Sense and avoid upgrade announcement

For Altura Zenith Unmanned Aircraft System

Sense and avoid

Approach your point of interest with ease.

Plug, sense and avoid
Modular functionality, on demand.

This innovative sense and avoid solution improves safety during the inspection of telecommunication towers, utility poles and oil rigs, particularly in windy conditions.

The onboard ultrasonic technology helps the pilot to keep a safe distance from obstacles and increases the safety of their inspection. The sense and avoid solution comes as four plug-and-play sensor extensions which are simple to install.

2 Sensor surround
Detect static and moving objects

Aerialtronics' sense and avoid solution detects both static and moving objects up to 15 metres away and the four sensors mean the Altura Zenith can locate objects up to a 360° field of view.
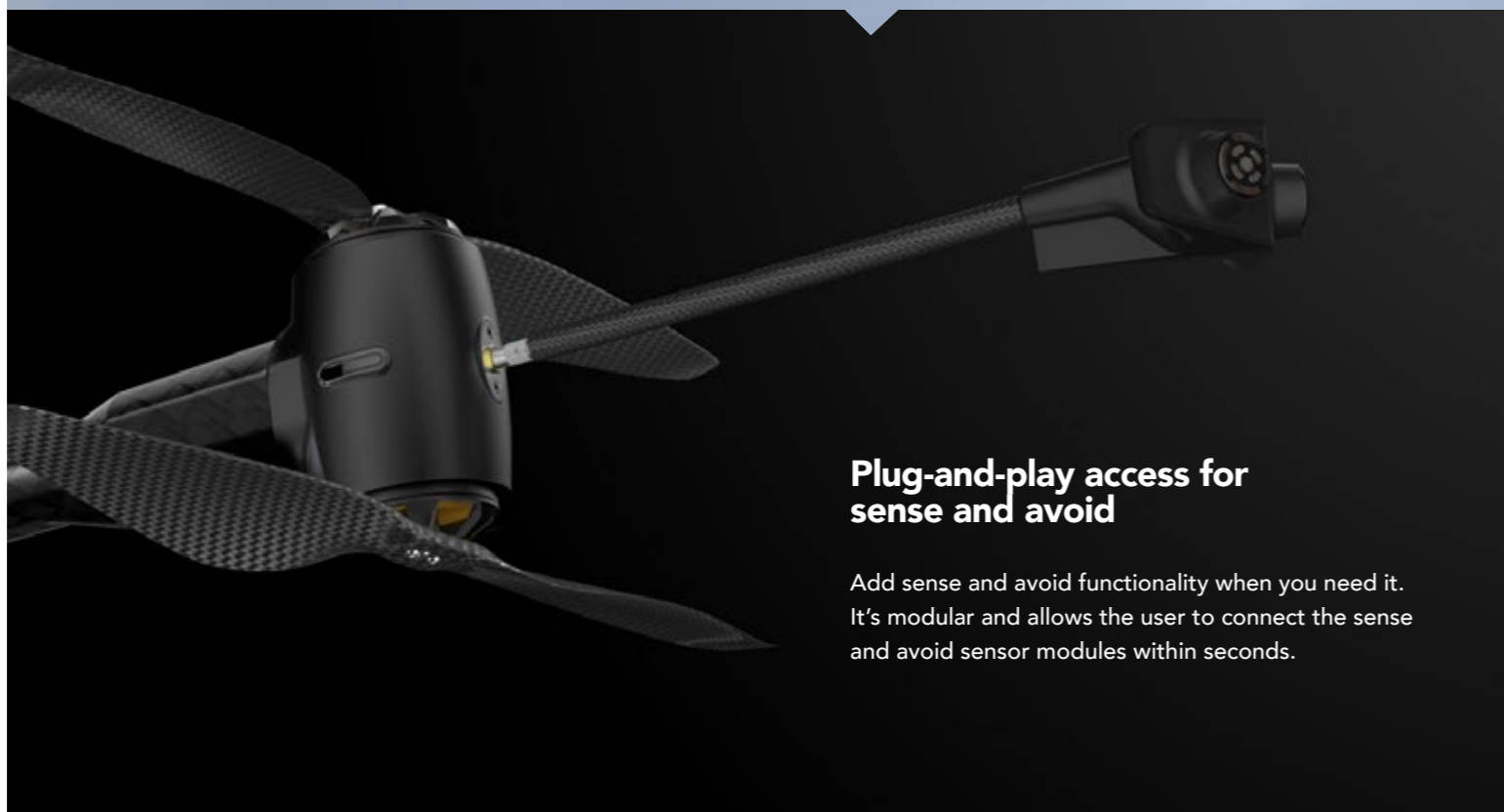
The precise distance control makes inspection easy when flying close to the object. It decreases the risk of collision, especially when working further from the inspection target where the pilot sees no depth between the aircraft and the object.

Fly safely
Set pre-defined safety zone

To speed things up and fly safely during the inspection of any structure, the Altura Zenith can be flown to within a pre-defined safe distance from any object it detects.

This 'adjustable safe zone' enables users to approach the building and collect data with any Altura Zenith compatible data sensor as close as two metres from the object.

Plug-and-play access for sense and avoid

Add sense and avoid functionality when you need it. It's modular and allows the user to connect the sense and avoid sensor modules within seconds.

Precise measurements
Powered by ultrasonic technology

The ultrasonic technology works by emitting a sound and measuring the time it takes for the first echo to return, allowing closer examination with the drone.

The sense and avoid solution will become available in two packages, 180° front coverage and 360° full aircraft coverage.

Adjustable for every mission
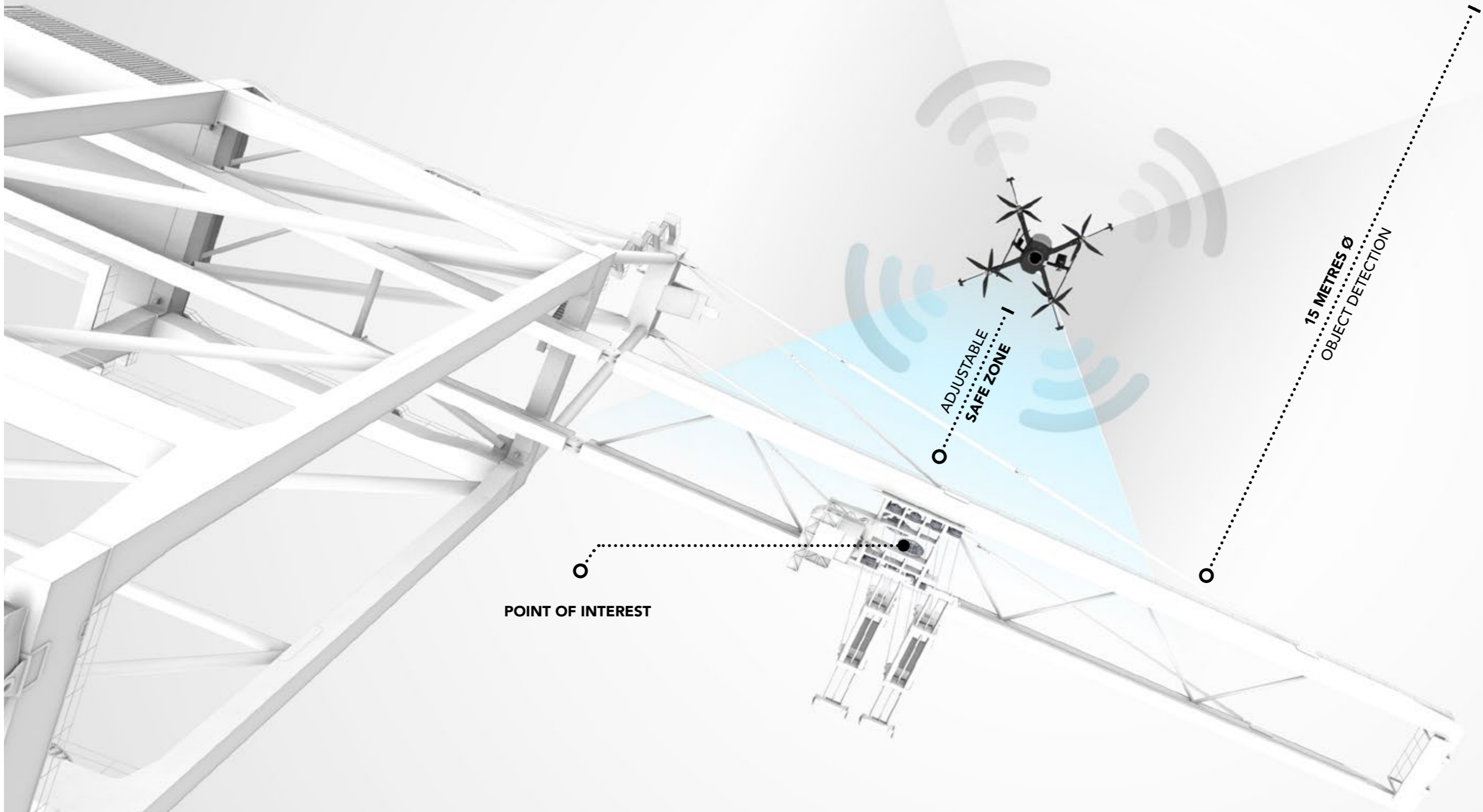No matter what the application

No matter what the application is, you can pre-define a safe distance from the Altura Zenith UAS to any object and modify the retraction or distance keeping behaviour by selecting different modes in any weather conditions.

Sense and avoid will ultimately enhance the ease of use and increase the safety of your flight.

Sense and avoid

Approach your point of interest with ease.

Stay clear of objects.

WIND DIRECTION

15 METRES Ø
OBJECT DETECTION

ADJUSTABLE
SAFE ZONE

POINT OF INTEREST

AERIALTRONICS
REMOTELY PILOTED AIRCRAFT SYSTEMS

AERIALTRONICS
REMOTELY PILOTED AIRCRAFT SYSTEMS

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www.aerialtronics.com

Sense and avoid will become available in Q2 -2016 on the Zenith versions 1.3+
Current owners of previous versions can upgrade their Zenith to 1.3