



EW BATTALION

R-ESM/R-ECM, C-ESM/C-ECM,
and C-UAS Systems



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The EW Battalion is a comprehensive solution that supports ground and air-defense forces in achieving electromagnetic spectrum dominance. It generates a continuous, comprehensive Situational Awareness Picture (SAP) and Electronic Order of Battle (EOB), and delivers force protection by using EW to neutralize a wide variety of threats and gain dominance in Electromagnetic Operations (EMO).

The EW Battalion comprises a suite of systems including Communications Electronic Support Measures and Countermeasures (C-ESM/C-ECM), Radar Electronic Support Measures and Countermeasures (R-ESM/R-ECM), Counter Unmanned Aerial Systems protection (C-UAS) and powerful Command and Control (C²) to coordinate the battalion's operation with mission planning and control. All systems are installed on mobile, self-contained combat vehicles.

The combined action of these systems enables the detection and tracking of enemy ground and airborne assets, and the denial of their real-time intelligence collection and targeting. It also helps prevent attack by a wide range of threats including fighter aircraft, Unmanned Combat Aerial Vehicles (UCAV), loitering munitions, and other advanced weapons. As a ground-based asset, the battalion offers continuous 24/7 operation.

The suite is highly modular. Systems can be selected as needed to meet specific force objectives - from a small and highly mobile EW squad to a full-featured EW battalion.

BATTALION SYSTEMS

C-ESM System (ELK-7072) intercepts, geolocates, and analyzes enemy communications networks and datalinks in dense and complex communication environments, including sophisticated frequency-agile networks. It features the proprietary compact Vector Sensor Array for compact geolocation of HF transmissions.

ComJam System (ELK-7009) provides full-spectrum, high-power multi-channel communications jamming, including advanced communications waveforms.

R-ESM System (ELL-8385) intercepts, classifies, accurately geolocates, and tracks emitters including radars and datalinks, in highly dense and complex signal environments. It detects and tracks Low Probability of Intercept (LPI) signals with very high sensitivity.

R-ECM is provided by the **Scorpius-G (ELL-8256SB)**, the breakthrough ECM system using ELTA's unique Staring Multibeam AESA (Active Electronic Scanning/ Staring Array) technology. Scorpius forms multiple simultaneous jamming beams. It represents a huge leap forward in electronic warfare and provides dramatically boosted sensitivity and EIRP for the long-range, simultaneous detection and jamming of multiple threats.

DroneGuard (ELI-4030) system provides long-range multi-channel C-UAS defense.

C² Vehicle manages all aspects of mission planning and execution. It provides a powerful tool for mission planning by analyzing terrain and optimizing the placement and mission assignments of the battalion's systems. It forms and updates the joint SAP and EOB, commands all battalion units, and coordinates EMO activities with other units and with higher echelons.

