# **ORION**|UAS

Tethered drone system for surveillance and communications





Tethered drone system for surveillance and communications

Orion Unmanned Aerial System is an advanced tethered drone system providing continuous aerial coverage over large areas for law enforcement, public safety, private security and military uses, asset protection, event security, emergency communications and crisis monitoring.



FLIGHT

TIME

80 m HOVERING

ALTITUDE

**300** sq.km DAY HUMAN

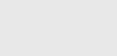
DETECTION

## FULLY AUTOMATED FROM TAKE-OFF TO LANDING

Thanks to a push-button interface and a wholly automated deployment, Orion users don't need any particular piloting skills nor extensive trainings.

#### DAY AND NIGHT VISION X30 DAY OPTICAL ZOOM

Equipped with a gyro-stabilized multi-sensor full HD camera with day-light optical zoom X30 and an infrared camera, Orion is highly qualified for demanding and long staring missions in any day / night weather conditions.



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#### FLY FOR DAYS NOT MINUTES

Powered from a ground source and through its patented micro-tether and built with industrial components, Orion is designed for long duration uses.



LAW ENFORCEMENT Crowd Control Traffic Monitoring Event Control



PRIVATE SECURITY Industrial Crisis Monitoring Assets Protection Content Event Management

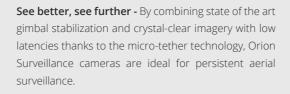


MILITARY Force Protection Communications Extensions ISR



DISASTER RECOVERY Emergency First Responders Popup Telecommunications Relief Efforts







**No pilot required -** Simply connect Orion to your Safe-T tethering station, enter your desired hovering height on the control pad and press Start. Be ready within minutes.



## RESILIENT MOTORIZATION FOR TRUE ENDURANCE

With its high-grade industrial motors, Orion has been engineered to endure extensive flight times and demanding environments.





### MULTIPLE REDUNDANCIES FOR SECURED OPERATIONS

Orion is redundant at every level, including autopilot sensors, motorization, power distribution and logical controls. An emergency parachute system is also included.

# WEATHER RESISTANT

Designed to sustain harsh weathers thanks to Elistair molding process, Orion electronics and internal elements are protected from the elements.



**Fully secured** - Avoid interferences, jamming or hacking thanks to Orion fully secured data transmissions through Elistair micro-tether. Orion also integrates built-in fault-detections, emergency procedures and a smart parachute system.



**Always ready -** Orion is assembled or disassembled in a snap, no tools needed. Arms easily disconnect, maximizing compacity for transportation. Connect your control pad to the system, select a hovering height, press launch!

# TECHNICAL SPECIFICATIONS

#### ORION UAV

Operating Altitude (AGL	) 80 m / 262 feet
Wind Continuous/Gust	35 kph / 50 kph
Data rate	Up to 100 Mbps
Global positioning GPS / Glonass / Beidou	
Safety battery	Onboard
Power Options	3 kW, 210-230 VAC Grid or Generator

#### EO/IR Gimbal

Daylight camera	Full HD 1080p
Optical zoom	X 30
Infra-red camera	640 x 512 pixels
Stabilization system	2 axis
<b>Optional lenses</b> 13, 14, 17, 19, 25, 35 mm	
Black box Recording for postflight analyzes	



For further information, orders and delivery, please contact us at:

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