

# ORION|UAS

*Tethered drone system for surveillance and communications*



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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.

**10+**  
hours  
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.

## 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.

## 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.

## 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.

## WEATHER RESISTANT

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



### LAW ENFORCEMENT

Crowd Control  
Traffic Monitoring  
Event Control



### PRIVATE SECURITY

Industrial Crisis Monitoring  
Assets Protection  
Event Management



### MILITARY

Force Protection  
Communications Extensions  
ISR



### DISASTER RECOVERY

Emergency First Responders  
Popup Telecommunications  
Relief Efforts



**See better, see further** - By combining state of the art gimbal stabilization and crystal-clear imagery with low latencies thanks to the micro-tether technology, Orion Surveillance cameras are ideal for persistent aerial surveillance.



**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.



**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

**Optional lenses** 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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