

The Elta EL/M 2106 ATAR 3D surveillance radar can simultaneously track up to 60 targets. The radar has 360° operation and all-weather day and night capability. The radar includes advanced electronic counter countermeasures (ECCM) for operation in dense hostile electronic warfare environments. The EL/M-2106 Advanced Tactical Acquisition Radar (ATAR) 3D Active electronically scanned array (AESA) surveillance radar is the Command and Control Unit (CCU) for the SPYDER-SR. This radar can track and engage multiple targets simultaneously and can control the missile firing units at a distance of up to 10 km away from the CCU. The E/LM-2106 ATAR is a fourth generation defense radar designed by Elta and operates in the L-band wavelength. It is a field proven design that has operated in undesirable environments according to the designers and manufacturers. The range of detection for a fighter aircraft is 70–110 km. It can detect hovering helicopters at a range of 40 km and UAVs at 40–60 km. The SPYDER-SR (short-range) system has 360° engagement capability and the missiles can be launched from the full-readiness state in less than five seconds from target confirmation. The kill range is from less than 1km to more than 15km and at altitudes from a minimum of 20m to a maximum of 9,000m. The system is capable of multi-target simultaneous engagement and also single, multiple and ripple firing, by day and night and in all weathers.