

SPID

Spark Passive IR Detection System



Overview

SPID is a passive, IR-based (infrared), electro optical threat detection system for the protection of national border, high-value infrastructure, forward operating bases, and rapid deployment forces.

Incorporating the latest IR technologies, the SPID enables ultra-fast, high-precision, day and night detection of Anti-Tank Guided Missile and mortar launches. Upon detection, SPID analyzes the patterns, duration, and intensity - and classifies the threat type.

Utilizing sophisticated imaging and processing techniques, the system locates the precise spark source and identifies the shooting location for fast and efficient threat source elimination.

SPID consists of a wide Field Of View (FOV), high frame rate IR staring sensor, a processor, and a command and control unit with a real-time IR imaging display.

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Main Features

- Passive, IR-based (Infrared) detection
- Automatic detection of Anti-Tank Guided Missile and mortar launches
- Very accurate Direction Finding (DF)
- Multiple and simultaneous launch handling
- High probability of detection
- Low False Alarm Rate (FAR)
- Fast reaction time
- Day /Night operation
- Real-time wide Field Of View imaging display
- Low sensitivity to adverse weather conditions
- Automatic electro optical pan and tilt system cueing towards threat location
- SWaP- small Size, Weight and Power consumption



Performance

- Detection range of several kilometers
- Very narrow directional detection accuracy
- Angular coverage for a single module - 96° in azimuth, 36° in elevation
- Fast reaction time

Optional Field Deployment

- Fixed and mobile towers
- Tactical balloons
- Mast-mounted on vehicles
- Tripod-mounted (portable)



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