AERIALTRONICS

COMMERCIAL UNMANNED AIRCRAFT SYSTEMS

ALTURA ZENITH®
AIRCRAFT SYSTEMS

The Altura Zenith sets a precedent for the design of unmanned aircraft systems, by combining state of the art technology with remarkably flat, compact and lightweight design.

This multirotor aircraft system meets a wide variety of application requirements without compromising on design. Fly tomorrow's innovation today.

All weather resistant

Multi-sensor compatible

Unmatched performance

UNIQUE DESIGN
NO COMPROMISES

Performance and beauty are the cornerstones of the Altura Zenith. The structure was designed to enclose electrical components of the highest quality in a streamlined manner.

Hidden within a super flat design, the Zenith carries a 20.000 mAh battery, which facilitates up to 35 minutes of flight time.

Composite
3K carbon

Asymmetric
carbon monocoque

Super flat
fuselage design

PROPULSION
BRUTE FORCE

The Aerialtronics in-house research team has spent more than 6,500 man-hours developing and optimizing the propulsion system of the Altura Zenith. The Zenith is equipped with 4 or 8 brushless motors to enable optimal torque, rpm and energy efficiency ratios.

The brushless motors combined with efficient 16" propellers exert more than 16kg of vertical thrust.
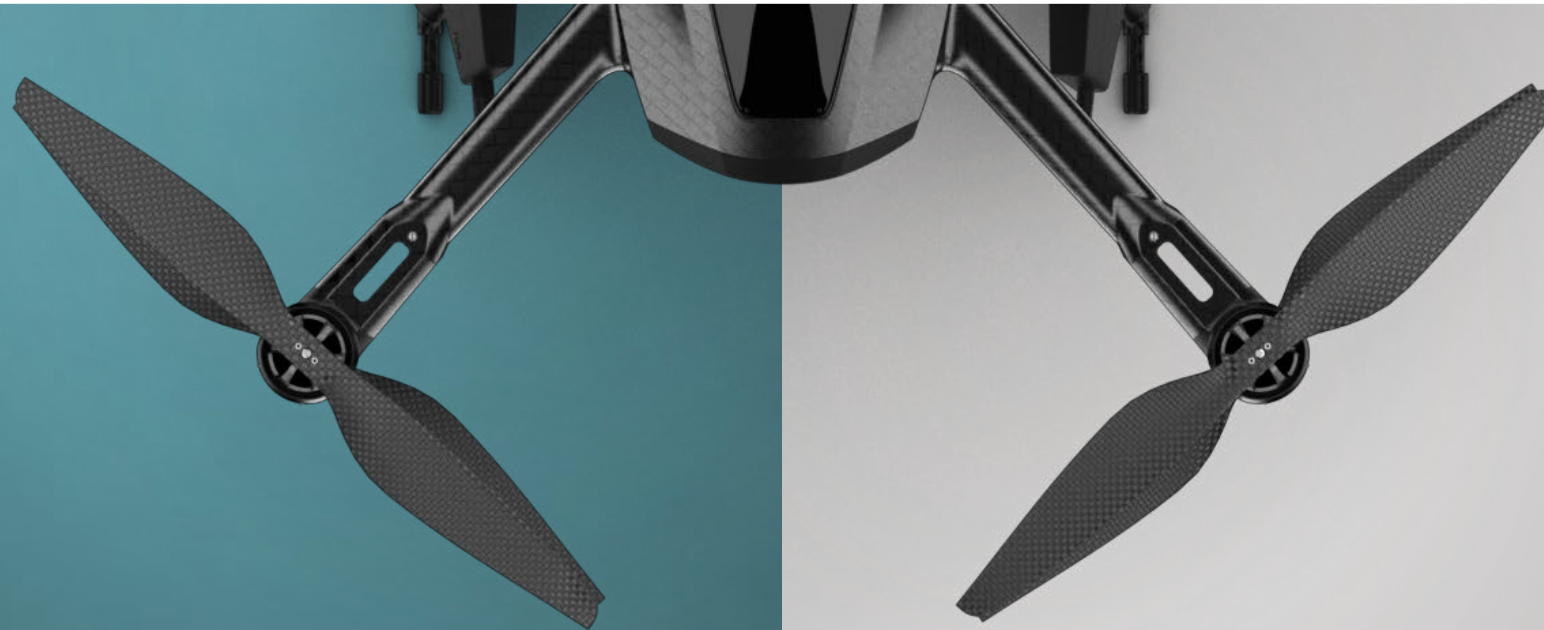
High torque 400W brushless motors

Active motor airflow cooling

16 inch propellers

FLIGHT TIME
CUSTOMIZED OPTIMIZATION

The Zenith is designed to deliver the optimal ratio of flight time and payload for your particular application. Integration of the latest high performance and high capacity batteries of up to 20.0 Ah makes the Zenith more compact, yet equally efficient.

The modular setup enables customized optimization of payload and facilitating up to 35 minutes of flight time.

Payload up to 2.9 kg.

Flight time up to 35 min.

Windspeed up to 12 m/s

ALTURA GCS®
CONTROL WITHOUT LIMITATIONS

All of the Zenith's functions are easily controlled with the ergonomic design of the ground control station (GCS) and the GCS tablet app. This setup guarantees ease of use for an effective deployment of the Unmanned Aircraft System (UAS).

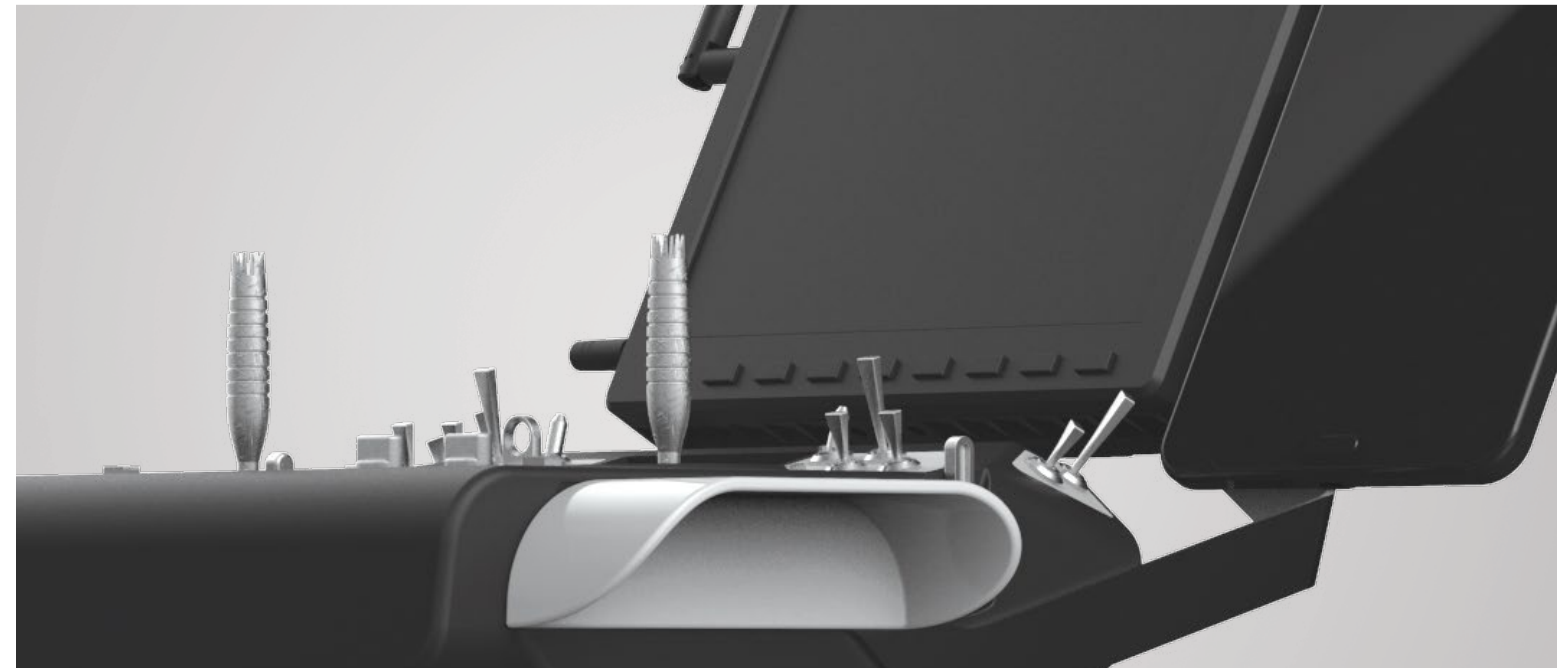All of the Zenith's operations are within one simple touch.

Tablet control

Joystick control

Range up to 1000m

REAL-TIME HD
ANALYSE IN REAL-TIME

The live HD downlink provides real-time access to the Zenith's video feed via a HD monitor. This feature enables the operator on the ground to see what the sensor or payload is recording in the sky.

Aerialtronics offers a unique Full HD 1080i H.264 encrypted video link with a range up to 1000m.
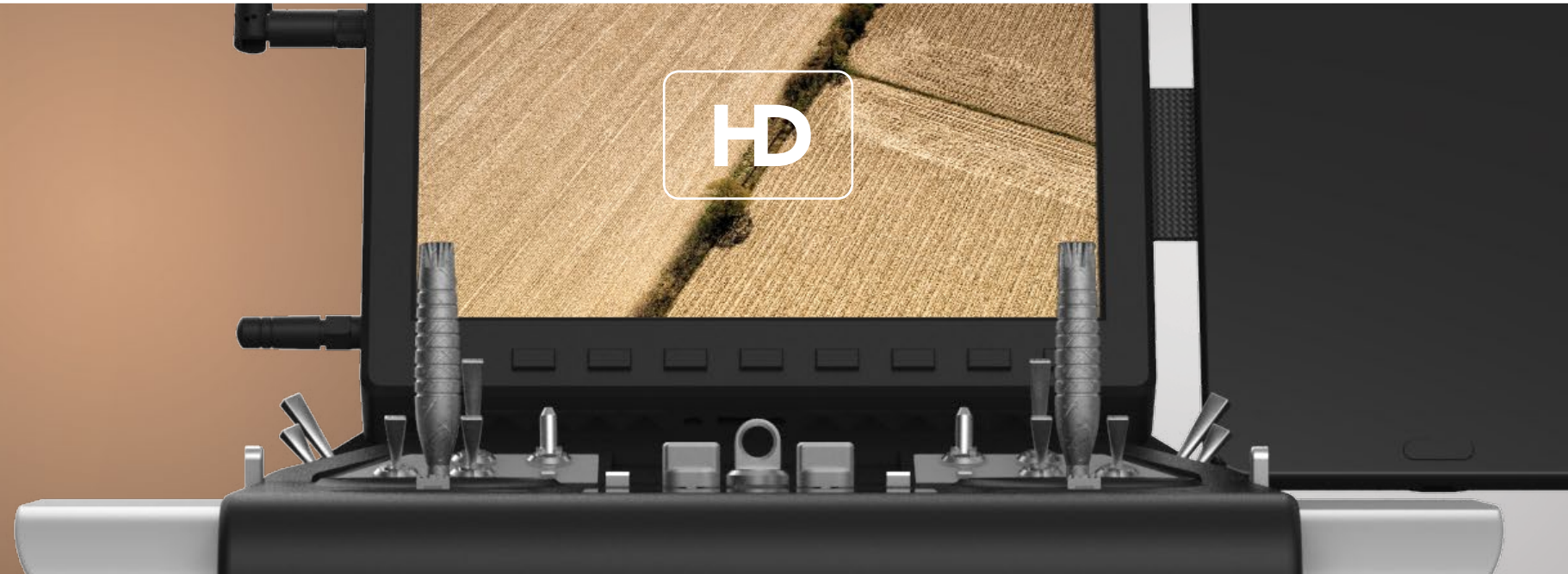
Encrypted video

HD live view monitor

Range up to 1000m

DUAL OPERATION
OPTIMIZE CONTROL

In the dual operation mode, the system is configured with a second control unit to help focus on both the flight and the payload configuration. This allows the users to perform safe, steady flights while delivering optimal data or imagery.
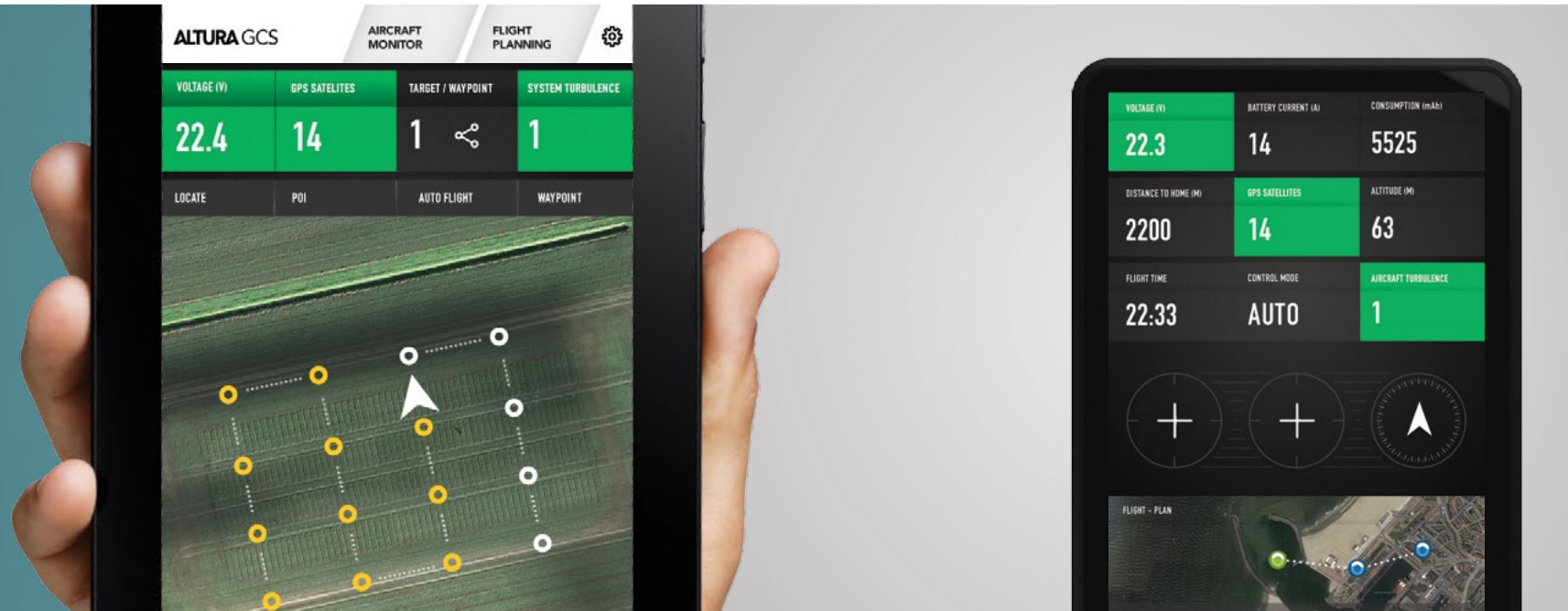
Dual control

Payload control

7 inch HD monitor

TABLET CONTROL
AUTOMATE YOUR FLIGHT

The Altura GCS app manages both autonomous navigation as well as fully manual flights easily. Pilots can opt to navigate via waypoint or repetitive flight patterns. The interface is designed to enable everyone to fly within a couple hours of training.

The touchscreen tablet control was designed to ease navigation.

ALTURA GCS

AIRCRAFT MONITOR | FLIGHT PLANNING

VOLTAGE (V)	GPS SATELITES	TARGET / WAYPOINT	SYSTEM TURBULENCE
22.4	14	1	1

LOCATE | POI | AUTO FLIGHT | WAYPOINT

VOLTAGE (V)	BATTERY CURRENT (A)	CONSUMPTION (mAh)
22.3	14	5525

DISTANCE TO HOME (M)	GPS SATELLITES	ALTITUDE (M)
2200	14	63

FLIGHT TIME	CONTROL MODE	AIRCRAFT TURBULENCE
22:33	AUTO	1

FLIGHT – PLAN

ALTURA APP®
CAPABLE OF GREAT THINGS

Aircraft status & Telemetry

Automate with waypoints

Dog mode follow me

Auto take-off & landing

Photogrammetry & mapping

Heading lock

Virtual fence & safe zones

Aircraft configuration

Payload control

ALTURA CARDAN®
SWAP PAYLOADS EASILY

The Zenith is highly compatible and can be equipped with a wide variety of payloads, such as DSLR or cinema cameras, special sensors like thermal imaging, UV or multispectral cameras, sniffers and microphones.

There are no restrictions in flexibility. You can fit any sensor you choose. The Zenith will suit your application.

Vibration isolator

Quick release payload adaptor

Intergrated HDMI interface

SLIDE TO UNLOCK

AV SERIES®
HIGHLY COMPATIBLE

- 2-axis gyro stabilized
- Internal dimensions 130 to 200 mm
- Payload up to 2 kg.

INDUSTRIAL SENSORS

PHOTO

SONY ALPHA 7R
36.4 MP

SONY ALPHA 6000
24.3 MP

NIKON D810
36.6 MP

PHASE ONE IXU
UP TO 60.0 MP

THERMAL

DUPLA VISTA (SD)
320 THERMAL / SD VISION

DUPLA VISTA (HD)
640 THERMAL / HD VISION

MULTISPECTRAL

MICASENSE
RED EDGE

TETRACAM
SNAP

CORONA

COROCAM
6D

GAS

MINIRAE
3000

BS SERIES®
ULTIMATE STABILITY

3-axis
gyro stabilized

Compatible for
GH4 & Alpha series

CINEMA SENSORS
HIGH-END VIDEO

PANASONIC GH4
4K VIDEO - M43

SONY ALPHA 7R
HD VIDEO - FULL FRAME

SONY ALPHA 6000
HD VIDEO

CUSTOM PAYLOAD INTEGRATION
COMPATIBLE ON DEMAND

Aerialtronics offers a wide range of custom application solutions.
Upon request we can integrate the desired payload.

FIELD PROVEN
**SOLUTIONS
FOR A WORLD OF
APPLICATIONS**
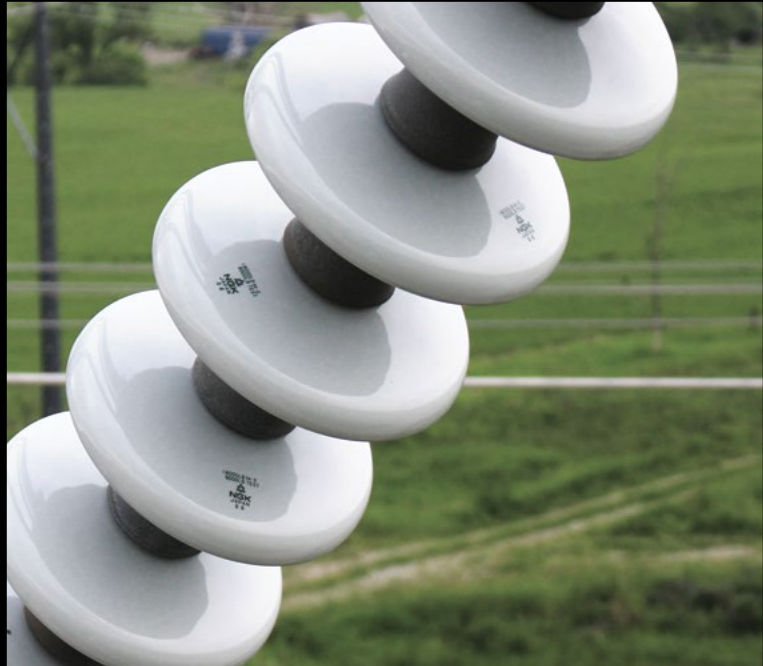
Industrial
Inspection

Safety
& Security

Survey
& Mapping

Cinema
& Photography

Agriculture

Research

FIELD PROVEN
SOLUTIONS
FOR **INSPECTION**

UAS provide a safe, cheap and easily deployable alternative to
traditional field inspections. UAS carry cameras that produce
high resolution and thermal images and transmitters to share
live footage. The UAS can fly within metres of high voltage
lines, improve safety of telecoms and wind turbine inspections,
increase the frequency and reduce costs.

Energy   Telecom   Infrastructure

FIELD PROVEN
SOLUTIONS
FOR **SURVEYING**

The Zenith captures measurements that are faster, more accurate and cost effective than traditional means. With customized sensors, efficient and affordable solutions are made by mapping reserves, stockpiles, extracted materials, mines and parks. Images can be assessed, 3D models created and volumetric calculations produced using orthomosaics, contour lines and point clouds.
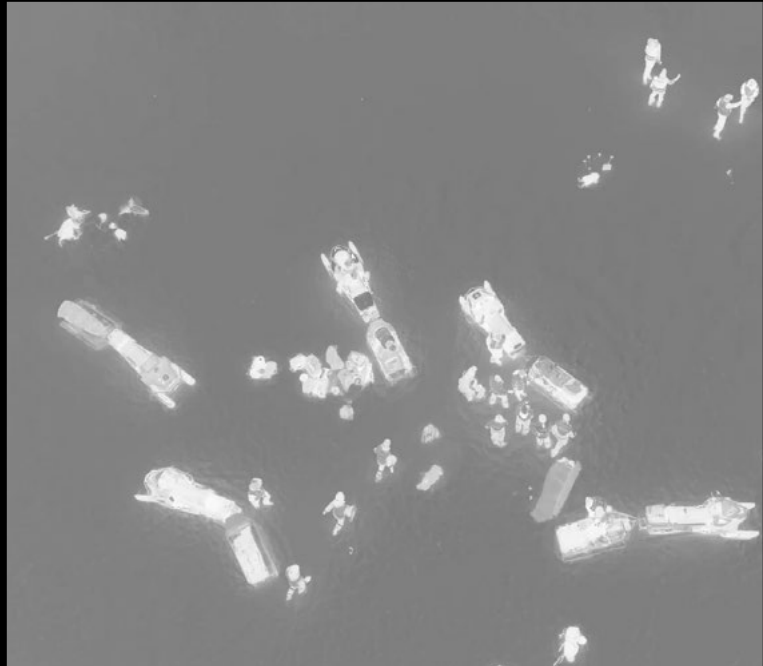
Mining   Construction   Ortho

FIELD PROVEN SOLUTIONS
FOR **SAFETY & SECURITY**

UAS provide a safer way to use aerial assistance in search and rescue operations, firefighting or traffic monitoring. The Zenith system is easy to deploy, its cameras provide daylight and thermal images, which can be downlinked in real-time, and the UAS does not interfere with the operation as it has a low noise footprint.

Fire
Fighting

Search
& Rescue

Public
Safety

FIELD PROVEN
SOLUTIONS
FOR **AGRICULTURE**

The Zenith can improve crop science management by providing aerial camera shots, multispectral measurement and remote sensing equipment all at once. UAS have versatile payload platforms and provide hard copy data inputted instantaneously. The Zenith can improve your production processes while lowering the crop management costs.
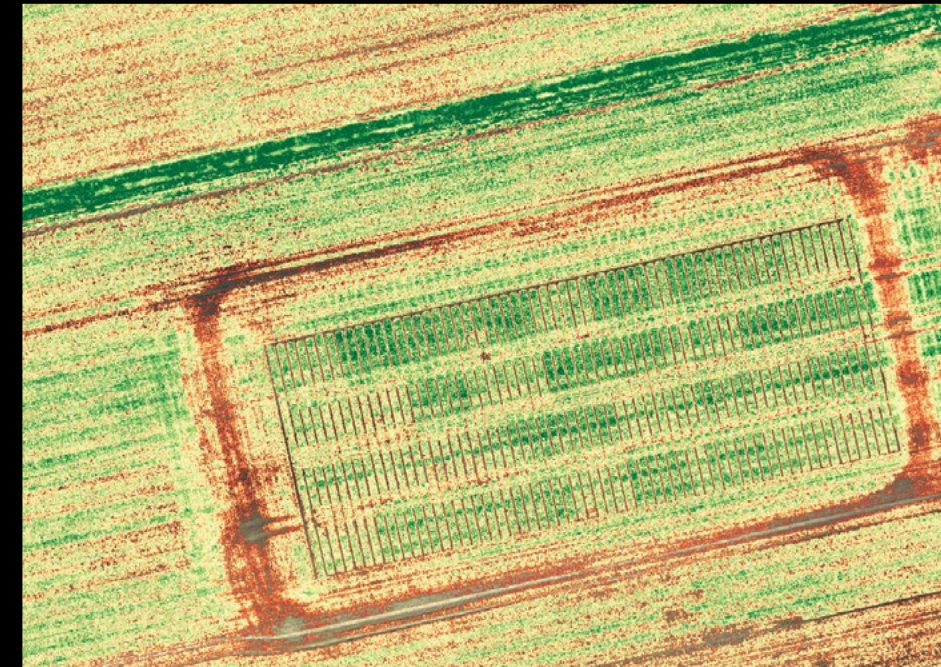
Farming

Vegetation Management

Crop Monitoring

BUSINESS COMPATIBLE
DRONE SOLUTIONS

Reduce costs by improving measurements, forecasting, and decision-making.

Drones can be readily adopted to improve existing processes and operations in the industry, especially if these sensor platforms fit in seamlessly with users existing data collection tools, software and workflow.

Fly Zenith, Acquire Data & Create Results.

AERIALTRONICS®
DRONE SOLUTION PROVIDER

Aerialtronics is an international manufacturer of high quality unmanned aircraft systems for commercial purposes.

We provide full aerial data solutions to a variety of applications worldwide. Our systems are designed and developed in-house according to aviation grade quality standards. Visit us online: www.aerialtronics.com

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