



ADVANCED CENTRIC SYSTEMS B.V

Sea / Air/ Land

OHFSS

OPTICAL HOSTILE FIRE SOURCE SENSOR



THE PROBLEM

One of the fundamental tasks of forces operating on the battlefield is suppressing enemy fire.

In order to effectively engage sources of enemy fire, these sources must be detected and located, then pointed out to the combat element for the desired response.

On today's battlefield, sources of enemy fire are difficult to pinpoint as they normally possess an extremely short life cycle. Enemy targets pop up, fire and promptly disappear to reemerge elsewhere.

Accordingly, combat elements require a system capable of detecting, locating and pointing hostile fire sources within a relevant time interval to enable effective response

THE SOLUTION

ACS presents OHFSS – Optical Hostile Fire Source Sensor.

OHFSS is a family of passive optical sensors designed specifically to detect and locate sources of hostile fire on the battlefield. The various OHFSS variants can detect and locate small arms fire, mortar fire, artillery fire, man-portable anti-tank rocket propelled grenade (RPG) launches, Anti-Tank Guided Missile (ATGM) launches and sniper fire.

The OHFSS unit provides an indication of the bearing to the fire source (azimuth and elevation) along with a classification of the threat. By combining multiple OHFSS units and using triangulation, hostile fire sources can be located very accurately.

OHFSS units may be installed as part of a self-protection system, where their function is to detect sources of incoming fire and trigger a responsive measure, or as a standalone detection system. Possible combinations include remotely-controlled weapon stations, soft-kill resources, command and control systems and active protection systems for armored vehicles.

KEY FEATURES & MAJOR ADVANTAGES

Key Features & Major Advantages

- Passive optical sensors designed to detect and locate sources of enemy fire
- Compactly encapsulated to fit various stationary and mobile installations
- Day and night operation
- Stand alone or array deployment
- Triggering or self-protection functions
- Three variants: coarse, standard and fine resolution
- Specifications, coarse variant
- Applications:
- Small arms fire
- ATGM & RPG launches
- Azimuth resolution: coarse (10°)
- Field of view: 190°x40° (single OHFSS unit); 360°x40° (two OHFSS units)
- Weight: less than 1kg
- Power consumption: less than 2W

- Specifications, standard variant
- Applications:
- ATGM & RPG launches
- Mortar & artillery fire
- Azimuth resolution: high (mRad)
- Field of view: 96°x60° (single OHFSS unit); 360°x60° (four OHFSS units)
- Weight: 4kg
- Power consumption: less than 30W
- Specifications, fine variant
- Applications:
- RPG launches
- Small arms & sniper fire
- Azimuth resolution: high (mRad)
- Field of view: 90°x30°
- Weight: 3kg
- Power consumption: less than 30W

