SPEWS-II
EW SELF PROTECTION SUITE
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The AN/ALQ-178 (V)5+ is an advanced, internally mounted self-protection system specifically designed for F-16 Block 50C aircrafts.

The AN/ALQ-178 (V)5+ is a proven integrated Radar Warning Receiver (RWR) and Electronic Countermeasures (ECM) Suite, providing the pilot with situational awareness and deceptive RF jamming. The AN/ALQ-178 (V)5+ provides intelligent control of chaff/flare dispenser systems for enhanced and coordinated ECM response.

The AN/ALQ-178 (V)5+ is flight-line programmable for mission adaptability. Program updates to the threat data library are achievable with the menu driven Multi Mission Data File Generator (MMDFG). Record Mode provides data collection for post-flight analysis supporting threat parametric value changes.

The AN/ALQ-178 (V)5+ was designed, tested and fully qualified in accordance with the full range of U.S. Military Specifications. Each and every system requirement has been verified with full participation of TurAF and the system performance of AN/ALQ-178 (V)5+ System has been tested on TurAF (Turkish Air Force) F-16 Block 50C aircrafts.

A comprehensive, Integrated Logistic Support system has been fully established for the AN/ALQ-178 (V)5+ System.

Reliable and Maintainable
• Proven Field MTBF
• High Mean Times between Failures (MTBF) and Low Mean Time to Repair (MTTR)
• Comprehensive Built-in-Test (BIT)
• O level maintenance with special design equipment and Built-in-Test
• I and D level maintenance with Automated Test Equipment Fully Qualified for aircraft compatibility
• SOF certification
• Avionics integration/compatibility
• Performance optimization

System Highlights
AN/ALQ-178 provides complete self-protection.
• Radar Warning Receiver (RWR) and All Ground Support Tools fully designed by ASELSAN
• System Integration & Activation in Aircrafts fully conducted by ASELSAN
• Power-managed electronic countermeasures
• Coordinated expendable dispensing (chaff/flare)
• RWR, ECM and expendables management in a single integrated system
• Flight-line reprogrammable
• Integral part of aircraft weapons system
• Fully integrated with on-board avionics
• Internal Installation
• Serial Production in Turkey
• Modular Design allows customization on other platforms

Radar Warning Receiver (RWR)
• Threat detection, pilot warning and automated countermeasure management
• Powerful and multi tasked multi-receiver structure (Superhet Receiver, Wide Band Receiver and Digital Receiver)
• Full capability against modern threats (high sensitivity, precise parameter measurement, fast response times, low false alarm rate)

Electronic Countermeasures (ECM)
• High Effective Radiated Power (ERP)
• Low Noise Multiple TWT to counter modern threats
• Electronic countermeasures against all radar threat types
• Simultaneous Multiple Threat Jamming

Countermeasures Dispensing System (CMDS-Chaff/Flare) Management
• Automatic control of chaff/flare countermeasure dispensers (converts preset dispensers into "Smart" computer controlled dispensers)