

AERIALOOP



ALT6-ISR DRONE

Unlimited Command and Control Range
(Embedded LEO Satellite Antenna)

The ALT6-ISR is a next-generation VTOL platform specifically designed for ISR (Intelligence, Surveillance, and Reconnaissance) missions in complex environments. It supports fully autonomous flights, vertical takeoff and landing, and predefined waypoint navigation, significantly reducing the cost per patrolled kilometer compared to traditional drone systems.

Equipped with a 40× optical zoom day camera, advanced night vision, and a 3 km laser rangefinder, the ALT6-ISR delivers continuous, high-resolution, real-time surveillance. With an IP45 rating, wind resistance up to 15 m/s, rain capability, a maximum range of 110 km, and up to 99 minutes of endurance, it provides sustained air coverage for critical and remote operations.

The platform includes unique safety features such as quadruple redundancy, no single points of failure (including birdstrike resistance), and an integrated ballistic parachute. It is compatible with custom sensor payloads up to 2.5 kg, making it a versatile tool for law enforcement, industrial surveillance, infrastructure monitoring, and border control.

Its proprietary design includes an embedded LEO satellite antenna, enabling real-time video and data transmission with effectively unlimited range. This eliminates dependence on ground-based antennas and ensures persistent connectivity, even in the most remote areas—enabling true remote operations.



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ALT6-ISR

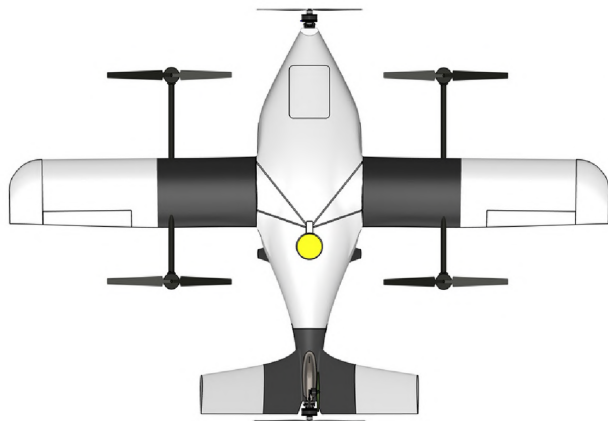
**Field-proven, MIL-STD, results-
driven, local manufacturing**



PROVEN TECH

Airframe with almost 50,000 flights,
Patrolling over 2,500 km a day, **every day.**

UNIQUE CAPABILITIES



Wingspan 3.56 m



Length 1.81 m

Embedded Satellite Antenna

Complete Starlink V3 Antenna in Fuselage, allows for unlimited data and telemetry range



Quadruple Redundancy

2X Tilting motors (Front and Back) ensure horizontal flight redundancy, and 6X Vertical flight redundancy.

Ballistic Parachute System



 videosoft

Remote Command and Control

Our cloud, LEO satellite and streaming services provide real time view and control of the camera and aircraft from anywhere in the planet.

TECH SPECS

ALT6-ISR PHYSICAL, OPERATIONAL AND SAFETY		
Configuration	ALT6-ISR XW (X Wingspan)	ALT6-ISR XBXW (X Battery X Wingspan)
Availability	Available Now	Available Now
Battery Size (1 Pack Included)	27.000mAh 12S	31.500mAh 12S
Type of Power	Fully electric	Fully electric
Maximun Range (km) (Ideal International Standard Atmosphere ISA, no Wind) (km) 95% Baterry Use, Single Flight, battery degradation.	80	110
Maximum Endurance (min) (Ideal International Standard Atmosphere ISA, no Wind) (km) 95% Battery Use, Single Flight	72	99
Operational Range (Km) (80% Battery Capacity Use) Sea Level (Km), Average Wind 5m/s, 500 Battery Cycles	60	82.5
Operational Endurance (Min) (80% Battery Capacity Use) Sea Level	54	74
Flight Speed	(18.5m/s) 66 km/h	(18.5m/s) 66 km/h
Wingspan	3.56 m	3.56 m
Wind Conditions Limits	Wind up to 15m/s, rain, day visual	Wind up to 15m/s, rain, day visual
Payload Volume	24L, 42cm x 42cm x 12cm (Height)	24L, 42cm x 42cm x 12cm (Height)
Redundancy	Quadruple flight redundancy and no single point of failure design	Quadruple flight redundancy and no single point of failure design

TECH SPECS

ALT6-ISR SENSORS, COMMS AND RATINGS	
Video Camera Payload	2 kg, A40TR-35: 40X AI autonomous-identification and automatic Tracking Camera, IR Thermal Night Vision Camera, 3km Laser Rangefinder Target GPS Coordinate Resolving
Comms Satellite Link (50 GB / month Included), extra 20 USD / GB	Starlink V3 Satellite Antenna LEO satcom embedded in airframe. Unlimited live communication range in most countries in the world. Average satellite connection of 30 mbit/s in all flight conditions.
IP Rating.	IP45 (4: Protection against objects > 1mm (Limited Sand Ingress). 5: Protection against light Rain)
Safety Systems	Ballistic Parachute System
Type of Flights	Fully automatic, preset waypoints
Data and Telemetry Access	Worldwide
Live Streaming (VideoSoft Included)	Live feed and camera control, live stream sharing ability with a link.
Comms Kit Relay (1 per Hub)	Backup LOS data link for telemetry up to 40km range from takeoff hub
Operator Requirements (1 per Hub required, NOT Included)	Previous drone operator experience & 3 week training by aerialoop (training not included in pricing)
Site Requirements for Operation (1 per Hub, NOT Included)	Energy AC 110V Clear landing zone 5x5m, no obstacles above, material to protect from sand and pebbles Physical security

OPERATING ENVELOPE

What really counts are **the proven results** in real-world conditions — these are warranted operating capabilities you can **plan your critical operations with.** (Not just paper specs in ideal conditions)

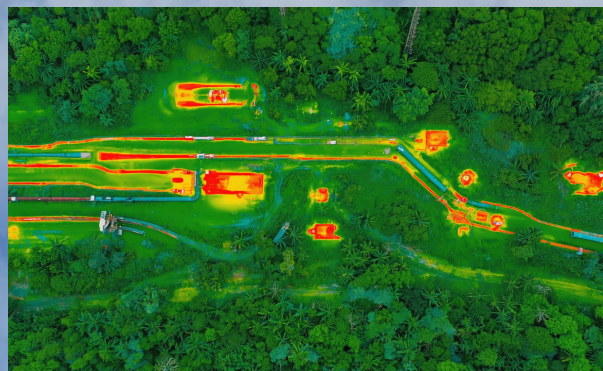
ALT6-ISR CONFIGURATIONS OPERATING ENVELOPE								
Drone Name	Flight Battery Size (mAh)	Safety Systems	Live Video Link	Live Video Range	Head Wind Conditions % in average ops	Altitude Above Sea Level	Flight Range	Flight Endurance
ALT6-ISR (XBXW)	63000	2X forward Flight	Herelink LOS	15 km	0.0 m/s (Ideal)	300 m	Limited by live video range	185 min
ALT6-ISR (XBXW)	31500	2X forward, 6X Vertical, Ballistic Parachute	Starlink V3 Antenna Embedded in Fuselage	1000+ Km	3.0 m/s (75% Ops)	300 m	79 km	76 min
ALT6-ISR (XBXW)	31500	2X forward, 6X Vertical, Ballistic Parachute	Starlink V3 Antenna Embedded in Fuselage	1000+ Km	5.0 m/s (90 % Ops)	300 m	69 km	76 min
ALT6-ISR (XBXW)	63000	2X forward Flights	Herelink LOS	15 km	0.0 m/s (Ideal)	2300 m	Limited by live video range	178 min
ALT6-ISR (XBXW)	31500	2X forward, 6X Vertical, Ballistic Parachute	Starlink V3 Antenna Embedded in Fuselage	1000+ Km	3.0 m/s (75% Ops)	2300 m	84 km	76 min
ALT6-ISR (XBXW)	31500	2X forward, 6X Vertical, Ballistic Parachute	Starlink V3 Antenna Embedded in Fuselage	1000+ Km	5.0 m/s (90 % Ops)	2300 m	75 km	76 min



REAL OPERATIONS

REAL RESULTS

Colombia Military
SierraCol
ODL
EcoPetrol
AndesPetroleum
Totem
PetroEcuador
Hexodrone
Difare
Servientrega



MORE THAN A DRONE

An intelligent aerial monitoring and surveillance system with AI video analytics, object tracking, object detection, ports and integral command centers.

Transform aerial data into critical insights, empowering decision-making across security, defense and public safety



LAB TESTED

Our drones are tested in a controlled lab using tailored methods based on MIL-STD-810H, covering the following conditions.

Accelerated life cycle testing ensures reliability and maintenance intervals aligned with real-world operations.

Altitude: Ops 0–4,000 m; Storage/Transport 0–4,000 m (Method 520.4) and 500.6

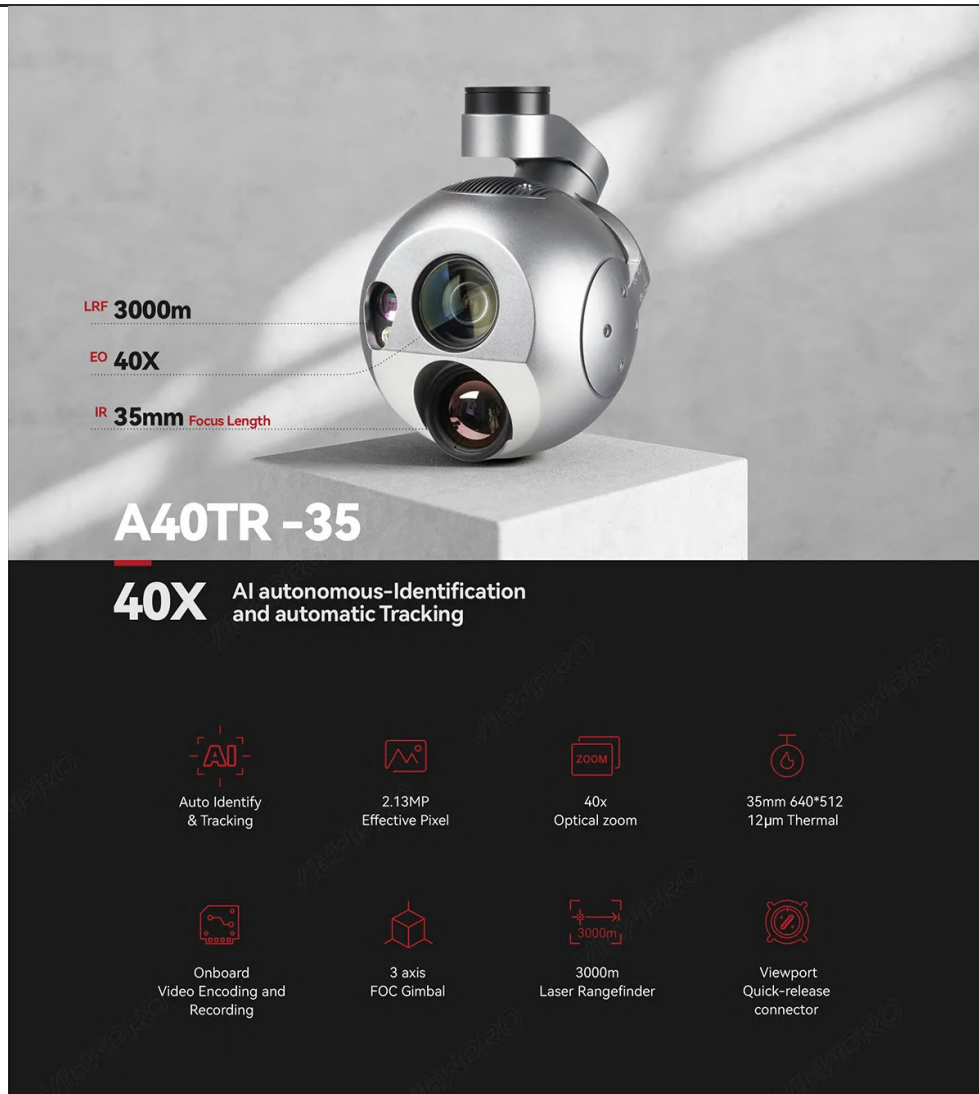
Temperature: Operational +10 °C...+40 °C; Storage/Transport +5 °C...+40 °C (Methods 501.7)

Rain/Water: Average EC conditions —qualified to Method 506.6 using Procedure I at rainfall/wind (≤ 1.7 mm/min, ≤ 18 m/s); heavy rain and thunderstorms are out of scope.

Humidity: Method 507.6, Procedure I (non-aggravated), 10×24 h cycles, up to ~95 % RH at ≤ 35 °C $\pm$ 2°C, with functional checks.

Transport (pickup, foam + hard case): Method 514.8(Vibration), Annex C, Category 4 (road-vehicle PSD) in accordance with 514.8C-4 a 514.8C-7.

ISR SENSOR



A40TR-35:

Visible Resolution HD 1920 x 1080,
Visible Zoom 40X Optical. 32X Digital

Thermal Resolution 640 x 512
Thermal Digital Zoom: 8x

Laser Range Finder: for car $\geq 3000\text{m}$; for
human $\geq 2000\text{m}$

AI: AI autonomous-Identification
Target GPS Coordinate Resolving
Camera Object Tracking

Environmental: Resistant to dust and water



LOCAL MANUFACTURING CERTIFICATIONS

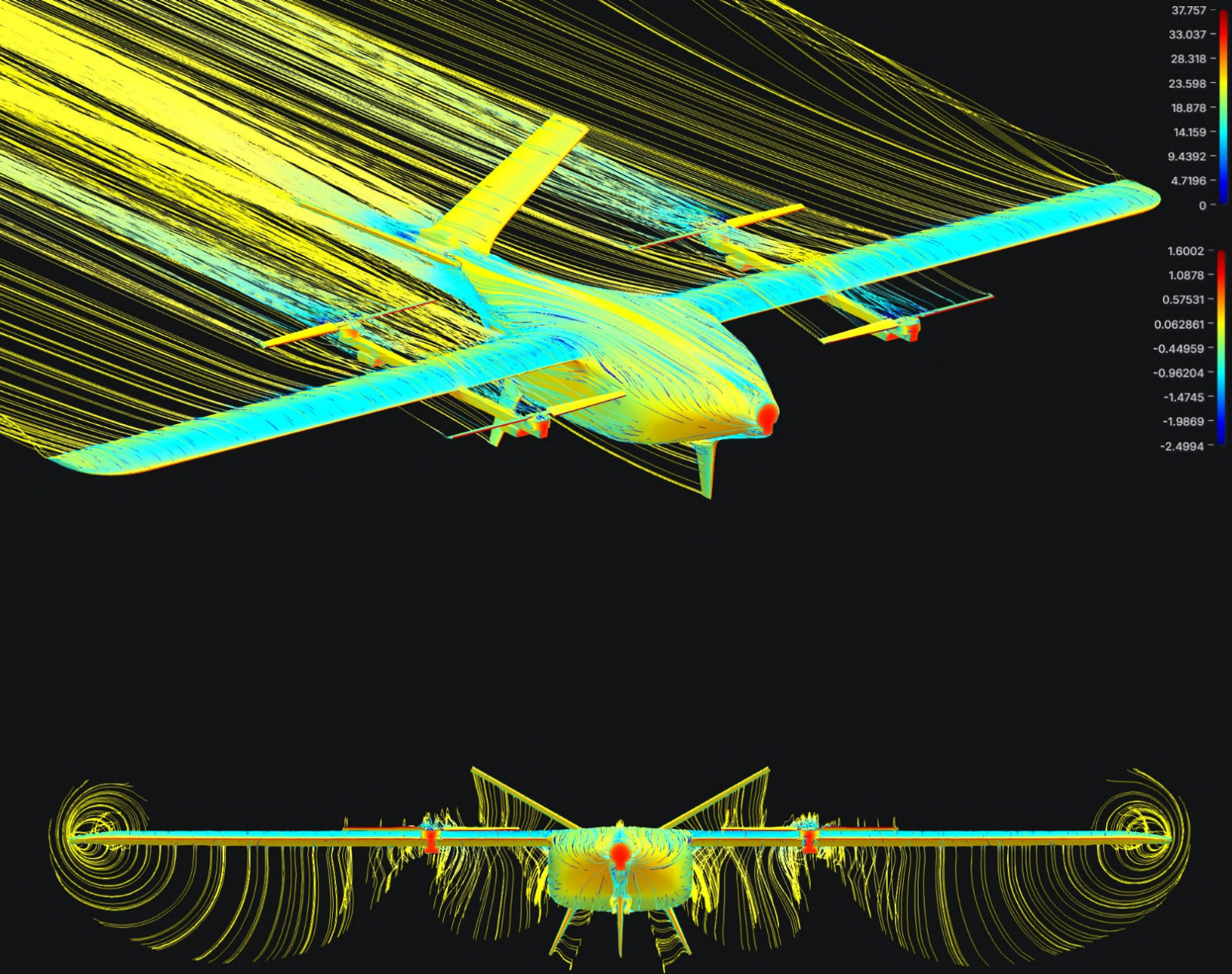
Factories in Medellin, Colombia and Quito Ecuador, manufacture proprietary drones from composites to electrical assemblies, with the highest quality standards. Local spare components are crucial for long term service support assurance.

Technology certified by Aeronáutica Civil de Colombia and Ecuador for ISR and delivery operations.



REMOTE OPERATIONS

Low latency live stream with VideoSoft, unlimited command and control range, ideal for remote and safe operations.



VERTICAL INTEGRATION

From aerodynamic design, MIL-STD-810H lab testing to ~50,000 flights and proprietary operational, autopilot and copilot software. Nothing left to chance on your critical mission.

About us

Aerialoop is at the forefront of AI-powered aerial robotics, building smart systems that goes far beyond traditional drones. Our advanced electric vertical take-off and landing (eVTOL) unmanned aerial systems are engineered to deliver automated, actionable aerial intelligence at scale. Our platform transforms live aerial data into critical insights, accelerating decision-making for security, public safety, and critical-infrastructure operators.

With edge computing on the aircraft, real-time analytics, and Starlink-enabled beyond-line-of-sight connectivity, Aerialoop brings aerial intelligence to your fingertips. With a team with over 20 years of experience, operating globally, Aerialoop's technology is trusted in demanding environments every day—supporting safer, smarter, and more resilient infrastructure.



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Aerialoop Corp | Miami , FL | www.aerialoop.com