

WIDE AREA SURVEILLANCE PLATFORM (WASP) FOR COMBAT SOLDIERS

THE WASP

The WASP (Wide Area Surveillance Platform) by Avari Aero is a 145 gram 9.23 x 1.77 x 3.93 inch VTOL reconnaissance drone designed for Law Enforcement and Soldiers to rapidly gain situational awareness in their sphere of influence. Built upon the NDAA and Blue sUAS compliant framework, the WASP is highly portable in its tactical configuration easily fitting into a Molle Vest pouch, large pocket, or rucksack. Perfect for indoor flight or looking over immediate terrain obstacles, the WASP is capable of EO Video of 1920 x 1080 @ 30 fps, and Thermal Imaging video of 160 x 120 @ 60 fps.

The WASP is capable of 21 minutes of flight on a single battery and 59 minutes of flight total in a single hour in the tactical configuration. It has an operating range of 900 meters Line of Sight and 300 meters when no Line of Sight. For BVLOS operations the WASP range of operation is limited only by cellular connectivity. The WASP has a minimal signature. Visually the device can be colored to suit the operational environment minimizing risk of identification and is rated at 40db @30 meters for near silent operation in close proximity to hostile targets.

The WASP is available in multiple configurations depending on your compliance needs.

Compatible with Autonodyne Software Systems.

Native sUAS Control Features

- Stabilize
- Alt-Hold
- Loiter
- Auto-Land
- Emergency Kill (Power)

Base Package Software Features

- HUD View
- Task-based mission plans
- Screenshot capability
- Manual (virtual joystick) mode
- Mapping external physical control input
- Waypoint (FOT) navigation
- Hold capability (Freeze in place for VTOL, Racetrack loiter for Fixed Wing)
- Multiple Land / RTB options
- Single Sensor / Camera feed / display
- Integration with Microhard (any "normal" variant)
- Support for MavLink message sets
- AES 256 Datalink Support
- ATAK compatibility
- Operator alters
- Grid Overlay

APPLICATIONS

ISR / SITUATIONAL AWARENESS

BEYOND LINE OF SIGHT

FORCE PROTECTION

SEARCH & RESCUE

INCIDENT RESPONSE / DE-ESCALATION

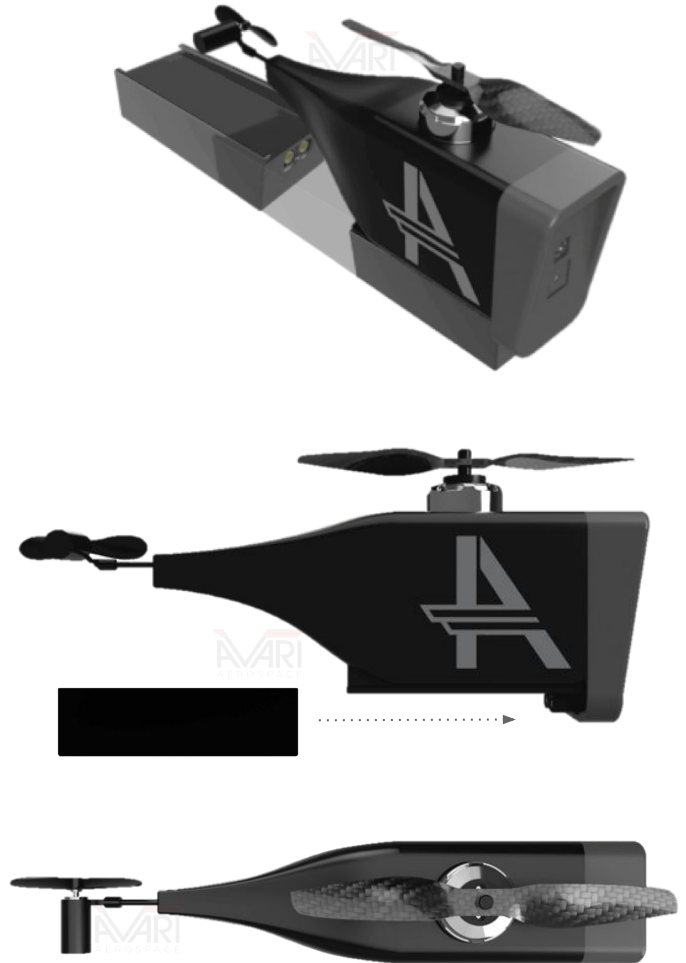
Due to export controls the configuration displayed is ITAR controlled. The WASP is available in FY20 NDAA Sec. 848 compliant and FY21 NDAA Sec. 84' compliant configurations.



SPECIFICATIONS

Item	Specifications
Rotor diameter	152 mm (6 in)
Total Length	9.23 in x 1.77 in x 3.93 in
Weight	145 grams
Payload	
Replaceable	Yes
Day Imager	EO and Thermal
Night Imager	Thermal and EO with user selectable LED light
Performance	
Endurance	Up to 21 minutes
Max Speed	6 m/s ground speed (~20 ft/sec)
Environment	
Temperature	-10°C to +60°C
Wind	15 knots / gust 20 knots
Precipitation	2.5 mm (.1 in) / hr (Light Rain)
Data Link	
Frequency	Details on request
Radio Range	500 ft Wifi (cellular where coverage)
Performance	Encrypted, dynamic power, frequency hopping, BVLOS
Resolution	
EO Video	1920 x 1080
EO Snapshot	Up to 3280 x 2464
Thermal Imaging Video	160 x 120
Thermal Imaging Snapshot	160 x 120
Flight Modes	
	Auto, Loiter, Alt-Hold, Stabilize
	Route and user selectable waypoint actions
	Automatic Return
	Lost Link
Navigation	
	GNSS Navigation
	Vision Based Navigation for GPS-denied and indoor operations
Mission Data	
	AES 256 encrypted video, snapshots, and metadata
	Removable 64GB SD-card for mission data AES 256
	STANAG 4586 Compliant*
	ATAK Compatible
Launch Time	
	30 - 60 seconds depending on launch mode

(*Requires ISR / Swarm Upgrade)



Included:

- (1) Tablet Controller
- (3) Quick Swap Batteries
- (1) Ruggedized Storage Case

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Contact Us For Pricing & Configuration Information

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Upgrades Available

ISR Behavior Software

- Track
- Surveil
- Circular Orbit
- Trajectory Planning
- Follow Me / It
- Inspect
- Observe

Swarm Behavior Software

- Multi-Vehicle Control
- Morphing Swarm
- Stack
- Lasso
- Energy Consumption Tracking

For More Information Contact

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Pricing and Specifications are subject to change without notice.