

HAWK-68 DELTAWING LOITERING AMMUNITION UAV

About HAWK-68

HAWK-68 a Fixed-Wing Autonomous Tactical Attack UAV is designed for both reconnaissance and surveillance and for striking targets outside the line of sight with high accuracy, can be carried by a single soldier, and can operate autonomously or with remote control.

HAWK-68 can be effectively used day and night against fixed or moving targets with the help of optional embedded and real-time image processing and deep learning algorithms that we have developed with in-house facilities.

The system is comprised of "Fixed-Wing UAV with Smart Ammunition System", "Launcher-Catapult" and "Ground Control Station" components. Payload capacity is 18 Kg and different types of standard munition can be mounted with adapter system and fuse drive. This is very important for changing munition for different mission scenarios. Possible to install normal 60, 80, 120 mm Mortar rounds fragmentation or similar ammunitions.

The ground control station suitcase can command many and select autonomous flights with waypoint maps or switch to semi-automatic flight on the last trip. Optionally, once mission up to 20 units can be manned with Ground Control Unit as well. Thanks to MESH capability of the integrated AVIONIC controllers.

Using the HD front camera to fly and hit the target and another payload camera below for surveillance and target detection during flight. Assembly in 30 minutes and ready to fly and its light and easy to assemble. PNEUMATIC CATAPULT LAUNCHER system with pneumatic supply for air compress required to launch. Launch with BOOSTER BOCKET can also be implemented upon request and is optional.

Total weight of HAWK-68 is 80 kg with payload MTOW Max. Take off Weight is 68Kg 4 Stroke Gasoline engine provides maximum efficiency. Flight range (Endurance) is 400km and Data Link is 30 Km for telemetry and video transmission. Long Range Data Link and Video transmission up to 100 Km with OMNI DIRECTIONAL ANTENNA TRACKER system is optionally available as well.

GNSS-denied environment in a limited time duration and specified accuracy – GNSS jamming attack up to about 20 sec (cruise speed about 60 km/h jammer distance about 5-10 km). Optionally, GPS Antijamming antenna with 2-4-8 Bands is also available

Dimensions : 1900 (l) x 1600 (w) mm.

MTOW : 80 Kg

Payload: 19 Kg

Catapult : 8m / 38 m/s speed / Pneumatic

Range : 400 Km (700 Km optional)

Datalink : 30 Km (100 Km optional)

Key Features

Reliable Day and Night Operation
Autonomous precision strike with
minimum collateral damage

Ultralightweith thermoforming
propriarity fuselage system

Tracking Moving Targets(*)

High Performance Navigation, Flight
Control and Guidance

Deployable and Operable
by Single Soldier

In-Flight Mission Abort and Emergen-
cy Self-Destruction Modes

Indigenous Electronic Ammunition
Safety, Setup and Trigger Systems

Indigenous Propriety Embedded
Hardware and Software

Wide Lateral View Angle Image Pro-
cessing-Based Control Applications

Embedded and Real-Time Object
Tracking, Detection
and Classification(*)

(*) Optionals

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