration and processing software packages:

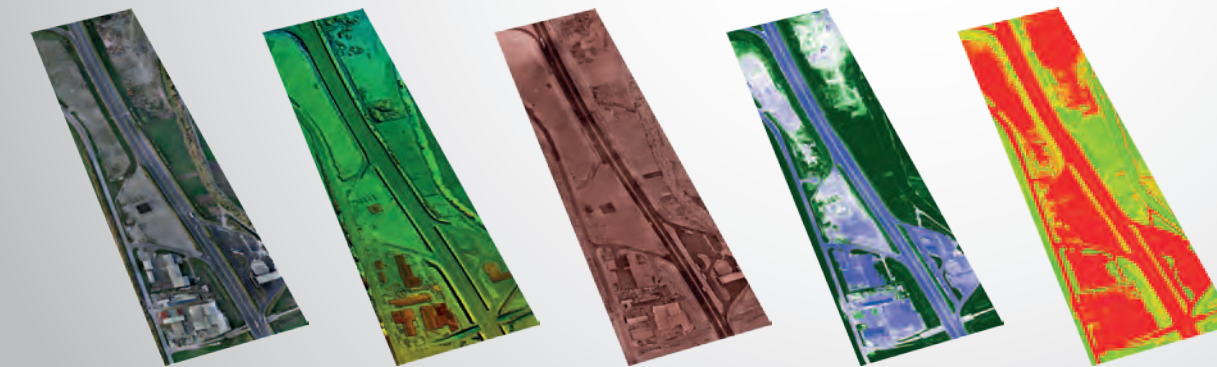
- ↳ EnsoMOSAIC
- ↳ PIEnearing
- ↳ Agisoft Photoscan
- ↳ Pix4D Mapper
- ↳ 3D Survey
- ↳ Menci and other software packages

Data output:

Ortho

DSM and pointcloud

REMOTE SENSING CAPABILITIES



- ↳ NDVI (Normalized difference Vegetation Index)
- ↳ RedEdge NDVI
- ↳ RedEdge and Red NDVI
- ↳ SR Simple Ratio index
- ↳ EVI (Enhanced Vegetation Index)
- ↳ EVI 2 (Enhanced Vegetation Index 2)
- ↳ PSRI (Plant Senescence Reflectance Index)
- ↳ PSRI NIR (Plant Senescence Reflectance Index NIR)
- ↳ CRI 1 and 2 (Carotenoid Reflectance Index 1 and 2)
- ↳ ARI 1 and 2 (Anthocyanin Reflectance Index 1 and 2)
- ↳ Simple Band Ratios (B-RE, G-RE, R-RE)

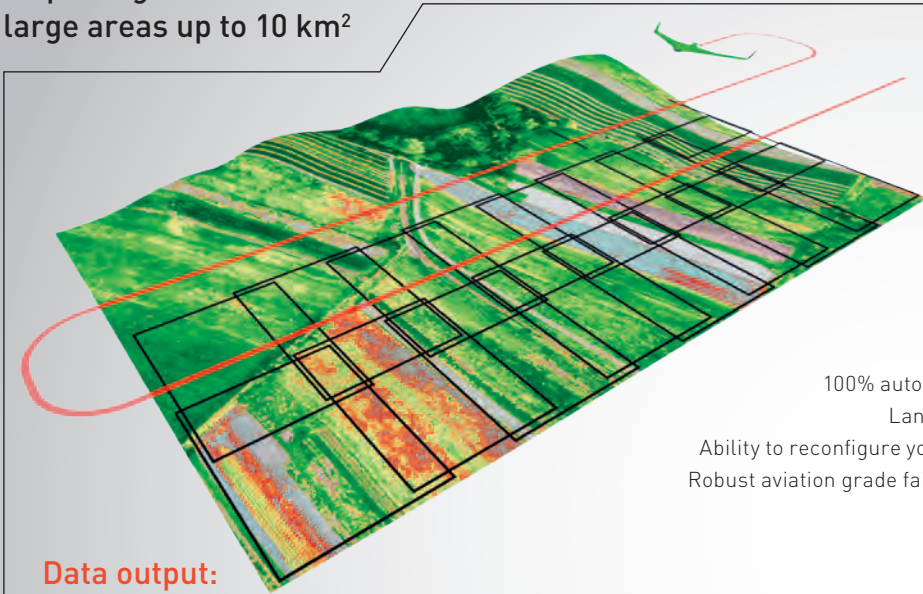
"Integrated precision AHRS data-logging board for best mosaic accuracy."



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C-ASTRAL Agriculture System

Map and georeference large areas up to 10 km²



Choose your project geometry
100% autonomous from takeoff to landing
Land safely with parachute landing
Ability to reconfigure your mission and landing in flight
Robust aviation grade fail-safe systems and procedures

A Sensor Dedicated To Agriculture:

4 Wavelengths, Precisely Selected and Relevant For Sensing Crops

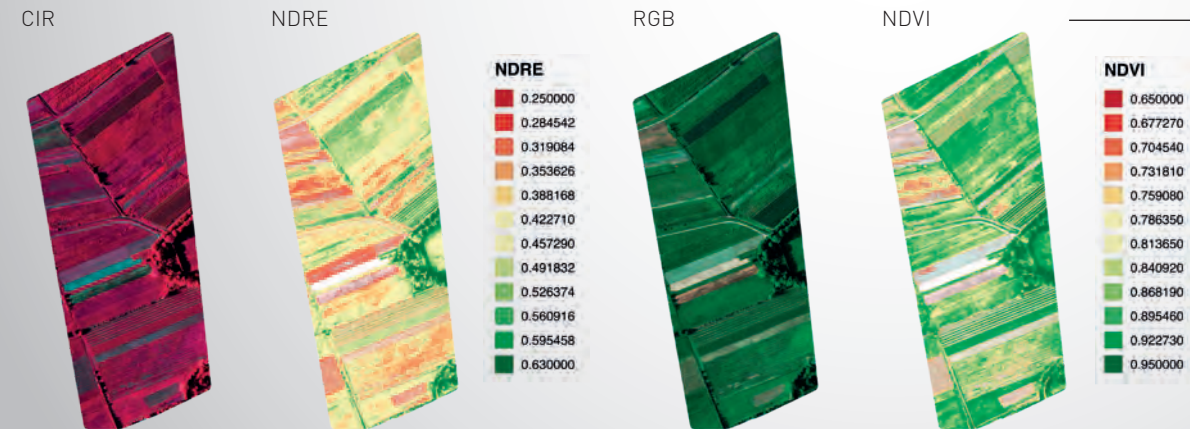
The AIRINOV multiSPEC 4C sensor measures the reflected light from crops in 4 different spectral bands: green, red, red edge and NIR
The integrated lux meter measures light intensity and colour to allow correction of sun ray reflections.
The fast scoring system enables to acquire up to 10 view-points for each spot in the field

Images resolution according to the flight altitude, for instance: 165 ft flight = 5 cm/px image and 500 ft flight = 15 cm/px image

IMAGE PROCESSING OPTIONS:

Fertilisation recommendations for wheat and rapeseed, by detection of agronomic indicators (e.g. dry biomass and Nitrogen absorbed)
- Quantified, precise fertilisation recommendation (in U of N / ha)

Data output:



“A revolutionary crop/field vision instrument”

C-ASTRAL Change Detection

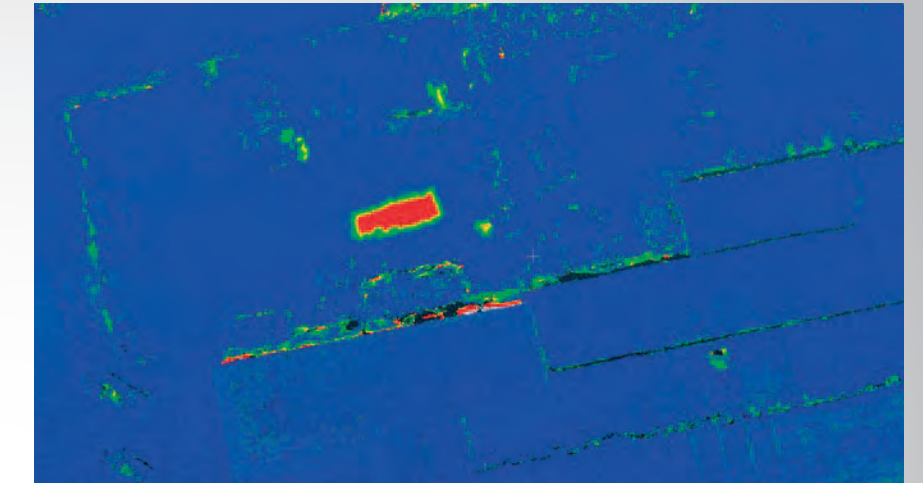
SCENE 1 POINT CLOUD



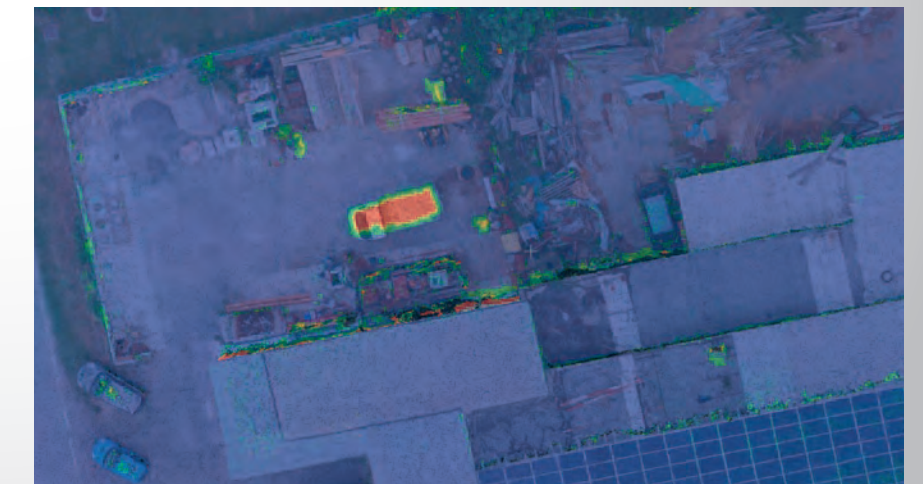
SCENE 2 POINT CLOUD



DETECTION OF ANOMALIES



MERGED VIEW



“Advanced intelligence gathering instrument for gEO or rTK systems”

Possible application / data processing solutions for gEO or rTK systems



C - A S T R A L
AEROSPACE Ltd.



C-ASTRAL Aerial surveying systems bring unrivaled accuracy to your operational workflow.



C - A S T R A L
AEROSPACE LTD.

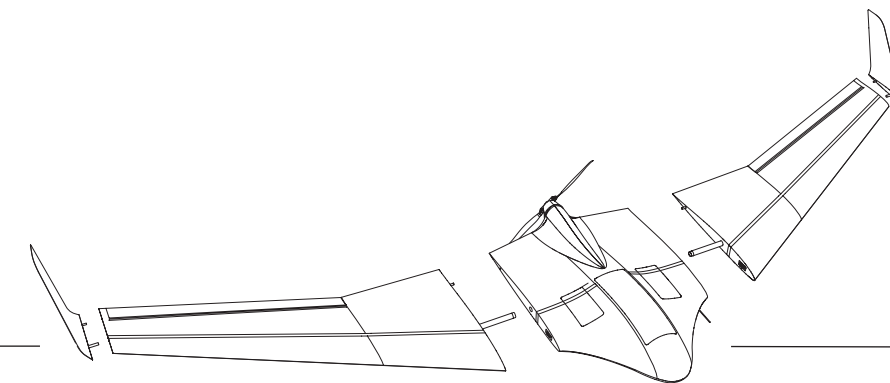
C-ASTRAL Technical data

COMMERCIAL DESIGNATION	ATLAS <i>Available in 2016</i>		BRAMOR <i>C4EYE</i>		BRAMOR <i>gEO / rTK</i>			
SENSING TECHNOLOGY	C-Astral μ EYE	20.4 MP RGB, CIR or NDVI	RedEdge Multispectral	C-Astral EYE-X	Single sensor 24.3 RGB/CIR/NDVI or Multispectral - aGRO	42.4MP Fullframe camera	<i>Available in 2016</i> Dual sensor - gDS 24.3MP RGB + RedEdge Multispectral	gHY Hyperspectral
WINGSPAN	155 cm			230 cm				
LENGHT	82 cm			96 cm				
AIRCRAFT TYPE & AIRFRAME	fixed wing, blended wing body configuration, advanced composites airframe, modular payload bay			fixed wing, blended wing body configuration, kevlar reinforced carbon and vectran composite airframe				
AVIONICS	Lockheed Martin and C-ASTRAL ORTHOelectronics							
PROPULSION	C-Astral Brushless electric							
MTOW	2.0 kg			3.8 - 4.7 kg				
PAYLOAD	0.3 kg			0.6 - 1.0 kg				
CRUISE SPEED	16 m/s							
Vne	30 m/s							
TAKEOFF SYSTEM	AUTONOMOUS / HAND LAUNCHED			ELASTIC LAUNCHER / PNEUMATIC LAUNCHER				
LANDING AREA	30 m x 30 m							
LANDING	PARACHUTE							
SERVICE CEILING	up to 5000 m AMSL							
VIDEO & DATALINK RANGE	Up to 30 km LOS with the ASTRALTRACK tracking antenna							
ENDURANCE	up to 70 minutes			up to 3 hours (demonstrated)	gEO LR - up to 3 hours / gEO - up to 1.5 hour / rTK - up to 2.5 hours (demonstrated)			
T/O READINESS	System T/O ready in less than 3 minutes			System T/O ready in less than 5 minutes				
OPTIONS	navigation lights, strobe convoy following target tracking real time target coordinate estimation (3 m-5 m accuracy) multiple air vehicle control from single GCS			navigation lights, strobe AN/PVS-7 B/D, AN/PVS-14 and AN/AVS-9 compatible IR beacons convoy following target tracking target speed estimation real time target coordinate estimation multiple air vehicle control from single GCS air pollution, radiation, hazardous and non-hazardous gas sensors ADS-B transponder				
TRANSPORT	1 MILSPEC backpack and/or rugged case							
OPERATOR REQ	one operator			one or two operators				
FLYING	100% autonomous from takeoff to landing							
GIMBAL CONTROL	flight stick control							
ORTHOPHOTO CONTROL	100% autonomous, multiple orthophoto mission geometries possible in 1 flight, reprogrammable on the fly while vehicle in the air							
MANUAL FLIGHT CONTROL	optional flight stick							
GCS ENDURANCE	up to 10 h							
EMERGENCY FAIL-SAFES	yes, user configured							
TRAINING	5 day training in Slovenia provided to all customers, special training arrangements are possible							



C-ASTRAL is your dynamic aerospace and unmanned systems partner!

Sales Partners



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CANADA

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ITALY

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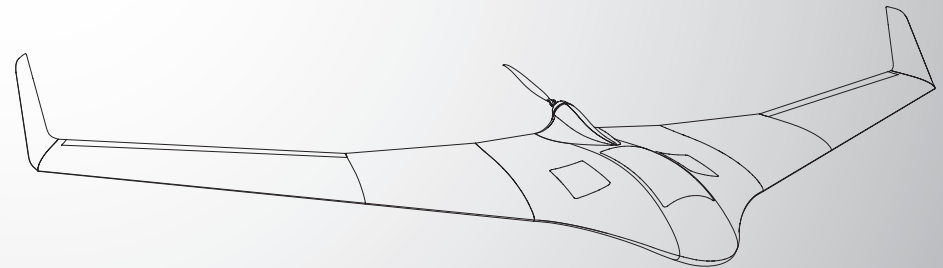
C-Astral is an aerospace enterprise and solution provider based in Ajdovscina, Slovenia, the “hub” of advanced aerospace development and integration in this part of the world. The company is one of the market leaders in the small unmanned systems (UAS) and services field and has a global presence, a robust research and development program and advanced integration/customization capacities.

The company is built around the fields of expertise and practical experience in aerospace, unmanned systems, electronics and sensor development, aerial based surveying and processing, remote sensing, telecommunications, renewable energy systems and extreme environment autonomous habitats and communications.

C-Astral operates a software and hardware laboratory for aerodynamics and systems integration work and a prototyping CAD/CAM workshop facility for composite and metal materials work, modeling and systems integration.

The founders of C-ASTRAL have been active in renewable energy systems integration and habitats work since 1994 and in aerospace since 1999 and are responsible for the first Slovenian Unmanned Aircraft System test flight in 2005 with the Spectral System platform.

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