VIPER

Hovering Loitering Munition

Viper equips the dismounted soldier with a wearable, rugged immediate and autonomous hovering loitering munition.

Viper ALM (Aerial Loitering Munition) provides small tactical units (squad level and below) with a hovering, loitering precision-strike UAS for use against beyond-line-of-sight –BLOS) targets from both static, mobile positions with a low acoustic and low RCS signature.

Providing a significant aerial advantage, the VIPER's hovering capability enables aerial observation of targets in complex urban environments in which a conventional aircraft would be inefficient.

Providing ground forces with a real-time aerial capability to locate, track and attack targets, the VIPER uses AI capabilities to ensure minimal collateral damage.

SYSTEM APPLICATIONS

- Intelligence, surveillance, target acquisition and reconnaissance (ISTAR)

- Covert operations

- Battlefield damage assessment (BDA)

- Beyond line-of-sight reconnaissance

- Law enforcement, search & rescue rural firefighting and disaster response scenarios

- Force protection and convoy support

PRECISE TARGET ENGAGEMENT
Man in the loop and Wave-off capabilities

- **IMMEDIATE:** Widely distributed & ready to deploy in real time, on-demand

- **INTUITIVE:** A tactical, organic, easy-to-operate solution, no specialized training required

- **ROBUST:** A highly durable, combat proven solution suitable for extreme weather & battlefield conditions

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Size & Weight – System

Total size (Capsule)	400(L)X80(D)
System Weight (Drone + Capsule)	2,2 kg
Max. Take-Off weight	1,5kg

Performance

Mission Readiness	< 1 sec
Endurance	Up to 20 min
Max. speed	30m/sec
Max. Altitude (AGL)	Up to 3 000ft
Launch method	Handheld
Precision strike	0,5m CEP

Environment

Temp	–10°C to +50°C
Wind	Up to 20 Knots
Rain	3 mm/H

Navigation

GNSS Denied Areas   Last mile guidance

Image based navigation

Obstacle avoidance

Terrain following
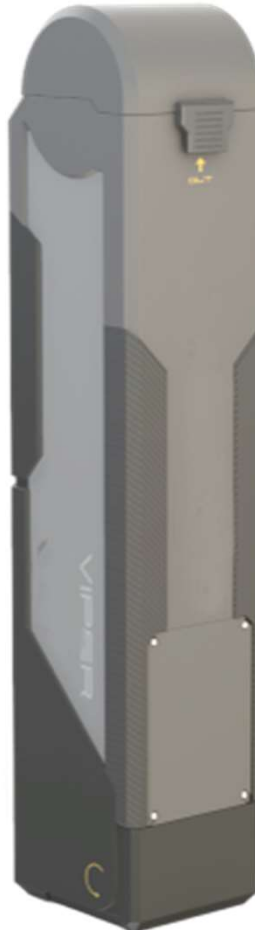
Safety

Kinetic Payload	Insensitive Munition S&A
Mission Abort / Safe return	
Wave-off capabilities	
Geo Fence	

Communication

Range	Up to 5km (LOS)
Frequency	Details on request
Encryption	AES 128/256
Network	P2MP

Flight Modes

One touch waypooints	Standard
Camera Guide	Standard
Automated logics	RTL / Land

Payload

Day & Night	Standard
Kinetic Payload	300g-400g
High precision	Low collateral damage
AI Capabilities	Classification & Tracking, ATR, Object detection

Ground Control System

Operation System	Android, Windows, Linux, ATAK
Hardware	10 or 6 inch ruggedized table
	Compatible to Samsung G20 tactical