

HENSOLDT Kalætron Attack

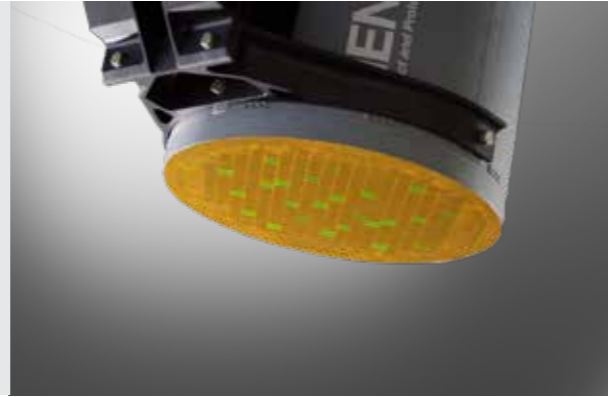
Core components

The core components of Kalætron attack are the enabler for multiple configurations:

- Stand-off jamming for mission aircraft
- Escort jamming for fighter aircraft

EW AESA

EW AESA with GaN solid state amplifiers
Instant multi-beam capability
Multi-threat in fast time multiplex
CW capability (100% duty cycle)
Different polarisations possible
Direction finding
Wide field of view
Inherent beam stabilization for agile flight manoeuvres



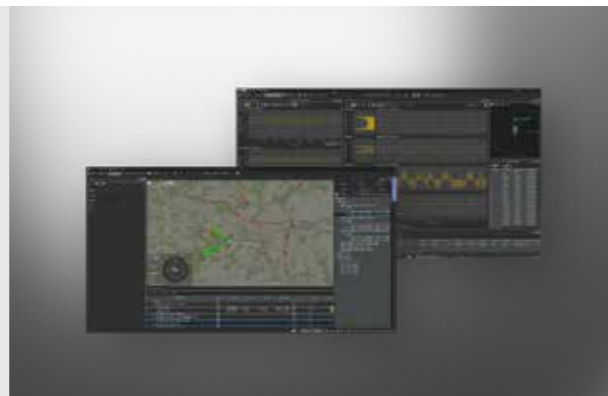
Digital Radio Frequency Memory (DRFM)

Included EA processor for mission management
Advanced jamming techniques generator
Wide instantaneous bandwidth
Interface to onboard ESM systems
Dual channel
Autonomous or user controlled jamming
Pulse and time domain samples streaming



Spectrum Battle Management Suite (SBMS)

Threat library generation
Mission planning
Intuitive map centric user interface
Post mission analysis
Integrated ESM functionality
Open architecture



Benefits

- Flight tested
- Highly scalable and adaptable architecture
- High EIRP enables stand-off range jamming
- AI-supported multi-target ident and attack
- Combinable jamming techniques
- Predictive PRI-tracking
- Proven software suite for all stages of mission



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Detect and Protect



HENSOLDT Kalætron Attack

Airborne jamming solutions

www.hensoldt.net



Disrupt enemy initiatives

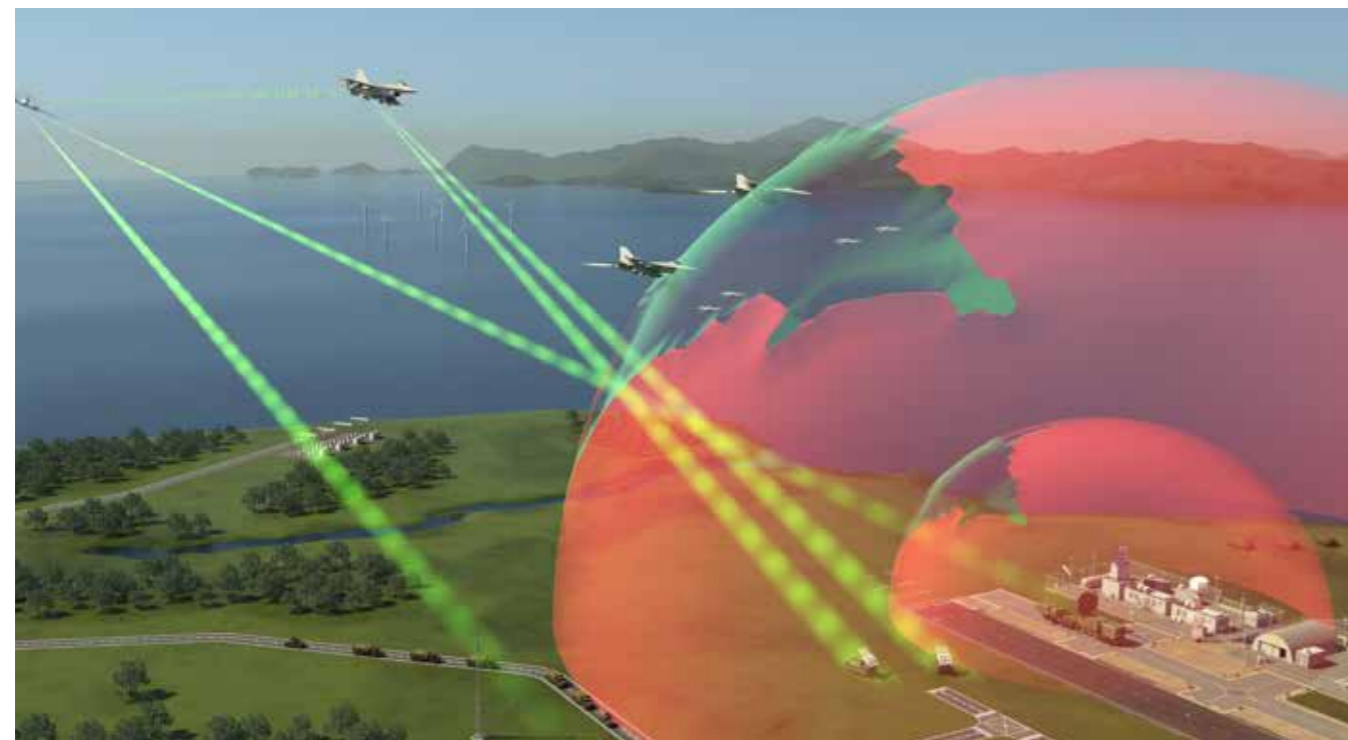
Air forces face increasing threats from networked and more complex air defence systems. Further, high-end electronic attack systems are essential to support Air-, Land- and Sea-based forces, to fulfill their tasks.

Therefore, we have developed Kalætron® Attack, a product line that is enabling spectrum dominance by utilizing the entire chain from receiving signals to suppressing hostile emitter.

Airborne Electronic Attack (AEA) capability enables freedom of movement in a contested electromagnetic environment (EME).

Temporarily disable, deceive, degrade and deny enemy capabilities in the electromagnetic spectrum.

Successfully degrade opponent's Air-, Land-, Sea- and Cyber capabilities to increase survivability and mission effectiveness of own forces.



Tasks

- Consistently and reliably manage and evaluate any electromagnetic activity
- Handle new types of signals and spectrum
- Identify hostile signals in contested and congested environments (military and civil)
- Interoperability with allied forces, e.g. NATO

Challenges

- Battlefield EMS superiority
- Joint EW operations complexity and interoperability requirements
- Combined integrated Radar and COMS capabilities
- Superior jamming techniques for spectrum dominance

HENSOLDT Kalætron Attack

Enabling spectrum dominance by airborne jamming

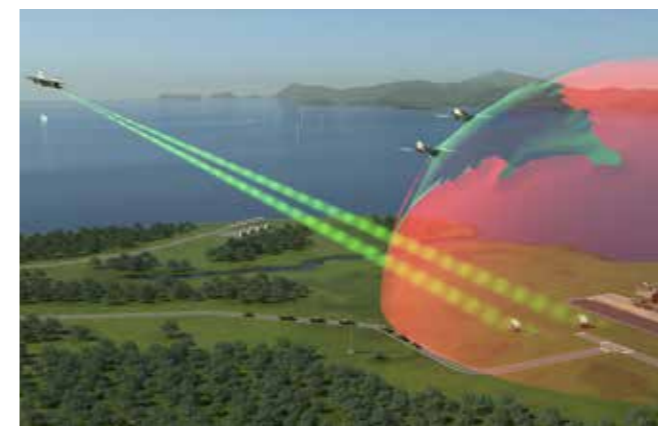
Airborne jamming enables freedom of movement for own forces by suppressing enemy air defence. Combining jamming of radar and communication signals with cutting edge hardware enhances the integration flexibility for a wide range of airborne platforms. Agile and open software architecture guarantees high performance and enables easy software enhancement and adaptation.

HENSOLDT as an aviation certified company provides turnkey jamming solutions leveraging key technologies and latest innovations.



Stand-off jamming

- Long distance jamming conducted outside weapon engagement zone (WEZ)
- Combined radar and comms jamming
- Software defined, modular and scalable technical solution
- Adaptable for different platforms
- In line with NATO demand and operational requirements



Escort jamming

- Gain spectrum dominance at the required distance
- Podded or integrated solution
- Protect own forces from enemy air defence systems
- Suppress or degrade opponents' electromagnetic capability
- Combined solution for ESM and ECM application



Stand-in jamming

- Enables missions / operations in close proximity to hostile air defence systems
- Complements airborne jamming solutions
- Preemptive EW measures to counter battlefield threats
- Software defined, modular and scalable solutions