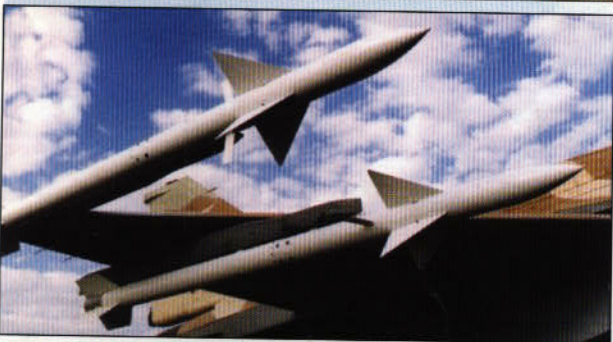


## Derby RAFAEL's New Radar - Guided Missile Showcased for the first time at the Paris Air Show in June



RAFAEL presented a new product from its air-to-air missile family, Derby - the advanced medium range missile. An active radar, all weather, all aspect missile, Derby enables engagement of several targets from short range to beyond visual range. The missile has two operating modes that provide the Derby with excellent operational flexibility: Lock-On-Before Launch for superior performance at short range, and Lock-On-After-Launch optimized for medium range.

With a large kinematic envelope and highly agile, the missile has a range of 63 km in an engagement at 25,000 feet. It is adaptable to various modern fighter aircraft, including lightweight aircraft such as F-5, Mirage and F-16.

The performance and operation of the Derby missile was demonstrated in RAFAEL'S air-to-air simulator together with the Python-4 - the most advanced short range air-to-air missile in service. Visitors were able to observe the unique trajectories of Python-4 at the extreme short ranges and Derby at medium ranges.

## Meeting New Threats

### RAFAEL and Raytheon Join Forces

For the first time, RAFAEL'S Missile Division and Raytheon Missile Systems have teamed up to market a missile. Together, the two parties have entered in to an agreement to market RAFAEL'S Black Sparrow medium-fidelity ballistic target missile to the US and other countries. The market, is believed to be hundreds of millions of dollars.

The air-launched Black Sparrow emulates the Scud-B, and is used by the Israel Air Force in intercept tests of the Arrow

Theatre Ballistic Missile defense system. The target missile can be carried on fighter aircraft including the F-15, F-4, F-111 and B-52.



At one tenth the cost of similar missiles, the Black Sparrow significantly reduces the price of testing, and is expected to corner a good deal of the mid-range target missile market. In particular, the Black Sparrow is an attractive to solution for open sea testing and where testing is limited by geographical constraints.