

HELIUS OVERVIEW



The Next Big Thing In Small UAVs

For operators who need a small UAV with big capabilities, 249g HELIUS is a reliable, high-performance Nano UAV that puts advanced situational awareness in the palm of your hand. Engineered to thrive where others fail, HELIUS is a standout for operations that require safety, reliability, and a low probability of detection.

FEATURES & BENEFITS



Quick & Easy Deployment

Launch in <30 seconds for enhanced real-time situational awareness

AI Intelligence

Streamline workflow with object recognition and tracking features

LTE Capable

Unlock BVLOS with simple and secure LTE controls

Compliant LED Lights

Anti-collision strobing lights with 3-mile visibility supports night flying

Obstacle Avoidance

Multi-camera front stereo system helps to navigate tight quarters and urban environments

All-Weather Performance

Rugged airframe reliably operates rain, snow, sand, and winds up to 25 mph

Stealthy Performance

Undetectable acoustic signature is best in class

Electro Optical 4K Camera

Features an ultra low-light sensor for crystal clear imaging in any environment

Tactical Speed

Fly up to 45 mph when your missions need it most

Field Swappable Batteries

Rechargeable batteries are easy to swap and minimizes operational downtime

Ultra-Compact

Sleek form and integrated blade storage easily fits in utility belts and tactical vests



USE CASES

PUBLIC SAFETY

- Search & Rescue Operations
- Tracking Suspects
- Crime Scene Investigation
- Accident Scene Documentation
- Crowd Monitoring

INDUSTRIAL

- Security & Perimeter Surveillance
- Infrastructure & Utility Inspection
- Construction Site Monitoring

MILITARY

- Enhanced Perimeter Security
- Close Range Surveillance
- Threat Assessment in High-Risk Operations
- Forward Deployment Recon

HELIUS

PLATFORM SPECIFICATIONS



AIRFRAME

AIRFRAME DESIGN	Coaxial Nano Drone
MATERIALS	Polycarbonates, Composites, Aluminum
DIMENSIONS	10.8 x 2.9 x 2 inches (275 x 75 x 53 mm)
ROTOR DIAMETER	11.8 inches (300 mm)
BATTERY	Field Swappable, Rechargeable

PERFORMANCE

MAX SPEED	Up to 45 mph
ENDURANCE	~30 mins
ACOUSTIC SIGNATURE	Best in Class
LAUNCH METHOD	Hand Deployable
TIME TO LAUNCH	<30 secs
AI-ENABLED	Object Recognition, Autonomous Navigation, Follow Modes, Geotagging, Counting

PAYLOAD

CAMERA TYPE	Electro Optical Ultra Low Light
OBSTACLE AVOIDANCE	Multi-Camera Front Stereo System
RESOLUTION	12.3 MP
VIDEO	4K, 12 MP @60 fps, Full HD @240 fps
NIGHT BEACON	3-Mile Visibility

COMMAND & CONTROL

DATA LINK	4G LTE Enabling Remote Viewing and BVLOS Operation
GCS	LTE-connected mobile device
SOFTWARE	TAK Compatible

ENVIRONMENT

OPERATING TEMPERATURE	-20C to 60C
WIND	Up to 25 mph
PRECIPITATION	Best in Class

