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*Photo of KIHOMAC's Utah manufacturing complex

AGAMI

Modular Fixed-Wing Drone for Tactical Overmatch

Designed for mass production with mission-specific payloads

September 2026

In collaboration with Deloitte.

Agami

Group 1 Fixed-Wing UAS
Modular Tactical Platform

Agami is built to scale domestic production of fixed-wing Unmanned Aircraft Systems (UAS) offering a blend of affordability, flexibility, modularity and advanced performance for over the horizon capabilities. The platform base model includes an 8lb payload bay, frame, motor, battery, and First Person View (FPV) avionics. Mission-specific sensors / payloads available.

Basic specifications

MAX TAKEOFF WEIGHT	**20 lb**
MAX PAYLOAD	**8 lb (1 battery), 5 lb (2 batteries)**
WINGSPAN / LENGTH	**78 in / 46 in**
OPERATING SPEED RANGE	**50–140 mph**
MAX OPERATING ALTITUDE	**10,000 ft ASL**
MAX ENDURANCE	**100 min**
MAX DISTANCE	**100 mi**
WIND TOLERANCE	**30 mph**
DEPLOYMENT TIME	**<5 min**
TRANSPORT DIMENSIONS	**54.77 × 16.50 × 7.95 in**
FREQUENCIES USED	**SIK telem: 915 MHz** **Comms headset: 1.9GHz** **ELRS: 2.4 GHz** **FPV/Headset: 5.8GHz**

At Technology Readiness Level (TRL) 5, the base Agami provides a fully capable modular platform for over the horizon capabilities with a modular nosecone to provide flexibility in design to support the evolving needs of future missions.

Production & volume

Existing production capability to build 500/month with one assembly line for one shift, scalable to 10,000/month using federated manufacturing ecosystem.



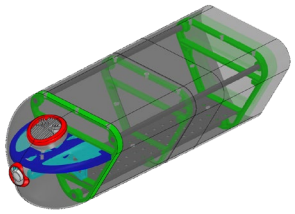
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Agami Payload Options

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Using Modular Open Systems Architecture (MOSA) for rapid multi-mission payload swaps, Agami leverages common platforms and subsystems shared with Drone Dominance, enabling right-to-repair and user modification flexibility. This flexibility and modularity improves mission effectiveness and reduces the overall cost.



Simple payloads reduce cost and enhance fielding, while our advanced integrations support greater autonomy.

Simple ----------→ ***Complex***

Simple Payload

Passive payloads



Payload: FPV (passive / independent)

Key Characteristics

- Simplified integration with minimal risk to avionics
- Payload is independent and self-contained
- Payloads swap without avionics re-certification (true MOSA benefit)
- No data interface between payload and avionics
- Payload can use craft's onboard power
- Smallest cyber/EW attack surface: no link into flight controls or shared data bus

Example

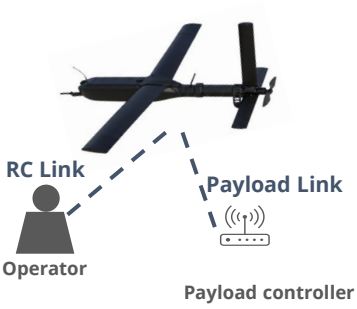
Passive sensors, package delivery

Considerations

Pilot controlled (Operational template)

Remote Operated Payload

Payload independently controlled



Payload: Comms relay (ind. ground radio)

Key Characteristics

- Some integration: reduced risk to avionics
- Payload has its own dedicated RF radio link
- Little connection between payload and aircraft avionics
- Payload can use craft's onboard power
- Separate ground station / operator control of payload
- Payload GCS can be remote from aircraft operator

Example

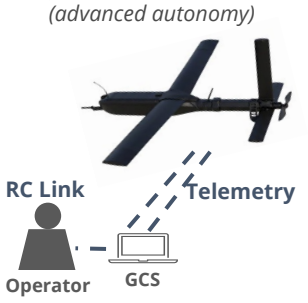
ISR relay, mesh radio node, EO/IR camera

Considerations

Additional coordination between pilot and payload operator

Autonomy Integration

Payload controlled via GCS (advanced autonomy)



Payload: Sensor (linked to avionics)

Key Characteristics

- Payload wired to avionics (MAVLink-M, UART)
- GCS commands payload over the telemetry link
- Payload data streams back to GCS operator
- Requires compatible hardware interface (Pixhawk, etc.)
- Single operator can control both aircraft and payload

Example

Onboard sensors, package delivery

Considerations

Complex integration, more communication links

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Future Versions of Agami

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To further the usability and capability of the Agami platform and support rapid deployment of critical capabilities, we continue to develop the Agami platform to support new use cases and launch mechanisms.

Comms relay (~Fall 2026)

EXTENDED-RANGE RELAY	Bridges ground links beyond direct line-of-sight
MULTI-BAND FREQUENCY HOPPING	Shifts bands to dodge jamming and congestion
MESH NETWORK NODE	Extends coverage by joining existing mesh networks
LOW-LATENCY BRIDGING	Passes voice, data and telemetry with minimal delay
RESILIENT LINK REDUNDANCY	Keeps connectivity if the primary link degrades
OPERATIONAL VALUE	• Extends C2 range in complex terrain • Interoperable with fielded MANET radios • Self-healing mesh reroutes on node loss
MISSION APPLICATIONS	• Airborne relay beyond line-of-sight • Backhauls ISR / FMV to the TOC • Restores comms in degraded areas



Persistent Systems MPU5 for reference only

ISR Capabilities (~Fall 2026)

GIMBALLED HIGH-POWER CAMERA	Stabilized zoom keeps distant targets sharp in flight
ONBOARD AI IMAGE PROCESSING	Detects, classifies and tracks objects without a ground link
ADAPTIVE DAY/NIGHT IMAGING	Wide dynamic range holds image quality in low light
AUTOMATED TARGET HAND-OFF	Sends tracked coordinates straight to flight control
BANDWIDTH-EFFICIENT TASKING	Transmits only relevant frames, easing comms-link load
OPERATIONAL VALUE	• Real-time FMV without larger assets • Onboard AI cuts workload & bandwidth • Swappable EO / IR gimbal per mission
MISSION APPLICATIONS	• Overwatch of routes, borders, sites • Cues targets in GPS / comms denial • Hands targets to Autonomy Brain



Autel gimbal camera for reference only

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Future Versions of Agami

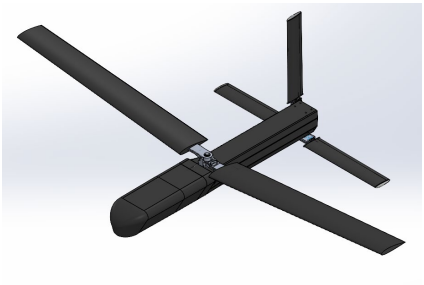
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Tubular launch version (~Fall 2026)

Launches from a tube canister with folding wings, enabling rapid deployment from confined spaces or moving vehicles without a runway. Enables remote operation and autonomous flight using long-range comms and DDIL operation.

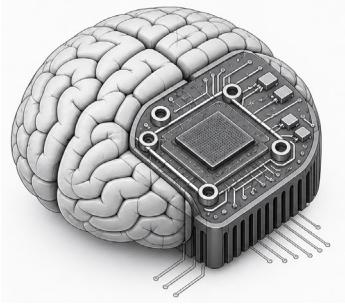
CANISTER-PACKED STORAGE	Wings fold flush inside a sealed tube
COLD-GAS EJECTION	Clears the tube with no rocket flash
VEHICLE/VESSEL COMPATIBLE	Fires from trucks, boats or fixed racks
RAPID SEQUENTIAL LAUNCH	Coordinated launch tubes enable fast, repeated fire
ALL-WEATHER SEALED TRANSPORT	Shields the airframe until launch
OPERATIONAL VALUE	• Tube-launched rapid deployment • Folding wings for compact storage • No runway or launch rail required
MISSION APPLICATIONS	• Salvo launch for swarming • Ship / vehicle-mounted ISR • Rapid-response ISR anywhere





Object Tracking and Autonomy with Autonomy Brain (~Fall 2026)

PERCEPTION COMPRESSION	Filters pixels into motion, edges, features, objects and structure
SENSOR FUSION	Combines camera, IMU, telemetry, GPS and mission context
IMU NOISE SUPPRESSION	Reduces accelerometer white noise, bias drift and accumulated error
CONFIDENCE-BASED AUTONOMY	Scores detection, navigation, tracking and sensor health
COST-EFFECTIVE EDGE COMPUTE	COTS/NDAA-conscious parts + optimized math
OPERATIONAL VALUE	• Tracks through GPS / comms denial • Cuts operator & datalink load
MISSION APPLICATIONS	• Autonomous follow of targets • Re-acquires after occlusion



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Autonomy Brain

Powered by ThreeO.ai

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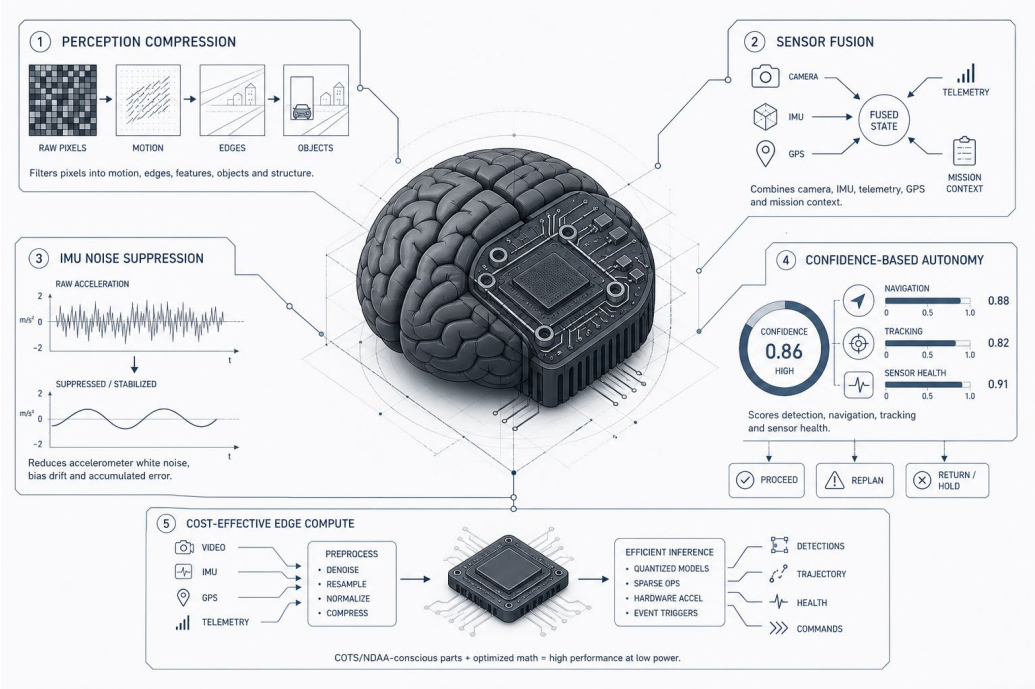
The airframe carries the mission. The flight controller flies the aircraft. The mission system coordinates the operation. The Brain gives the UAV intelligence at the edge. It sits above the flight controller and below the mission layer, turning raw sensor streams into mission-relevant intelligence.

Modular Autonomy Stack

AIRFRAME	QMX / KIHOMAC / approved platforms
FLIGHT CONTROL	Auterion / PX4 / ArduPilot-compatible
AUTONOMY BRAIN	Perception, VIO/VSLAM, edge AI
MISSON LAYER	Lattice-style command + workflows

Core Capabilities

- GPS-Denied Navigation
- VIO + VSLAM
- Onboard Object Detection
- ISR Hardening
- Flight-Controller Enhancement



Why It Wins

COST-EFFECTIVE AUTONOMY	Advanced perception with COTS/NDAA parts and optimized math
FASTER PROCESSING	Pixel reduction and feature selection reduce compute load
MODULAR INTEGRATION	Works with existing airframes, controllers, sensors and mission systems
GOV-READY PATH	NDAA-aligned part sourcing, Blue UAS pathway support, secure edge architecture



Auterion and Lattice references describe compatible architecture layers; no affiliation or endorsement implied unless separately agreed.

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Throughout the design process, Agami has been engineered with scale in mind. It can be built from raw materials to a flying craft in under 4 person-hours. Testing in Utah has validated performance in both cold and hot weather at high altitude, creating a strong foundation for mission payload integration.



Ki Ho Kang at ribbon-cutting ceremony for Georgia manufacturing site with Agami prototype



Initial Agami drone launched Y-tail used in Small Business Innovation Research (SBIR) Phase 2



August 2026 flight launch in Utah

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Delivering Secure, Agile, and Integrated Mission *Sustainment*

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