

VWS

Family of Vehicle Warning Radar Systems for APS



- Full protection, generates 360° coverage
- Combines with Hard Kill and Soft Kill APS applications
- Initiates alerts and defensive response
- Installed on armored vehicles and stationary applications

The VWS Family of Vehicle Warning Radar Systems consists of two advanced radar systems that are combined with Active Protection Systems (APS) to deliver a full protection suite - installed on light and heavy armored vehicles and stationary applications.

Generating 360° coverage around the platform, the VWS continuously searches for potential threats, providing complete long-range, real-time coverage with a high probability of detection, and a very low FAR (False Alarm Rate).

Overview

The VWS systems automatically detect, acquire, track, classify and verify ATRs (Anti-Tank Rockets) and ATGMs (Anti-Tank Guided Missiles). Upon detection of a flying object, it calculates threat parameters and triggers the response by the APS - sending early alerts, and destroying the threat in Hard Kill Applications or initiating jamming in Soft Kill Applications.

Operational and field-proven, the compact and lightweight systems are easy to install and maintain, and can be upgraded to fit any new platform.

VWS 1 for Hard Kill Applications

VWS 1 - which integrates with the APS hard kill applications - detects and tracks ATRs and ATGMs, and transmits instructions to APS systems to initiate defensive actions to destroy the threat. The system provides precise details regarding the threat, including the time of interception.

VWS 2 for Soft Kill Applications

VWS 2 integrates with the APS soft kill applications and can identify, track, and divert smart guided missiles by initiating electronic jamming. The system provides exact threat details - including the angles of the missile and time-to-impact.

Main Features

- Extremely low FAR (False Alarm Rate)
- Operational and field-proven
- Triggers destruction of threats in real-time
- Automatic Detection, Acquisition, Tracking, Classification, and Verification
- Initializes warning and reaction only to threats to its own platform
- TTI (Time To Impact) calculation for optimal reaction
- ECCM techniques
- Self-Calibration
- Co-existence of several radars on nearby platforms
- Standard interface
- Bullet and fragment-proof ballistic antennas
- Easy integration with other systems
- Very cost effective, easy to install and maintain
- Compact and lightweight
- Upgradeable to fit any new platform

Technical Specifications

Parameter	VWS V1 Specifications	VWS V2 Specifications
Frequency Range	S Band	S Band
Total Az Coverage	360 °	360 °
Single Unit Azimuth Coverage	100 °	100 °
Single Unit Vertical Coverage	40 °	30 °
Detection Range	Up to 0.6 Km	Up to 2 Km
Target Velocity	Up to 600m/s	Up to 600m/s
Total System Weight	30 Kg	30 Kg