



HENSOLDT AMPS

Airborne Missile Protection System

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The Airborne Missile Protection System is a flexible stand-alone off-the-shelf self-protection suite for helicopters and fixed-wing aircraft.

It is capable of combining different kinds of warning sensors, countermeasures and other avionic equipment in order to protect the platform and its crew against a variety of threats as e.g. infrared-, laser- or radar guided missile threats. Its modular design allows AMPS to be easily adapted and configured to the specific operational needs and for different mission profiles. With currently about 2000 protected platforms in service globally HENSOLDT is a leading company for airborne self protection.

Dependent on the individual customer's needs and their distinct operational requirements, different configurations of the AMPS self-protection system can be realised by combining selected sub systems to provide the required protection - for military and civil operations.



AMPS – the modular system architecture

Sub systems which are integrated into AMPS:

- Missile Warning System (MWS)
- Active Confirmation System (ACS)
- Laser Warning System (LWS)
- Radar Warning System (RWS)
- Control and Display Unit (CDU)
- Counter Measure Dispenser System (CMDS)
- Directed Infrared Countermeasure (DIRCM)
- Inertial Attitude System (IAS)

MILDS – Missile Warning System

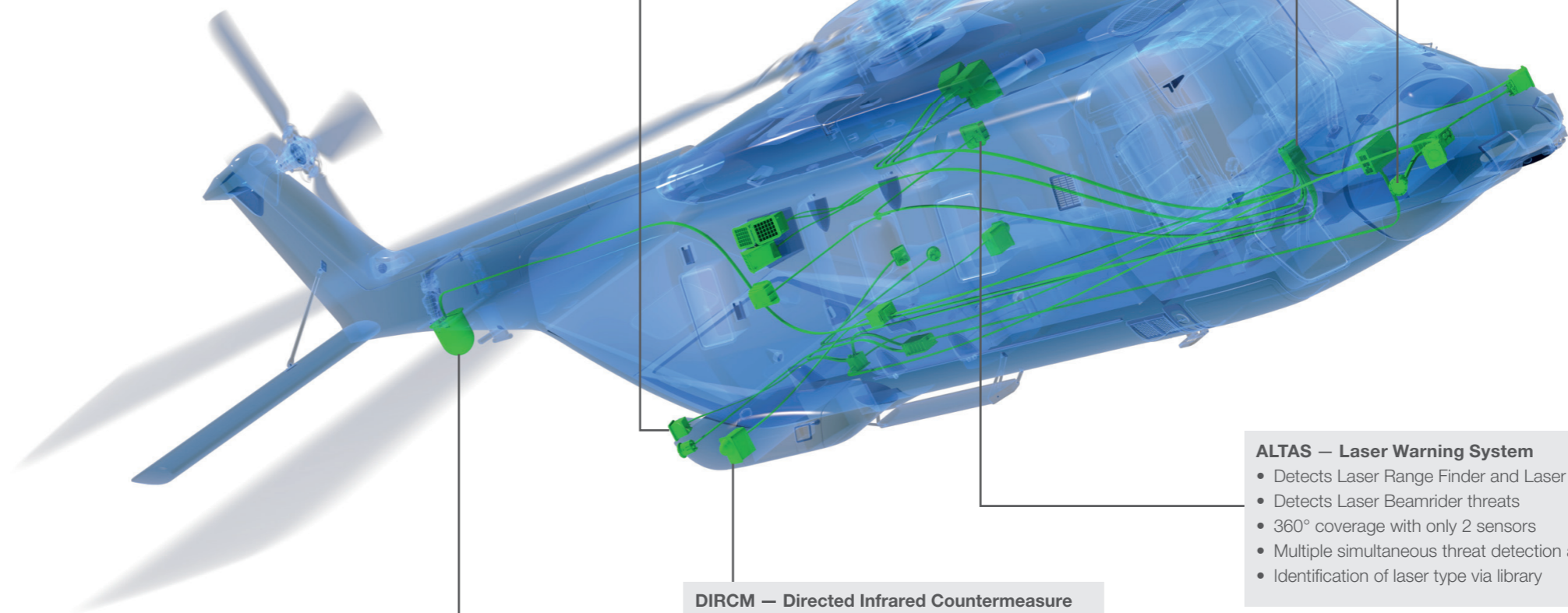
- Passive, true imaging, UV solar blind sensor device
- Hostile Fire Indication
- High spatial resolution
- Multi-threat handling
- A very low FAR
- High probability of detection
- No emissions from the sensors
- No cooling, short activation time

ACDU – Control and Display Unit

- Central gateway for control, display, processing, loading and recording
- Multiple communication interfaces and discrettes
- Fully integrated CMDS sequencing and control
- Supporting Multi-Functional-Displays
- Interface to Mission-Computers for data display, distribution and ACDU control
- Very high reliability
- Real-time threat alerts

Kalætron – Radar Warning System

- Ultra fast Radar threat classification and identification
- Superior detection range
- Ultra low false alarm rate
- Excellent COMS suppression
- Outstanding multi-signal capability
- Full C to K band coverage available
- High DF accuracy
- Adaptive filtering for HPRF emitters
- Extensive data recording from known and unknown emitters
- Enhanced situational awareness (ESM functions)



MACS – Active Confirmation System

- Determines missile distance, speed and time to impact
- Multi threat capability
- Eliminates false alarms

DIRCM – Directed Infrared Countermeasure

- Capable of short shots and double shots
- Compact and light weight
- Fast Time to Energy on Target (TEOT)
- Efficient due to high laser power
- 1- 3 DIRCM effector turrets

ALTAS – Laser Warning System

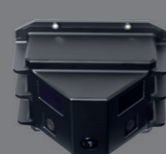
- Detects Laser Range Finder and Laser Target Designator threats
- Detects Laser Beamrider threats
- 360° coverage with only 2 sensors
- Multiple simultaneous threat detection and tracking
- Identification of laser type via library



MILDS – Missile Warning System



MACS – Active Confirmation System



ALTAS – Laser Warning System



Kalætron – Radar Warning System



ACDU – Control and Display Unit



CMDS – Counter Measure Dispenser System



DIRCM – Directed Infrared Countermeasure

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The Threat

It is recognised that there is an ever increasing level of hostile threats to Aircraft and Helicopters in both military operational and civil scenarios globally. According to estimates there are more than 500,000 shoulder launched surface to air missiles, Man-Portable Air Defence Systems (MANPADS) on the international market and due to conflicts many of these systems are now in the possession of non-state organizations and terrorists.

A high percentage of aircraft losses in the most recent operational areas were caused by Infrared, Surface-to-air Missiles (IR SAMs). In addition, laser and radar threats are increasingly prevalent in theatre of operations. To reliably detect these threats, AMPS can be configured with missile-, laser- and radar warning systems in order to guarantee the best possible protection through fast detection.

Key features

- Modular system architecture for individual operational needs
- Combat proven system
- Highest protection level
- Lowest number of equipment
- Easy installation / integration
- Complete Stand-Alone-Self-Protection-System
- No interfaces to mission or avionic systems required
- Very low weight and power consumption
- High reliability

HENSOLDT self-protection sensors and systems have been selected for numerous platforms like CH-47, C-130, CH-53, EH101, UH60, Mi-8, Mi-17, Mi-171, H145, EC155, EC635, Cougar, Puma, Panther, Bell 407, P3C, Cessna 208, King Air 200 ...



Watch this video about HENSOLDT AMPS – our Airborne Missile Protection System



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