



Date: 25th Sept 2025

To  
The Manager,(Listing Department),  
**National Stock Exchange of India Limited,**  
Exchange Plaza, Bandra-Kurla Complex,  
Bandra (E), Mumbai – 400 051.  
**SYMBOL: BCG.**

To  
The Corporate Relations Department,  
**BSE Limited,**  
Phiroze Jejeebhoy Towers,  
Dalal Street, Fort, Mumbai – 400 001.  
**Scrip Code: 532368**

**Subject: Outcome of Board Meeting held on 25th September 2025**

The Board of Directors of Brightcom Group Limited, at its meeting held on 25th September 2025, noted progress achieved in the newly established defence vertical.

The highlights are:

1. Appointment of a reputed advisor, bringing domain expertise and guidance to shape the division's long-term roadmap.
2. Signing of a Memorandum of Understanding (MoU) with CQT Weapon Systems, Michigan, a reputed U.S.-based defence manufacturer, to collaborate on tactical hardware and AI-enabled systems.
3. Portfolio of the UAVs and related Operating System to the Board, a range of mission-ready drones designed for ISR (reconnaissance, strike, and surveillance) applications, and the Company's proprietary defence intelligence platform. The portfolio is annexed to this outcome note.
4. The Board was briefed by management on recent strategic progress, underscoring matters of material importance that are currently moving toward decisive final stages.

Taking the above into account, the Board recognised that this matter will require approval of the General Body of shareholders in accordance with the Companies Act, 2013 and SEBI (LODR) Regulations, 2015.





Accordingly, the Board resolved to postpone the Annual General Meeting (AGM) scheduled for 28th September 2025, so that these matters may also be placed before shareholders to present a consolidated view. The Company will complete the requisite regulatory filings within the permissible timelines. A revised date for the AGM will be announced shortly, with due notice to all shareholders

Board meeting started at 8:15 pm and ended by 9:30 PM

**for Brightcom Group Limited**



Raghunath Allamsetty  
Executive Director  
DIN: 00060018

Enclosed: Portfolio of Brightcom Defence





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***PORTFOLIO OF DEFENCE UAVS / DRONES***



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# Our Mission

We engineer intelligent defence ecosystems where UAV hardware, AI autonomy, and secure networks converge to dominate tomorrow's battlefields.



# Our Technology

**AI Autonomy (Maestro OS):** Real-time autonomous decision-making and adaptive mission execution.

**Mission-Ready UAV Portfolio:** ISR, Tactical Strike, FPV, and Recon platforms.

**Integrated Defence Ecosystem:** Multi-UAV networking, Secure comms, automated mission management.

**Counter-UAS Capabilities:** AI-powered detection, Jamming/Spoofing, and Interceptor options.



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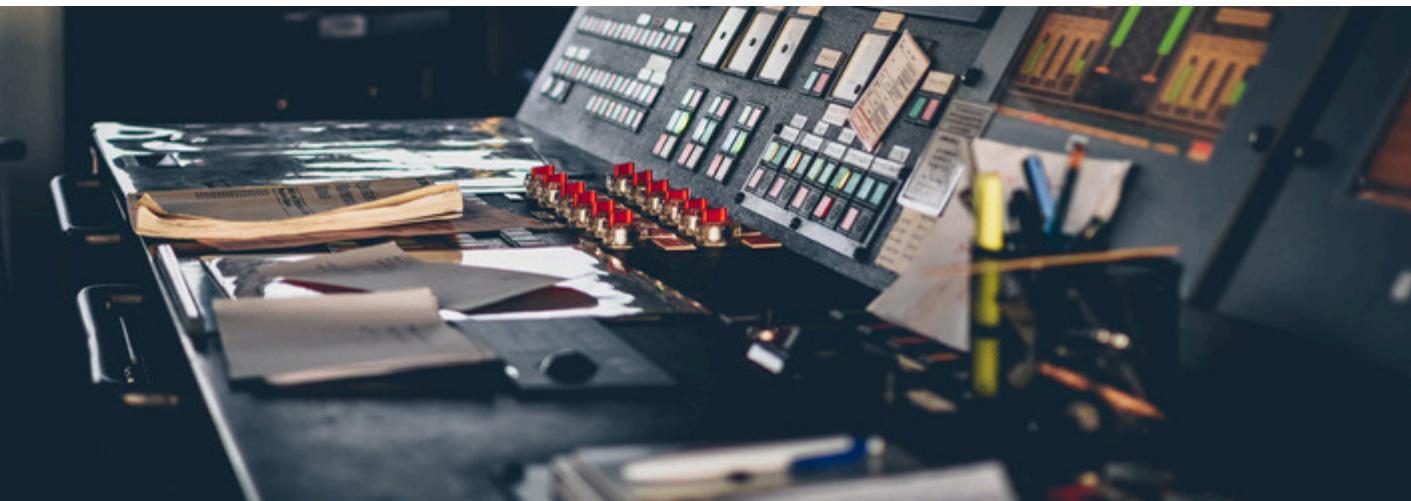


# Maestro OS

## AI-powered operating system

### OVERVIEW

Maestro OS is the AI-powered brain of Brightcom Defence. It fuses sensors, UAVs, effectors, and operators into a single command layer that transforms raw battlefield data into real-time, actionable intelligence. With Maestro OS, commanders move with machine speed, precision, and confidence.



### Key Features

- **Shared Battlespace Picture:** Fuses EO/IR, LiDAR, thermal, and EW sensors with AI/ML analytics for a unified situational view.
- **Automated Threat Analysis:** AI-driven anomaly detection and prioritization of threats.
- **AR Mission Overlays:** Augmented reality maps to enhance situational awareness and mission planning.
- **Multi-UAV Orchestration:** One operator can control and coordinate multiple UAVs simultaneously.
- **EW Resilience:** Built-in anti-jamming protocols and autonomous fallback modes ensure mission continuity under contested conditions.
- **Scalable Architecture:** From single UAV missions to large-scale swarm operations, Maestro OS adapts seamlessly.



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# The Open Defence Operating System

Air superiority requires orchestration, not just automation. Maestro OS is built as the first '**Open defence operating system**', designed for multi-domain command and control.



**Simple** – Intuitive workflows from planning to execution.



**Scalable** – From single UAV missions to multi-theater swarm ops.



**Extensible** – Open APIs to integrate sensors, effectors, and allied C2 systems.



**Intelligent** – Predictive modeling, anomaly detection, and mission optimization.



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# Core Capabilities



## Computer Vision & Target Identification

- Helix CV: Optical + thermal detection (200 m vehicles, 50 m small objects).
- EO/IR Payloads: Auto-tracking, scene lock, stabilization, anti-fog.
- Automated detection and classification.



## Flight & Ops Automation

- Pre-programmed missions resilient to comms loss.
- Autonomous take-off/landing with laser precision.
- Anti-jamming and autonomous return modes.
- Extreme environment resilience (-25°C to +50°C).



## Ground Control Station (GCS)

- Secure comms: frequency hopping, AES-256, VPNs.
- Multi-UAV orchestration (1-to-many, many-to-1).
- Signal relay and mesh networking.



## Threat Prediction & Battlefield Analytics

- Predictive ISR-based enemy movement modeling.
- Threat prioritization (air defence vs. vehicles).
- EW anomaly detection.



## Counter-UAS Capabilities

- PAI hostile drone classification (RF, EO/IR, radar).
- Soft-kill: jamming and spoofing.
- Hard-kill: interceptor drones, directed-energy.



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## Swarm Drone Orchestration

### COORDINATED AUTONOMY

Maestro OS enables dozens—or hundreds—of UAVs to fly as a synchronized swarm, each acting as both independent sensor and cooperative teammate.

### ADAPTIVE BEHAVIOR

Units dynamically redistribute tasks in real time (ISR, strike, relay) if one drone is lost or jammed.



### DISTRIBUTED INTELLIGENCE

No single point of failure; decision-making is shared across the swarm to ensure mission continuity.

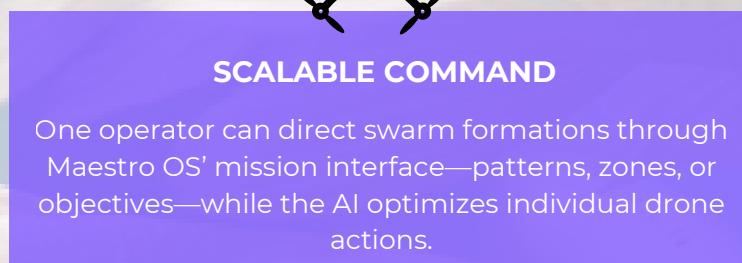
### MISSION FLEXIBILITY

Swarms can execute area saturation surveillance, simultaneous multi-target strikes, or create mesh networks for comms extension.



### SCALABLE COMMAND

One operator can direct swarm formations through Maestro OS' mission interface—patterns, zones, or objectives—while the AI optimizes individual drone actions.





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# UAV Portfolio Overview

## Experience next-generation UAV capabilities firsthand

**RAVEN** – Strategic ISR / Multi-Mission platform for long-range surveillance and multi-role operations.

**HELIX Series (HELIX 7, HELIX 10)** – High-speed Recon & Strike mini UAVs for agile battlefield use.

**THUNDERBOLT** – Tactical Strike drone-bomber optimized for payload delivery and precision engagement.

**TIBURON** – Tactical Recon fixed-wing UAV for extended endurance and all-weather operations.

**MINI TIBURON** – Man-portable Recon system designed for rapid deployment and hand-launch missions.





## OVERVIEW

The RAVEN is a versatile **long-endurance UAS designed for strategic ISR and multi-mission adaptability**. With **modular airframe configurations (VTOL or fixed-wing)** and proven resilience in contested environments, it delivers stable intelligence, surveillance, and communication relay across vast areas. Optimized for military and national security operations, the RAVEN combines long endurance, high payload capacity, and advanced autonomy.



## Key Features

- **Endurance & Range:** 8–10 hours of continuous flight, with up to 1100 km operating range.
- **Configurable Airframes:** Switch between VTOL and fixed-wing modes in under 15 minutes.
- **EW Resilience:** Secure encrypted comms (200+ km) with anti-jamming protection.
- **Stealth Build:** Composite frame with low radar visibility.
- **Autonomy:** Automatic take-off/landing, mission planning, and in-flight recharging.
- **Harsh Weather Capability:** Operates in temperatures from -25°C to +50°C, with fog, wind, or mist.



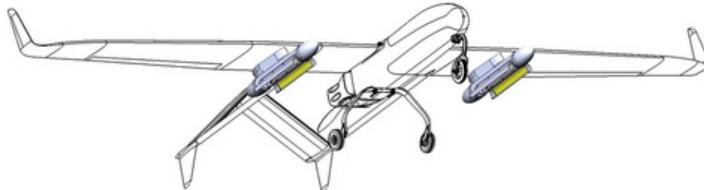
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## Performance Specs

- **MTOW:** 45–55 kg (config-dependent)
- **Payload Capacity:** 11–19 kg (config-dependent)
- **Ceiling:** 4500–5000 m
- **Speed:** 100 km/h cruise, 140 km/h max
- **Engine:** 4-stroke carburetor gasoline engine with onboard generator
- **Deployment Time:** 20–40 minutes

## Cargo Delivery Capability

- **Dropdown or Landing Delivery:** Modular wing/fuselage containers or even landing the drone for load/unload and further take-off. Cargo delivery may be executed by command or at a predetermined point.
- **Capacity:** Up to 8 kg (internal or external containers).
- **Container Options:**
  - External: 440×100 mm, 3.4 kg (set of 2)
  - Internal: 250×210×180 mm or 316×220×225 mm



## Control & Interfaces

- **Ground Control Station (GCS):** Portable with encrypted datalink and SATCOM integration.
- **Autonomy Suite:** Pre-programmed mission execution; auto-return on EW suppression.
- **Operator Tools:** Ruggedized tablets + mission console.

## Mission Applications

- **Strategic ISR:** Persistent surveillance for military, border, and naval ops.
- **Comms Relay:** Extended tactical comms and data relay for field units.
- **Electronic Warfare Resilient Ops:** Survives jamming/spoofing environments.
- **Cargo/Resupply:** Supports supply delivery in remote or denied zones.
- **Special Ops:** Silent, stealth recon in high-risk terrains.



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## PAYOUT OPTIONS

### Standard Payloads

- **EO/IR Turret:** Full-HD EO/IR with 30× optical zoom, digital stabilization, scene lock, and anti-fog features.
- **Onboard Storage:** Recording and real-time streaming enabled.
- **Thermal/IR:** Optional integrated modules (USG-series).



### Advanced Modular Payloads

- **LiDAR:** High-resolution mapping for surveying, forestry, and geodesy.
- **SAR (Synthetic Aperture Radar):** All-weather, day/night imaging; frequency-adaptive to avoid signal attenuation.
- **IMSI Catcher:** Mobile phone interception for tracking enemy forces or smuggler movement.
- **Radio Repeater:** Extends secure communication range for ground troops.



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## ENGINE UNIT

The RAVEN's propulsion is based on a combat-proven 4-stroke carburetor gasoline engine, designed for reliability in harsh operational environments. Unlike fuel-injection units, the carburetor system is optimized to minimize points of failure and ensure performance even with low-quality fuel sources.



### Key Highlights

- 100 cc 4-stroke internal combustion engine.
- Remote start capability via GCS with a single button.
- **Emergency Start Feature:** automatic in-flight restart in case of failure.
- **Upgraded muffler** for reduced acoustic signature.
- **Temperature Control:** operates from -20°C to +50°C with intake sensors.
- Onboard **500 W generator** for powering mission payloads.
- Carburator design ensures reliability at altitudes up to 5700 m, with tuning only needed every 6 months.

**This engine unit makes RAVEN a low-maintenance, field-serviceable platform that balances endurance, reliability, and mission flexibility.**



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# HELIX FPV Series

## OVERVIEW

The HELIX FPV Series is a **family of compact, high-speed mini-drones engineered for short-range reconnaissance and tactical strike missions.** Agile and lightweight, HELIX platforms integrate advanced computer vision and flexible payloads, providing operators with rapid battlefield awareness and precision engagement capabilities.



## Key Features

- **Platform Variants:** Available in two models – **HELIX-7** and **HELIX-10**.
- **Computer Vision:** Proprietary Brightcom system for automated detection, tracking, and target re-tracing.
- **Optical + Thermal Feeds:** Seamless integration of EO and IR sensors for day/night operations.
- **Target Capture Range:** Large targets detected up to 200 m; small targets up to 50 m.
- **Operator Flexibility:** Cancel/retrace target functionality enhances mission adaptability.
- **Activation Board Safety:** Configurable for termination or recovery triggers (surface impact, operator command, mining mode, self-destruct, or power-off).

## Performance Specs

- **Maximum Flight Speed:** Up to 120 km/h
- **Tactical Flight Speed:** ~75 km/h
- **Flight Range (with relay station):** 12–13 km
- **Flight Duration:** Up to 12 minutes
- **Flight Ceiling:** Max 800 m / Tactical 50 m



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## Payload Options

- **HELIX-7:** Payload capacity 1.5 kg
- **HELIX-10:** Payload capacity 2.5 kg
- **HELIX-10 IR:** Integrated thermal camera + 2.5 kg payload

## Control & Interfaces

- **FPV Goggles:** Dual 1080p OLED micro-displays, integrated HD DVR, Anti-Fog ventilation, adjustable fit, HD Video Output via USB-C Connector.
- **Radio Controller:** Carbon-fiber body, hall gimbals, CNC precision parts, ExpressLRS + Crossfire compatibility, high-brightness LCD.
- **Secure Links:** Frequency-hopping + encrypted communication protocols for mission security.



## Mission Applications

- **Close-Range Recon:** Rapid situational awareness in urban or dense terrain.
- **Precision Strike:** Disposable strike capability with tactical payloads for high-risk missions.





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# THUNDERBOLT

## OVERVIEW

THUNDERBOLT is a **strike drone-bomber** of the copter type, equipped with bi-spectral (day and thermal) cameras and a system for carrying and dropping payloads.



## Key Features

- Dual payload release systems with detachable modules.
- Bi-spectral cameras (day + thermal) with 1080p EO (30 Hz, 9x zoom) and 640×512 thermal resolution for 24/7 operations.
- Azimuth return-to-base in case of electronic warfare suppression.
- Mission-based operation modes with secure GNSS support.

## Performance Specifications

- **Flight Range (RTB):** Up to 30 km
- **Flight Speed (with payload):** Up to 40 km/h
- **Flight Time (with payload):** Up to 20 minutes
- **Maximum Payload Capacity:** 15 kg
- **Flight Ceiling:** 500 m



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## Payload Options

- Precision strike systems (configurable).
- ISR modules (EO/IR).
- Supply drop kits.



## Control & Interfaces

- Ruggedized command tablet + control panel.
- GNSS module with enhanced interference resistance.
- Real-time mission monitoring and redundancy features.

## Mission Applications

- Tactical strikes and combat support.
- Emergency payload delivery.
- Intelligence and reconnaissance under EW conditions.



# TIBURON



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## OVERVIEW

The Tiburon is a resilient fixed-wing UAV designed for **long-range reconnaissance and surveillance**. With a 4-hour endurance and up to 80 km communication range, it provides unmatched intelligence capabilities for extended missions.



## Key Features

- *Gimbaled EO/IR payloads with long-distance detection (up to 53 km day, 8.7 km night).*
- *Advanced software with automated target tracking and stabilization.*
- *EW-resistant architecture ensuring reliable performance in contested zones.*
- *Seamless integration with other UAVs for coordinated missions.*

## Performance Specifications

- **Endurance:** Up to 4 hours
- **Max Flight Speed:** 130 km/h
- **Cruising Speed:** 75 km/h
- **Communication Range:** Up to 80 km
- **Ceiling:** 3,000 m
- **Flight Route:** Up to 250 km
- **Wingspan:** 3.4 m
- **MTOW:** 12.5 kg
- **Deployment Time:** 20–40 min
- **Relaunch Time:** 10 min



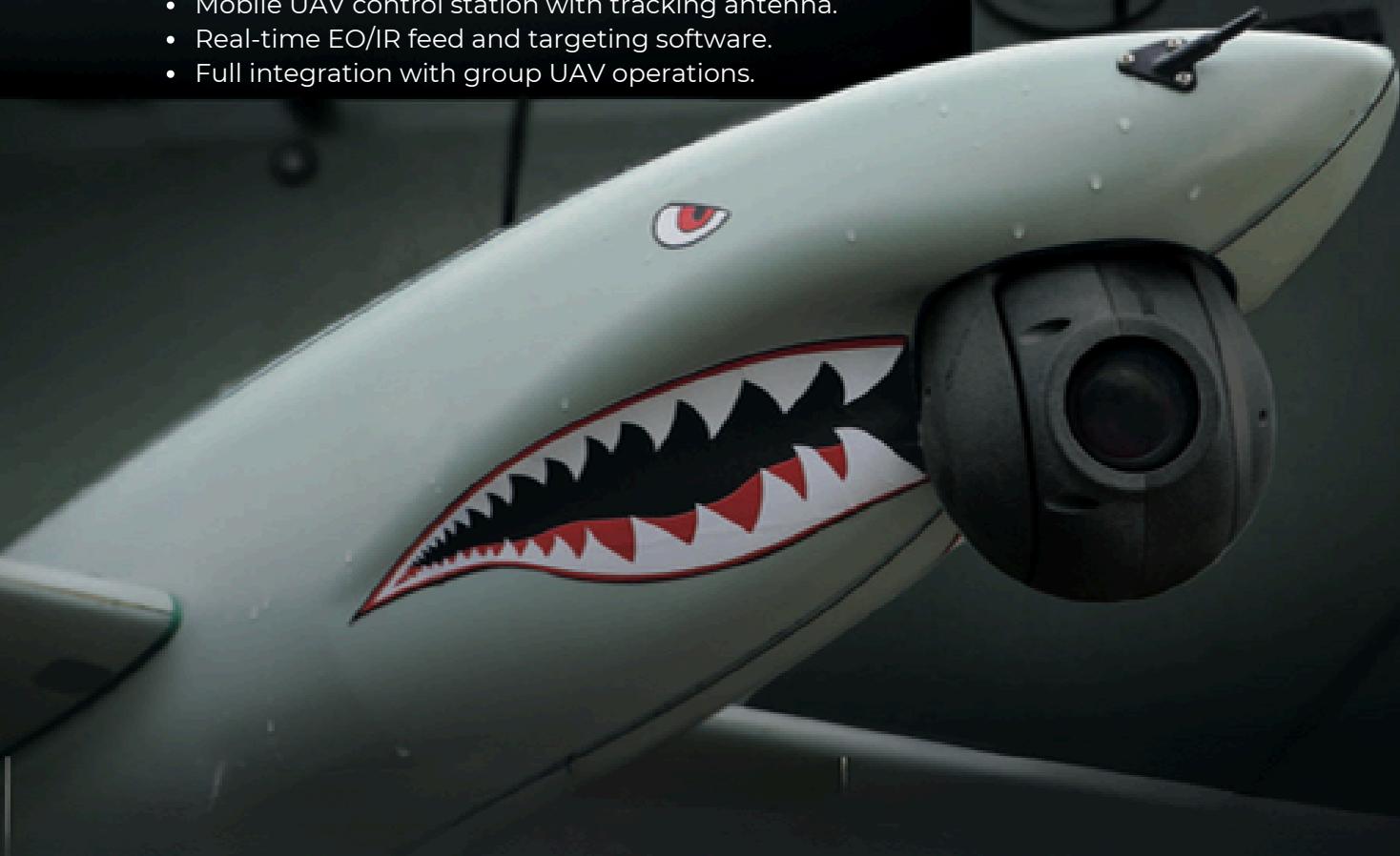
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## Payload Options

- **USG-231 EO:** Full HD 1920×1080, 30× optical zoom, 3× digital zoom, anti-fog.
- **USG-231 IR:** Thermal module 640×512, 4× digital zoom, 360° rotation.

## Control & Interfaces

- Mobile UAV control station with tracking antenna.
- Real-time EO/IR feed and targeting software.
- Full integration with group UAV operations.



## Mission Applications

- Long-range border surveillance.
- Persistent reconnaissance in contested areas.
- Strategic intelligence collection.



# MINI TIBURON



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## OVERVIEW

The Mini Tiburon is a portable, hand-launched UAV optimized for **fast-deployment reconnaissance missions**. Its lightweight build and intelligent software make it ideal for short-range, high-agility operations.



## Key Features

- Hand-launch capability, 5-minute assembly.
- Automatic belly landing for fast recovery.
- Compact, backpack-transportable design.
- EO/IR gimbal with 10x optical zoom and thermal imaging.
- Adaptive software that reduces operator load.

## Performance Specifications

- **Endurance:** Up to 2.5 hours
- **Max Flight Speed:** 120 km/h
- **Cruising Speed:** 55 km/h
- **Communication Range:** Up to 45 km
- **Flight Route:** Up to 150 km
- **Ceiling:** 3,000 m
- **MTOW:** 5.5 kg
- **Wingspan:** 2.6 m
- **Takeoff Weight:** 5.5 kg



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## Payload Options

- EO camera with 10× zoom.
- IR module with day/night thermal detection.

## Control & Interfaces

- Mobile control station with live feed.
- User-friendly mission planning software.
- Fits entirely into **two backpacks** for mobility.

## Mission Applications

- *Tactical field reconnaissance.*
- *Perimeter and border monitoring.*
- *Quick-response intelligence gathering.*





# UAV Portfolio Specifications

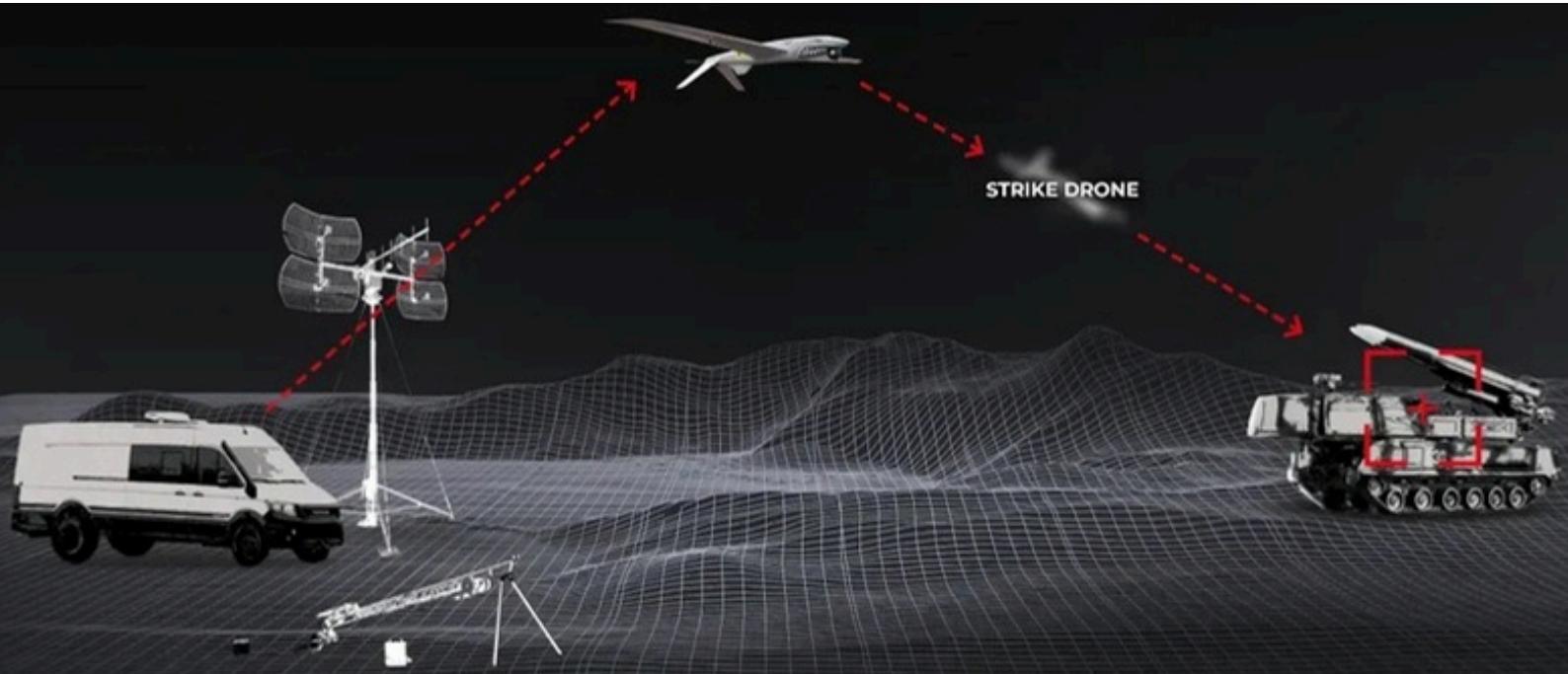
Model	Role	Payload	Endurance	Comms/ Range	Launch/ Recovery	Differentiator	Footprint
HELIX 7 / 10	Close Recon / Precision Strike	1.5 kg (H7) / 2.5 kg (H10)	12 min	12-13 km (relay supported)	Hand launch / FPV	<ul style="list-style-type: none"><li>Proprietary computer vision</li><li>Tactical payloads</li></ul>	Backpack portable
RAVEN	Strategic ISR / Multi-Mission	Up to 11 kg (19 kg in config)	8-10 hours	200+ km	VTOL / Runway / Catapult	<ul style="list-style-type: none"><li>Multi-configuration airframe</li><li>Anti-jamming</li><li>EW resilience</li></ul>	Vehicle / trailer system
THUNDERBOLT	Tactical Strike / Precision Bomber	Up to 15 kg (dual release)	20 min	Up to 30 km	VTOL Multirotor	<ul style="list-style-type: none"><li>Azimuth EW return</li><li>Dual payload release</li><li>Heavy strike</li></ul>	Portable case
TIBURON	Tactical Recon / ISR	EO/IR sensor suite	4 hours	Up to 80 km	Catapult / Parachute	<ul style="list-style-type: none"><li>All-weather resilience</li><li>Long-range</li><li>Day/night detection</li></ul>	Vehicle system
MINI-TIBURON	Man-portable Recon / Squad ISR	EO/IR gimbal payload	2.5 hours	Up to 45 km	Hand launch / Belly land	<ul style="list-style-type: none"><li>Packable (2 backpacks)</li><li>Easy 5-min assembly</li></ul>	Man-portable kit



# Use Cases & Applications



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## MILITARY ISR & STRIKE

Strategic intelligence gathering and precision strike capabilities for modern warfare scenarios.



## NATIONAL SECURITY OPERATIONS

Border surveillance, critical infrastructure protection, and domestic security operations.



## SPECIAL OPERATIONS

Conduct reconnaissance, rapid deployment, and precision operations in high-risk environments.



## DISASTER RELIEF

Search and rescue missions, rapid aerial mapping, damage assessment, and humanitarian aid delivery in crisis zones.



# Future Roadmap



## NEAR-TERM (1-2 YEARS)

- **Digital Twin Simulation:** High-fidelity mission sandbox enabling operators to virtually replicate real-world conditions before deployment.
- **Hyperspectral Payloads:** Expanded sensor suite for detailed target identification and material classification.
- **Improved Resilience:** Enhanced electronic warfare resistance and mission survivability.

## LONG-TERM (3-5 YEARS)

- **AI-Driven Counter-UAS:** Autonomous threat detection and neutralization systems.
- **Cross-Domain Operations:** Integrated coordination between autonomous air, land, and sea systems.
- **Fully Autonomous Swarms:** Self-organizing, self-healing UAV networks operating without human intervention.



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**Brightcom Defence is engineering  
tomorrow's battlespaces today.**



**Partner with us to redefine  
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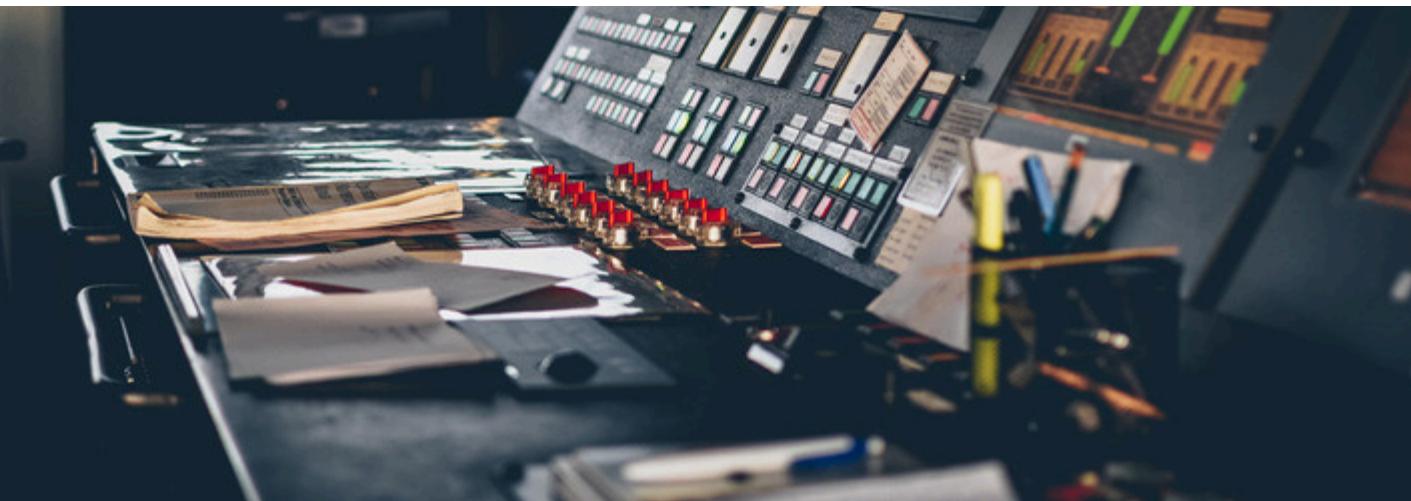


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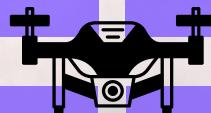
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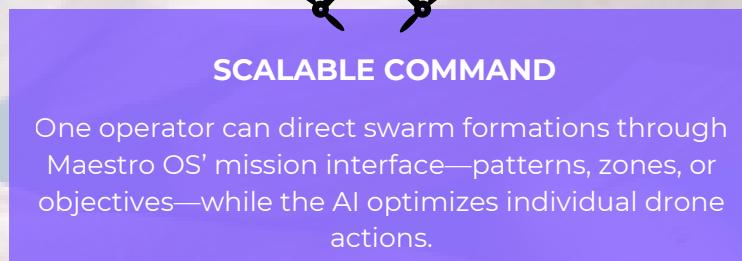
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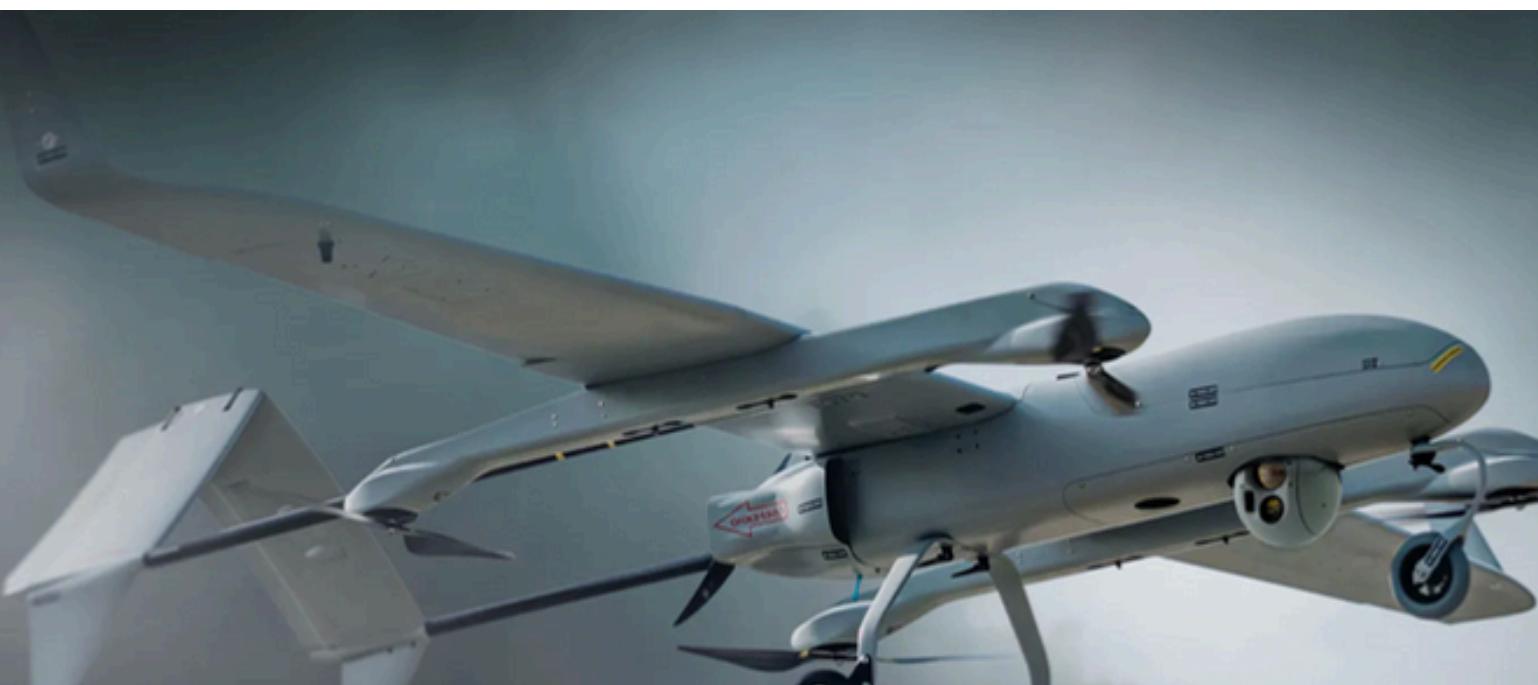
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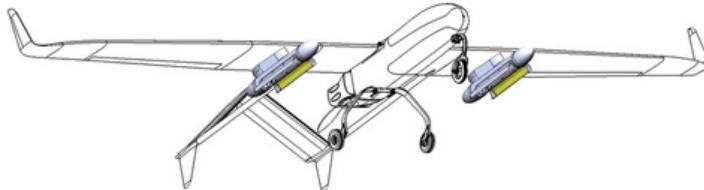
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- **Cargo/Resupply:** Supports supply delivery in remote or denied zones.
- **Special Ops:** Silent, stealth recon in high-risk terrains.



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## PAYOUT OPTIONS

### Standard Payloads

- **EO/IR Turret:** Full-HD EO/IR with 30× optical zoom, digital stabilization, scene lock, and anti-fog features.
- **Onboard Storage:** Recording and real-time streaming enabled.
- **Thermal/IR:** Optional integrated modules (USG-series).



### Advanced Modular Payloads

- **LiDAR:** High-resolution mapping for surveying, forestry, and geodesy.
- **SAR (Synthetic Aperture Radar):** All-weather, day/night imaging; frequency-adaptive to avoid signal attenuation.
- **IMSI Catcher:** Mobile phone interception for tracking enemy forces or smuggler movement.
- **Radio Repeater:** Extends secure communication range for ground troops.



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## ENGINE UNIT

The RAVEN's propulsion is based on a combat-proven 4-stroke carburetor gasoline engine, designed for reliability in harsh operational environments. Unlike fuel-injection units, the carburetor system is optimized to minimize points of failure and ensure performance even with low-quality fuel sources.



### Key Highlights

- 100 cc 4-stroke internal combustion engine.
- Remote start capability via GCS with a single button.
- **Emergency Start Feature:** automatic in-flight restart in case of failure.
- **Upgraded muffler** for reduced acoustic signature.
- **Temperature Control:** operates from -20°C to +50°C with intake sensors.
- Onboard **500 W generator** for powering mission payloads.
- Carburetor design ensures reliability at altitudes up to 5700 m, with tuning only needed every 6 months.

**This engine unit makes RAVEN a low-maintenance, field-serviceable platform that balances endurance, reliability, and mission flexibility.**



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# HELIX FPV Series

## OVERVIEW

The HELIX FPV Series is a **family of compact, high-speed mini-drones engineered for short-range reconnaissance and tactical strike missions.** Agile and lightweight, HELIX platforms integrate advanced computer vision and flexible payloads, providing operators with rapid battlefield awareness and precision engagement capabilities.



## Key Features

- **Platform Variants:** Available in two models – **HELIX-7** and **HELIX-10**.
- **Computer Vision:** Proprietary Brightcom system for automated detection, tracking, and target re-tracing.
- **Optical + Thermal Feeds:** Seamless integration of EO and IR sensors for day/night operations.
- **Target Capture Range:** Large targets detected up to 200 m; small targets up to 50 m.
- **Operator Flexibility:** Cancel/retrace target functionality enhances mission adaptability.
- **Activation Board Safety:** Configurable for termination or recovery triggers (surface impact, operator command, mining mode, self-destruct, or power-off).

## Performance Specs

- **Maximum Flight Speed:** Up to 120 km/h
- **Tactical Flight Speed:** ~75 km/h
- **Flight Range (with relay station):** 12–13 km
- **Flight Duration:** Up to 12 minutes
- **Flight Ceiling:** Max 800 m / Tactical 50 m



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## Payload Options

- **HELIX-7:** Payload capacity 1.5 kg
- **HELIX-10:** Payload capacity 2.5 kg
- **HELIX-10 IR:** Integrated thermal camera + 2.5 kg payload

## Control & Interfaces

- **FPV Goggles:** Dual 1080p OLED micro-displays, integrated HD DVR, Anti-Fog ventilation, adjustable fit, HD Video Output via USB-C Connector.
- **Radio Controller:** Carbon-fiber body, hall gimbals, CNC precision parts, ExpressLRS + Crossfire compatibility, high-brightness LCD.
- **Secure Links:** Frequency-hopping + encrypted communication protocols for mission security.



## Mission Applications

- **Close-Range Recon:** Rapid situational awareness in urban or dense terrain.
- **Precision Strike:** Disposable strike capability with tactical payloads for high-risk missions.





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# THUNDERBOLT

## OVERVIEW

THUNDERBOLT is a **strike drone-bomber** of the copter type, equipped with bi-spectral (day and thermal) cameras and a system for carrying and dropping payloads.



## Key Features

- Dual payload release systems with detachable modules.
- Bi-spectral cameras (day + thermal) with 1080p EO (30 Hz, 9x zoom) and 640×512 thermal resolution for 24/7 operations.
- Azimuth return-to-base in case of electronic warfare suppression.
- Mission-based operation modes with secure GNSS support.

## Performance Specifications

- **Flight Range (RTB):** Up to 30 km
- **Flight Speed (with payload):** Up to 40 km/h
- **Flight Time (with payload):** Up to 20 minutes
- **Maximum Payload Capacity:** 15 kg
- **Flight Ceiling:** 500 m



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## Payload Options

- Precision strike systems (configurable).
- ISR modules (EO/IR).
- Supply drop kits.



## Control & Interfaces

- Ruggedized command tablet + control panel.
- GNSS module with enhanced interference resistance.
- Real-time mission monitoring and redundancy features.

## Mission Applications

- Tactical strikes and combat support.
- Emergency payload delivery.
- Intelligence and reconnaissance under EW conditions.



## OVERVIEW

The Tiburon is a resilient fixed-wing UAV designed for **long-range reconnaissance and surveillance**. With a 4-hour endurance and up to 80 km communication range, it provides unmatched intelligence capabilities for extended missions.



## Key Features

- *Gimbaled EO/IR payloads with long-distance detection (up to 53 km day, 8.7 km night).*
- *Advanced software with automated target tracking and stabilization.*
- *EW-resistant architecture ensuring reliable performance in contested zones.*
- *Seamless integration with other UAVs for coordinated missions.*

## Performance Specifications

- **Endurance:** Up to 4 hours
- **Max Flight Speed:** 130 km/h
- **Cruising Speed:** 75 km/h
- **Communication Range:** Up to 80 km
- **Ceiling:** 3,000 m
- **Flight Route:** Up to 250 km
- **Wingspan:** 3.4 m
- **MTOW:** 12.5 kg
- **Deployment Time:** 20–40 min
- **Relaunch Time:** 10 min



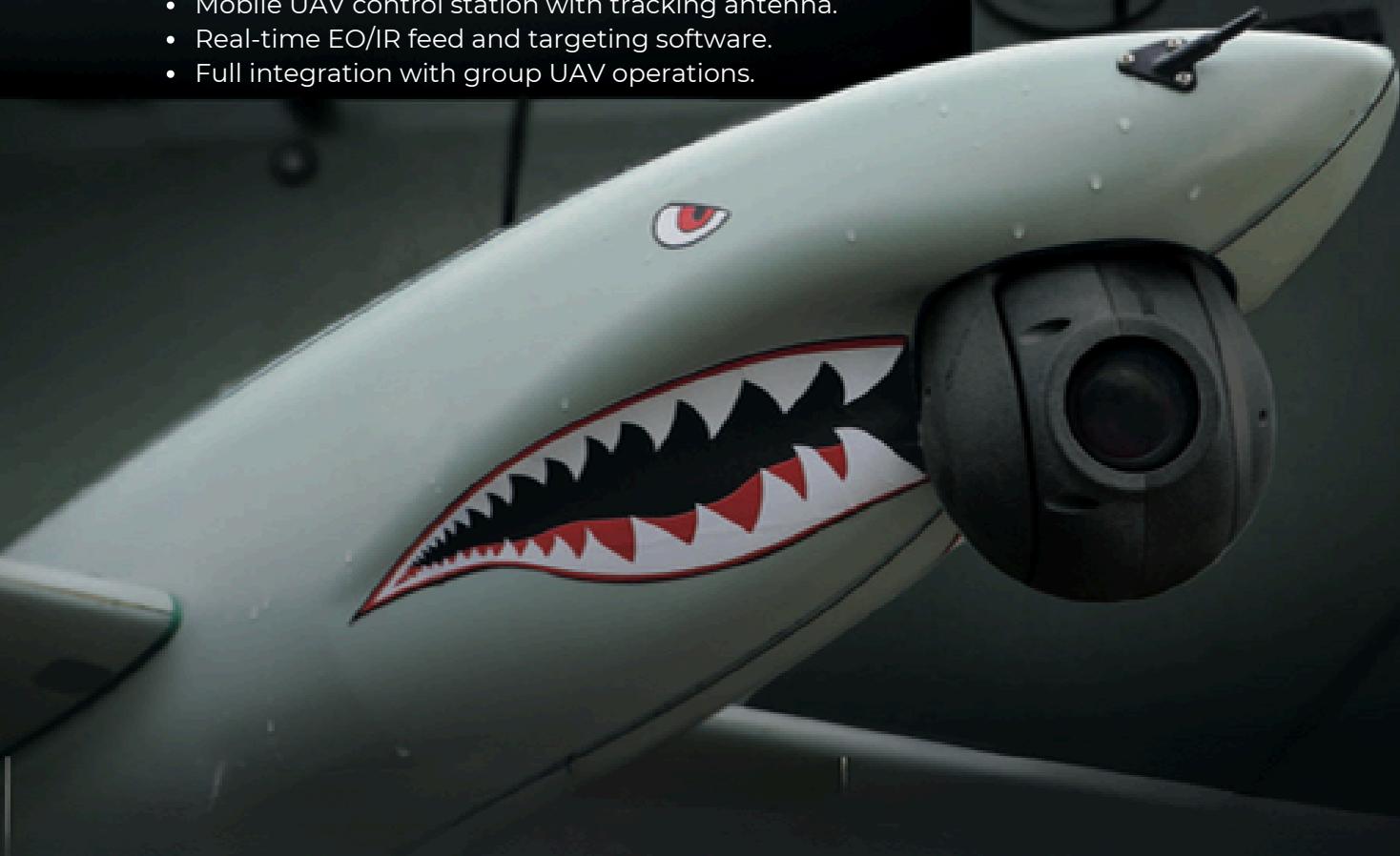
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## Payload Options

- **USG-231 EO:** Full HD 1920×1080, 30× optical zoom, 3× digital zoom, anti-fog.
- **USG-231 IR:** Thermal module 640×512, 4× digital zoom, 360° rotation.

## Control & Interfaces

- Mobile UAV control station with tracking antenna.
- Real-time EO/IR feed and targeting software.
- Full integration with group UAV operations.



## Mission Applications

- Long-range border surveillance.
- Persistent reconnaissance in contested areas.
- Strategic intelligence collection.



# MINI TIBURON



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## OVERVIEW

The Mini Tiburon is a portable, hand-launched UAV optimized for **fast-deployment reconnaissance missions**. Its lightweight build and intelligent software make it ideal for short-range, high-agility operations.



## Key Features

- Hand-launch capability, 5-minute assembly.
- Automatic belly landing for fast recovery.
- Compact, backpack-transportable design.
- EO/IR gimbal with 10x optical zoom and thermal imaging.
- Adaptive software that reduces operator load.

## Performance Specifications

- **Endurance:** Up to 2.5 hours
- **Max Flight Speed:** 120 km/h
- **Cruising Speed:** 55 km/h
- **Communication Range:** Up to 45 km
- **Flight Route:** Up to 150 km
- **Ceiling:** 3,000 m
- **MTOW:** 5.5 kg
- **Wingspan:** 2.6 m
- **Takeoff Weight:** 5.5 kg



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## Payload Options

- EO camera with 10× zoom.
- IR module with day/night thermal detection.

## Control & Interfaces

- Mobile control station with live feed.
- User-friendly mission planning software.
- Fits entirely into **two backpacks** for mobility.

## Mission Applications

- *Tactical field reconnaissance.*
- *Perimeter and border monitoring.*
- *Quick-response intelligence gathering.*





# UAV Portfolio Specifications

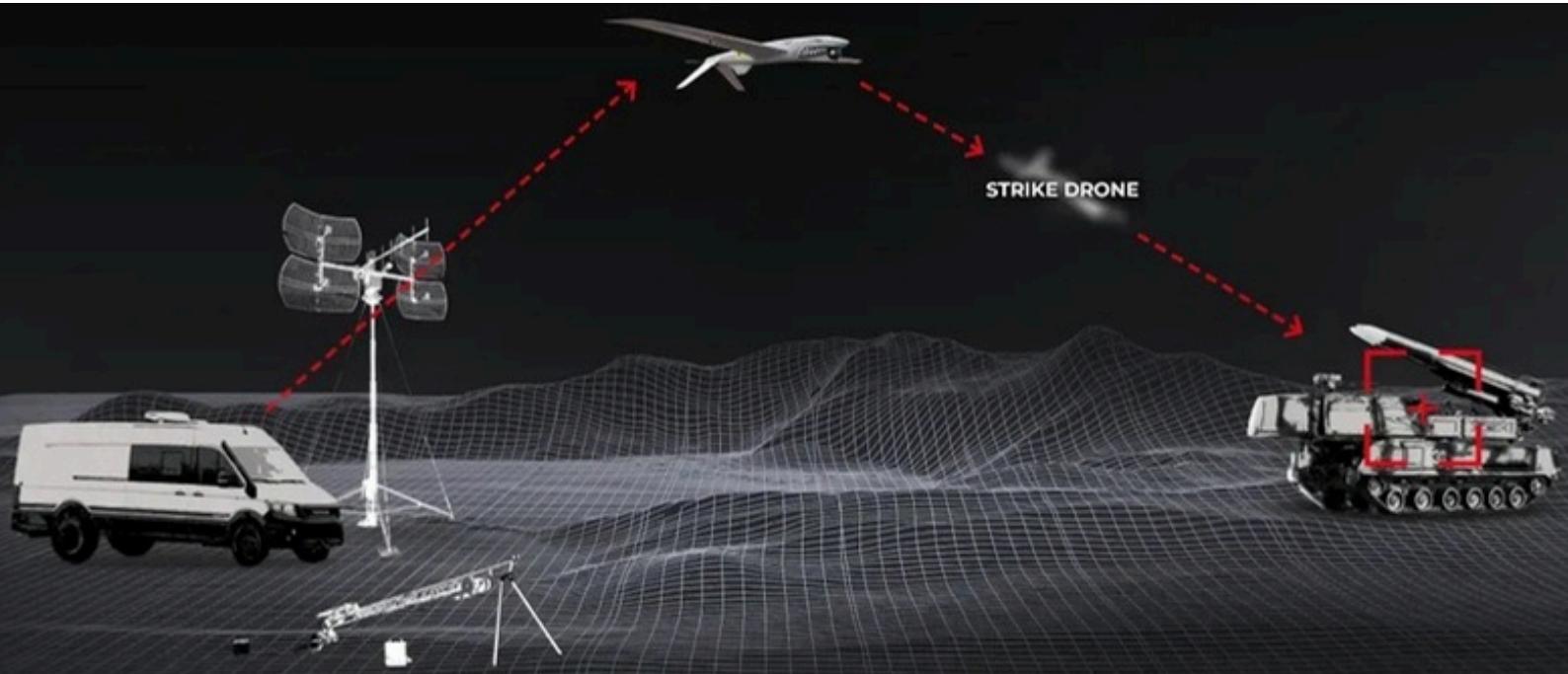
Model	Role	Payload	Endurance	Comms/ Range	Launch/ Recovery	Differentiator	Footprint
HELIX 7 / 10	Close Recon / Precision Strike	1.5 kg (H7) / 2.5 kg (H10)	12 min	12-13 km (relay supported)	Hand launch / FPV	<ul style="list-style-type: none"><li>Proprietary computer vision</li><li>Tactical payloads</li></ul>	Backpack portable
RAVEN	Strategic ISR / Multi-Mission	Up to 11 kg (19 kg in config)	8-10 hours	200+ km	VTOL / Runway / Catapult	<ul style="list-style-type: none"><li>Multi-configuration airframe</li><li>Anti-jamming</li><li>EW resilience</li></ul>	Vehicle / trailer system
THUNDERBOLT	Tactical Strike / Precision Bomber	Up to 15 kg (dual release)	20 min	Up to 30 km	VTOL Multirotor	<ul style="list-style-type: none"><li>Azimuth EW return</li><li>Dual payload release</li><li>Heavy strike</li></ul>	Portable case
TIBURON	Tactical Recon / ISR	EO/IR sensor suite	4 hours	Up to 80 km	Catapult / Parachute	<ul style="list-style-type: none"><li>All-weather resilience</li><li>Long-range</li><li>Day/night detection</li></ul>	Vehicle system
MINI-TIBURON	Man-portable Recon / Squad ISR	EO/IR gimbal payload	2.5 hours	Up to 45 km	Hand launch / Belly land	<ul style="list-style-type: none"><li>Packable (2 backpacks)</li><li>Easy 5-min assembly</li></ul>	Man-portable kit



# Use Cases & Applications



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## MILITARY ISR & STRIKE

Strategic intelligence gathering and precision strike capabilities for modern warfare scenarios.



## NATIONAL SECURITY OPERATIONS

Border surveillance, critical infrastructure protection, and domestic security operations.



## SPECIAL OPERATIONS

Conduct reconnaissance, rapid deployment, and precision operations in high-risk environments.



## DISASTER RELIEF

Search and rescue missions, rapid aerial mapping, damage assessment, and humanitarian aid delivery in crisis zones.



# Future Roadmap



## NEAR-TERM (1-2 YEARS)

- **Digital Twin Simulation:** High-fidelity mission sandbox enabling operators to virtually replicate real-world conditions before deployment.
- **Hyperspectral Payloads:** Expanded sensor suite for detailed target identification and material classification.
- **Improved Resilience:** Enhanced electronic warfare resistance and mission survivability.

## LONG-TERM (3-5 YEARS)

- **AI-Driven Counter-UAS:** Autonomous threat detection and neutralization systems.
- **Cross-Domain Operations:** Integrated coordination between autonomous air, land, and sea systems.
- **Fully Autonomous Swarms:** Self-organizing, self-healing UAV networks operating without human intervention.



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