ALTURA ZENITH®
UNMANNED AIRCRAFT SYSTEMS

A FIELD PROVEN INSPECTION ASSET

All weather resistant

Multi-sensor compatible

Unmatched performance

Payload up to 2.9 kg

Flight time up to 35 min.

Windspeed up to 12 m/s

WWW.AERIALTRONICS.COM

Available in Australia and New Zealand from:

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AERIALTRONICS
REMOTELY PILOTED AIRCRAFT SYSTEMS

DRONE SOLUTIONS
FOR INSPECTION

HIGH VOLTAGE & WIND TURBINE

The Altura Zenith unmanned aicraft system offers a cost-effective solution to the maintenance of high voltage electrical lines and wind turbines. Both are traditionally dangerous jobs. Turbine and powerline maintenance, such as examining pylons, inspecting insulators and detecting thermographic problems, is faster and safer with a UAS.

High voltage

Wind turbine

PHONE MAST INSPECTION

The Zenith provides a safe and easily deployable alternative to mobile elevated work platforms and cherry pickers when inspecting radio and phone masts. The Zenith UAS cameras deliver high resolution vision and thermal images. They are also equipped with transmitters to share live footage. The Zenith can fly to within a couple of metres of the lines, improve the quality and frequency of inspections and reduce massive costs.

Phone mast inspection

DRONE SOLUTIONS
FOR INSPECTION

PLAN & FLY
YOUR MISSION

Flight planning is essential for a successful inspection mission. The Altura CGS app was developed to easily manage autonomous navigation and the joystick control allows full manual flights.In dual operation mode, the system can be configured with a second control unit to focus on the flight and optimal data delivery.

Altura GCS app	Flight time up to 35 min	Range up to 1000m	All weather resistant

REMOTE DETECTION
FROM ABOVE

The Zenith UAS can fly within metres of the target at extended range while providing close-up video or photo data. Aerial imagery captures measurements faster, more accurately and more cost effectively than traditional methods. Customised sensors mounted to the UAS make it more efficient to operate.

High power line inspection	Wind turbine inspection	Phone mast inspection

MAKE DECISIONS
IN REAL-TIME

A live feed with on-board customisable sensors allows inspections to be carried out at a safe distance while making quick decisions. There's no need either to carry heavy equipment and scaffolding. The UAS can also relay live multi-data streams on site, stream live multicast video or provide a full data solution after the inspection has been completed.

HD live ground monitor	AES Encrypted link	4G/LTE connection	Multicast communication

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ALTURA GCS

| AIRCRAFT MONITOR | FLIGHT PLANNING | ⚙ |

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

| LOCATE | POI | AUTO FLIGHT | WAYPOINT |

DISTANCE	HEIGHT	WP- DISTANCE	TIME
2050	5005	6455	30:22
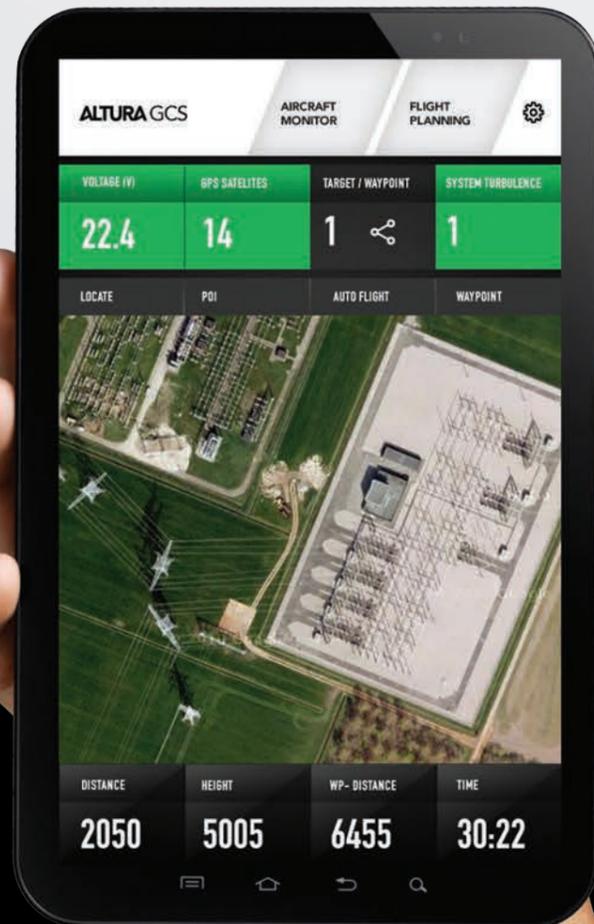
PROGRAM & AUTOMATE
YOUR INSPECTION MISSION

The Altura CGS app was developed to easily manage autonomous navigation and the joystick control allows full manual flights. Pilots can opt to navigate via waypoint or repetitive flight patterns. The touchscreen tablet control was designed to ease navigation.

INSPECTION
PAYLOADS

Day vision / DSLR
Sony alpha 7R

Day vision / DSLR
Sony alpha 6000

Day vision
Sony PJ810

Day vision / CMOS
Phase One IXU 150

Day vision / Thermal
Dupla Vista

Day vision / UVc
Corocam 6D

CREATE RESULTS
TURN DATA INTO INFORMATION

Aerialtronics provides professional data processing software for processing, storage,management, presentation, and analytics of data captured during flight. This powerful tool takes the tedious work out of generating accurate and meaningful 3D pointclouds and orthomosaics, with quantitative information that can be used to properly interpret and understand the condition of your business asset.