RAFAEL
ADVANCED DEFENSE SYSTEMS LTD.



SPIKE® FIREFLY

Miniature Loitering Munition

Dominate the Urban Combat

Maneuvering ground forces operating in dense urban arenas face unique challenges. Situational awareness is limited, the enemy is fighting from behind cover, and the effectiveness of fire support elements is reduced by the close proximity of noncombatants.

SPIKE FIREFLY Loitering Munition (LM) is designed to meet these challenges head on by enhancing soldier lethality, enhancing situational awareness, and helping the warfighter dominate the urban fight. Lightweight and portable, the system can be carried and intuitively operated by a single operator.

Benefits

- Innovative, disruptive, battle-ready technology
- Extends infantry reach up to 5km
- Lethal BLOS (Beyond Line of Sight) attack capability
- Lightweight & portable
- Enhances situational awareness in urban combat
- Returnable to operator if target is not attacked
- Low visual and acoustic signature

Revolutionizing Ground Force Tactics through Advanced Technology

The weapon system kit includes 3 Loitering Munitions, a Control Unit consisting of a ruggedized tablet, and a backpack. The FIREFLY Loitering Munition includes a dual seeker (IR/CMOS), proximity sensors, military standard bidirectional data link, and a detachable warhead compartment allowing flexibility in training and storage.

FIREFLY's modes of operation include fly-by-waypoint and fly-by-video, in which the operator controls the LM heading by touch commands on the video itself, allowing intuitive operation. Once targets are detected, whether visible or Beyond Line of Sight, the operator locks onto them and attacks with pinpoint accuracy. The FIREFLY LM can be recalled back to the operator at any time before the final attack command is issued.



Vehicle Application

FIREFLY can also be supplied in a vehicle-mounted configuration, designed for IFVs (Infantry Fighting Vehicle). The integrated system enables the launch of FIREFLY LMs from within the IFV. The LM acts as an armed scout for the armored formation both as an effector for removing threats on the vehicle's path and as a recon asset for enhancement of situational awareness.



Technical Specifications

- Weight: LM – 2.2kg; CU – 2kg
- Engagement Range: Up to 5km
- Velocity: 60km/h (maneuvering), 70km/h (dive attack speed)
- Lethality: Blast fragmentation warhead
- Endurance: Armed –15 min, Recon – 30 min
- Round Dimensions: 80mm X 80mm X 400mm (LxDxH)



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