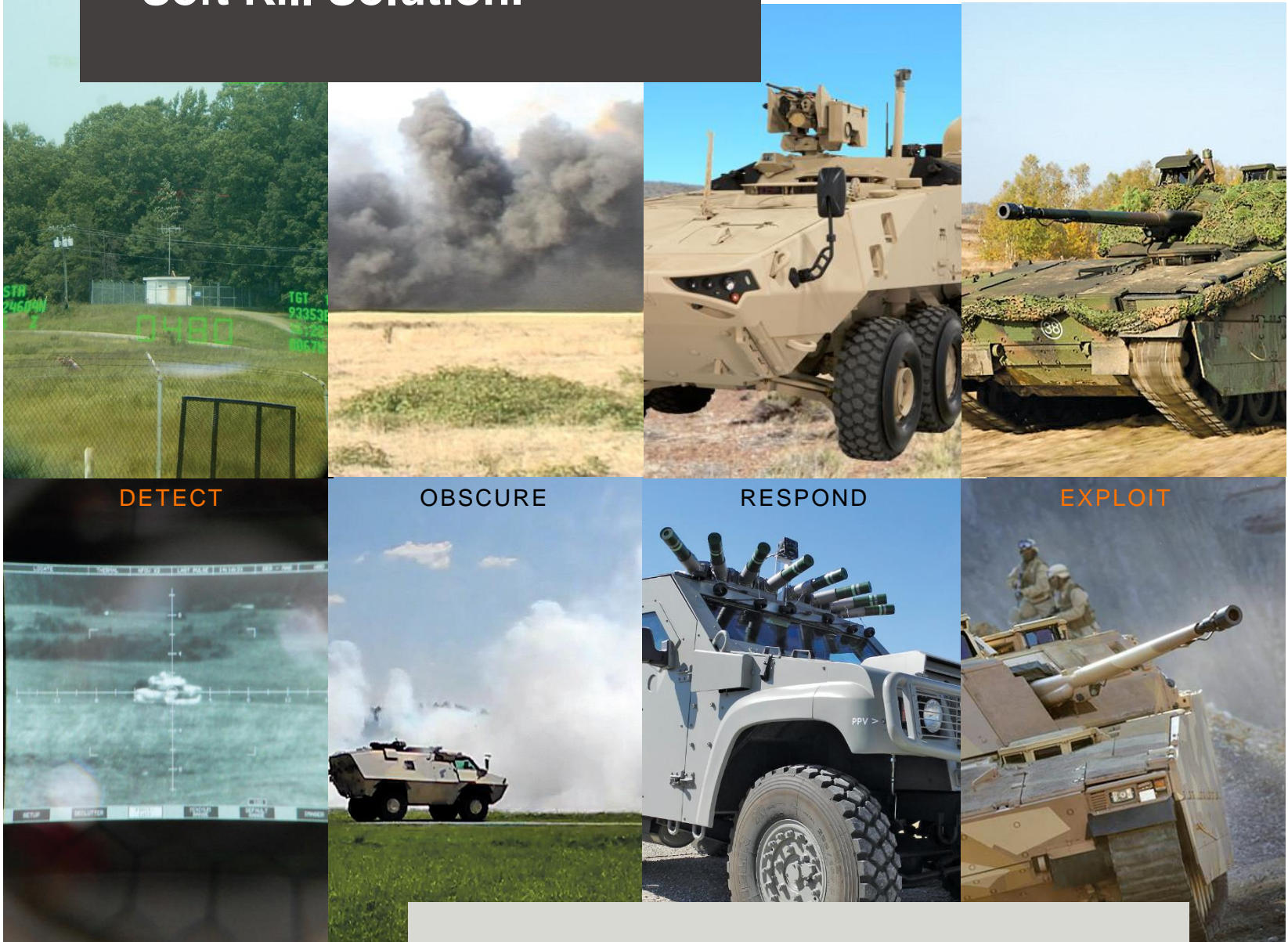


## LEDS-50 MK2

# The Intelligent Automated Soft Kill Solution.



DETECT

OBSCURE

RESPOND

EXPLOIT

Land Electronic Defence System (LEDS) 50 MK2 is an integrated, modular, Active Protection System consisting of a Laser Warning Sub-System (LWSS) and an Effector Control Sub-System

The solution provides combat personnel with vital situational awareness on laser threat engagements, countermeasures available, current protected/covered areas under dynamic conditions and allows for full automatic or manual responses against threats.

The response ranges from multispectral obscuration up to integrated 3rd Party Effectors.

# LEDS-50 MK2 The Intelligent Automated Soft Kill Solution

## LASER WARNING SUB-SYSTEM

The LWSS is an integrated, modular, Active Protection System consisting of Laser Warning Sensors (LWS), an Active Defence Controller (ADC) and an optional Human Machine Interface (HMI).

### THE CONTROLLER OFFERS

- Option to integrate to the host Battle Management System (BMS).
- Option to integrate to an external on-board smoke control unit (SAAB or 3rd party) to fire the on-board smoke grenades, manually or fully automated.
- Option to integrate to and cue other effectors (such as a Remote Weapon Station (RWS) or Infrared Red Jammer).

### FEATURES

The Solution offer the following features:

- Scalable Solution.
- Stand-alone or integrated mode of operation.
- Hemispherical coverage.
- Detects and Manages all known lasers associated with anti-armour threats.
- Threat management through user defined threat libraries. (classification and identification and library linked prioritisation).
- Threat reporting through visual and auditory means.
- Low false alarm rate, <1 in 24 hours.
- Unique anti-reflection capability.
- Built in Test capability.

## INTERFACES

The LWSS offers the following external interfaces:

- CAN Bus, Ethernet, RS422, USB channel, discrete lines.
- Audio with Audio Press-to-Talk channel.
- Countermeasure dispensing control and fire authorisation channels.
- On-board emitter blanking.
- Mil Std - 1275D Power Management.

## SPECIFICATIONS

The LWS Specifications are:

- Wavelength Coverage: 0.5 to 1.7µm.
- Threat Coverage: Laser Range Finders, Laser Target Designators, Laser Beam riders, Laser Dazzlers and Modulated Illuminators.
- AOA Azimuth LBR: 22.5° Resolution (Typical 11°- 15° RMS).
- AOA Azimuth Other: 7.5° Resolution (Typical 4°- 5° RMS).
- AOA Elevation: 0°, 45° or Top Attack.

## ONBOARD SMOKE CONTROL SUB-SYSTEM (OSCSS)

The OSCSS is an Effector Control Sub-System that consist of a Dispensing Controller and a Human Machine Interface.

### The Control offers:

- The option to integrate to the host platforms Battle Management System (BMS), Turret Position Indicator (TPI), Global Position System (GPS), Meteorological (MET) Sensor and Remote Weapon Station (RWS).
- The option to integrate to an external sensor suite (e.g. laser warning, radar, acoustic) that provides threat direction inputs.
- Integration to on board smoke tubes that are installed on a platform, turret, RWS, or any combination thereof.

## FEATURES

The features of OSCSS include the following:

- Multiple Tube Integration supporting Hemispherical coverage.
- Smoke Grenade Supplier, Type and Calibre Independent.
- Smoke tube Inventory Management.
- Automatic or Manual firing.
- Misfire Management.
- Area of responsibility Management.
- Built in Test capability.

### Interfaces:

The OSCSS offers the following interfaces:

- Analogue and Discrete Lines for Fire Control and Safety Management..
- CAN Bus, Ethernet, RS422, USB channels.
- Mil Std - 1275D Power Management.

## SPECIFICATIONS

The OSCSS Specifications are:

- Number of tubes: <48.
- Coverage: 360° depending on installation.
- Response Time: < 100 ms.
- Screening Time: Ammunition dependant.

## APPLICATIONS

These Solutions (LWSS and OSCSS) can be used on various platforms:

- Wheeled and Tracked platforms.
- Amphibious landing craft.
- Fast patrol craft – SF Operations.



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