

**COMBAT
PROVEN**

SPYDER™ All-in-One

The All-in-One (AiO) configuration is the newest member of the SPYDER family, integrating all of the main functions of multiple, fully-fledged systems into a single 8x8 vehicle

Developed to address the critical operational needs of the modern battlefield, the SPYDER AiO provides an agile, autonomous, air defense asset, capable of rapid deployment within minutes, in challenging terrains, and with short reaction times. AiO provides reliable air defense with a minimized logistics footprint.

AiO is especially suitable for protecting critical assets including fielded and maneuvering troops, and sensitive sites. It is effective against a wide array of aerial threats, including fixed and rotary wing aircraft, UAVs, cruise missiles, and precision guided munitions.

Benefits

- Fully autonomous
- Very short reaction time
- External or self-generated RF & EO sensor-based situational awareness
- Unique, covert passive engagement mode with electro-optical sensors
- Cyber hardening
- Embedded trainer
- Minimum logistical footprint
- Commonality
- Reduced lifecycle costs, especially with SPYDER family assets
- Transportable by air

Operational Concept

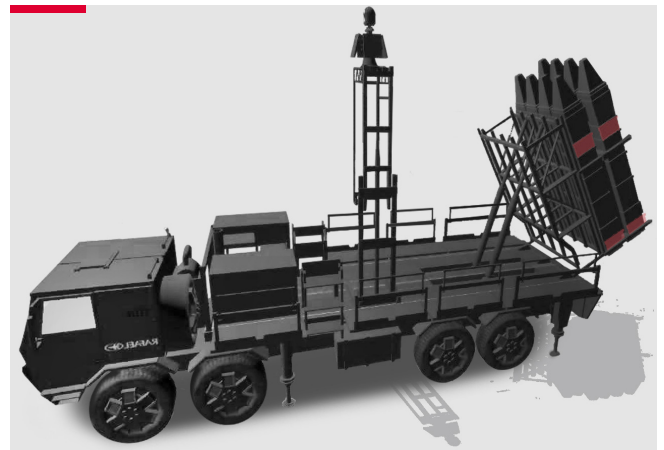
Capable of operating autonomously or interfaced on a higher echelon (C2), SPYDER AiO radars detect threats on the move (search-on-the-move) and quickly transitions into its fire-on-the-halt mode. When a threat is detected, or an order given, the vehicle halts, the stabilizing jacks extend, the radar extends to full height, and the launcher reaches a nearly vertical position, ready to fire, fire – all controlled from the Cabin Work Station and without requiring the crew to leave the vehicle's cabin.

Main Characteristics



Main Components

- Command & Control system
- Two Cabin Work Stations (CWS)
- Launcher
- Surveillance & fire control sensors on an erectable mast
- Four-panel, fully-phased 360° non-rotating surveillance & fire control radar array
- Daytime & nighttime surveillance & target acquisition electro-optical sensor (EOS)
- Up to eight canistered missiles, including I-Derby SR, I-Derby ER, & PYTHON-5 SR
- Power supply system
- 8x8 high-mobility wheeled vehicle chassis



Parameter	Value
Maximum missile range	40 km (I-Derby ER)
	20 km (I-Derby SR)
	15 km (Python-5 SR)
Maximum intercept altitude	12 km (I-Derby ER)
	9 km (I-Derby SR)
	6 km (Python-5 SR)
Maximum number of simultaneous target engagements / controlled missiles	4
Minimum time to change from mobility to combat readiness	3 minutes
Recovery time	3 minutes
Weight (including 8 missiles)	~ 30 tonnes



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