

KHRONOS

Advanced Tethered DroneBox
for ISR missions & mobile operations



ABOUT US

Elistair is a global expert in the design and manufacturing of tethered drone systems. Based in Europe and North America, the company's products have been successfully deployed by allied forces and public safety units in over 70 countries since 2014.

Our commitment is to help those who serve and protect make faster and better decisions in critical situations, with cutting edge and mission ready tethered drone technology.

KHRONOS

Whether you are standing still or on the move, instantly see what is over the hill or in the surrounding area for extended periods of time.

24 hours ISR operations

Hover at 60m (197 ft) from day into night to observe, track and categorize targets inside a 10-km radius

Fully automated

With a push button operation, Khronos can be airborne and back in the station in 2 minutes

Ready for integration

Compact and lightweight, Khronos can be easily mounted and transported on a vehicle

Mission ready

GNSS denied, follow me, and RF silent functions allow you to fly in challenging operational environments

Open architecture

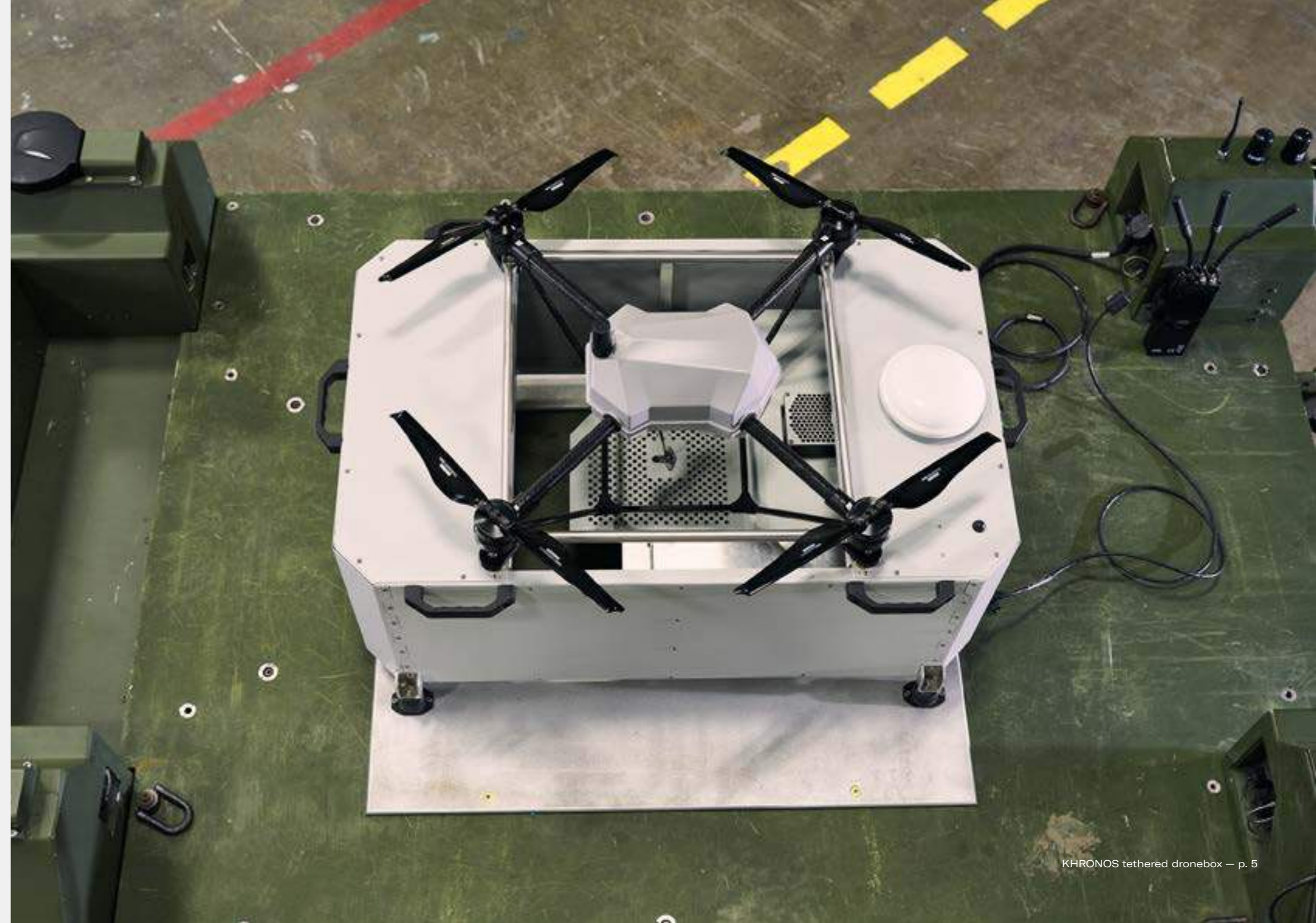
With its built-in open API, Khronos can be integrated with Video Management Systems

Designed for the field

Shock resistant and IP54 designed, Khronos is ruggedized to operate off road and in poor weather conditions

NDA COMPLIANT

ITAR FREE



BORDER AND PERIMETER SURVEILLANCE



24 hrs endurance



Airborne in 2 min



X80 EO zoom

Deploy Khronos in less than two minutes to rapidly obtain an aerial view over a 10-km radius distance, and stay ahead of the threat. Benefit from its powerful ISR solution that combines day-night object tracking and categorization, and easily share live information with your team.





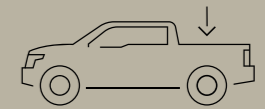
VEHICLE DEPLOYABLE MISSIONS



Auto follow me up
to 30km/h



GNSS denied & RF
Silent



UGV & vehicle
integration

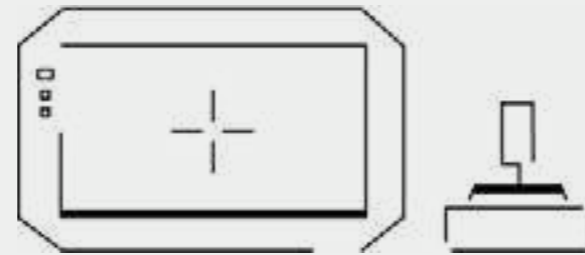
Compact and lightweight, Khronos follows you throughout your mobile operation and can be linked with a video management system of choice. Quick to deploy, ruggedized, and equipped with advanced sensor intelligence, Khronos can assist with early threat detection at range.

COMPLETE MISSION SYSTEM

Khronos is a complete and fully automated system which includes the tethered drone, its power and landing station, and its ground control software. The entire solution is designed to be integrated onto a fixed platform or vehicle to safely enhance mobile operations and increase operational flexibility.

GROUND CONTROL STATION - T-PLANNER V2 SOFTWARE

- Push-button command and control
- AI features: POI, automated routines, object identification, categorization and tracking
- API available
- System health monitoring and user maintenance guidelines
- Secure closed-loop system



KHRONOS - DRONE

- 24 hrs of uninterrupted flight time
- Under 2 mins automatic takeoff and landing
- Follow me technology
- GNSS Denied
- Best in class ISR tech with NEXTVISION RAPTOR or DRAGONEYE cameras

KHRONOS - STATION

- 70-m (230-feet) tether with Elistair's industry leading cable management system
- Continuous and safe power transmission
- Ruggedized and IP54 design
- High-speed secure data transfer
- Mobile or fixed platform



T-PLANNER: ADVANCED MISSION SOFTWARE

Elistair's proprietary T-planner software enables intelligent image analysis and simplified drone and payload control. Operators can be airborne and provide situational awareness effectively within minutes of arriving on the scene.

Identification and tracking

Easily define points of interest, localize, track targets and launch automated scans



Automated flight profile

Concentrate on your ISR operation and let Khronos focus on flying



Open Architecture

Khronos comprehensive API allows you to control the drone's camera from an off-site location



Ruggedized compact tablet

Khronos GCS is compact and ruggedized against shock, water and dust ingress



BEST IN CLASS ISR PAYLOADS



RAPTOR

The Raptor classification and tracking functions greatly facilitate continuous missions by helping the operator to easily focus on objects of interest, such as humans and vehicles with a best-in-class IR sensor and an X80 EO zoom.

NDA COMPLIANT

DAY DRI*

Person



Car

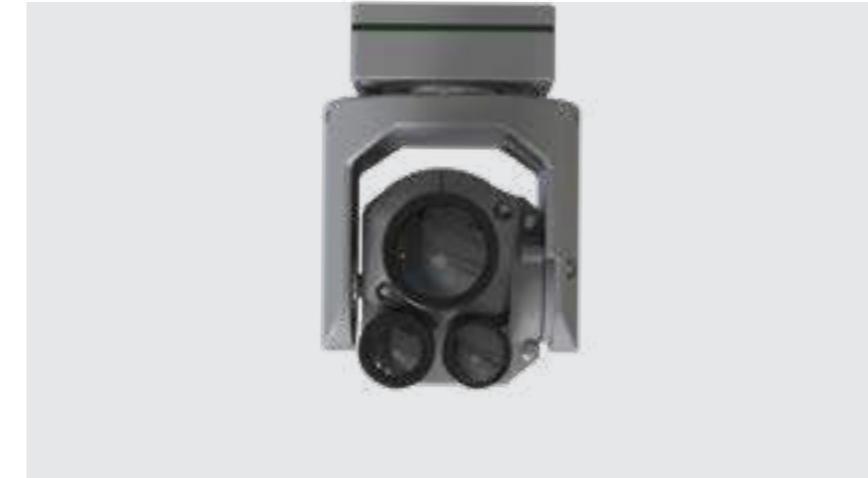


NIGHT DRI*

Person



Car



DRAGON EYE

The DragonEye is a dual EO-IR, stabilized camera with a weight of 115g offering unparalleled long range surveillance capability.

NDA COMPLIANT

DAY DRI*

Person



Car



NIGHT DRI*

Person



Car



ADVANCED TECHNOLOGY

Khronos has been designed to address the needs of flying in challenging operational environments. These advanced features allow a seamless deployment to quickly get a sensor airborne and provide actionable information whilst limiting the exposure of operators to danger.

Onboard Jetson artificial intelligence:
built-in automated objects identification

Smart positioning system
GNSS denied & auto follow me

Ethernet and wifi connectivity

Power source: generator or main, 120 - 230 VAC



IP54 design

Raptor sensor with X80 EO zoom

70m (230 ft) Micro tether
secured data and unlimited power

Compact and lightweight
tethered station ready for integration

TECHNICAL DATA

GENERAL

Flight time capacity	24 hrs
Micro tether length	70 meters (230 feet)
Micro tether data transfer	100 Mb/s
Compatible payloads	Nextvision Raptor and DragonEye
ITAR free	Yes
NDAA compliant	Yes
Full system dimensions (unfolded, without feet)	L 102,4 x W 89,5 x H 53,5 cm (40 x 35 x 21 ")
Max system weight	35 kg (77 lbs)
Power input	Power source 120V - 230V, 50 - 60Hz (generator minimum 2,5 kW)

OPERATIONAL FEATURES WEATHER RESISTANCE

Deployment time	< 2 minutes
Max. ascending and descending speed	2 m/s (2.2 y/s)
Automated follow me	Up to 30 km/h (18 Mph) vehicle speed
Dark mode	Dark visual mode No radio emission
GNSS denied	Static use, up to 30 m (98 ft) drone height
Ingress protection	IP54
Operating temperature	-10°C to 45 °C (14 °F to 113 °F)

RAPTOR CAMERA

Gyro-stabilization	2 axis + 3rd digital axis
Day channel zoom	X 80 (X 40 optical + X 2 digital)
Resolution and frequency (day channel)	1280 x 720 pixels, 50 Hz
IR sensor (night channel)	1280 x 720 pixels, 9 Hz
Digital zoom (night channel)	X 8

DRAGON EYE CAMERA

Gyro-stabilization	2 axis + 3rd digital axis
Day channel zoom	X 40 (X 20 optical + X 2 digital)
Resolution and frequency (day channel)	1280 x 720 pixels, 50 Hz
IR sensor (night channel)	640 x 480 pixels, 9 Hz
Digital zoom (night channel)	X 4



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