

B-**SAVED** concept

Bio-inspired Smart Autonomous Visual Event Detector



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B-**SAVED** is an **intelligent, highly secure Unattended Ground Sensor (UGS)** concept. B-**SAVED** monitors the surrounding area, **detects, analyses** and **classifies** in real-time events and threats. **Short, high-value** and **coded** messages are directly transmitted to the warfighter or the security personnel, as a decision aid. B-**SAVED** operates with a **knowledge base**, which replicates the operator expertise on the battlefield, through a simple learning process.



Pan & Tilt head with detailed (foveal) vision
High performance recognition and analysis focused on suspicious events

B-**SAVED** permanent peripheral vision
Versatile 120° change detection and movement analysis

On-chip Artificial Intelligence for fast event recognition at sensor level



Benefits

- Smart system for secure situational awareness
- Easy to deploy
- Passive multisensor system
- Hardened by design against compromise

Up-coming B-**SAVED** 2.0: another leap forward

- Real-time high-level analysis
 - o Peripheral view: detection up-to 200 m (human movement)
 - o Foveal view: recognition up-to 200 m (human signature)
- Knowledge base easily and limitless adapted to mission
- Robust against environment changes
- Generic perception system for embedded applications
- Autonomy: > 3 days

Applications

- Intelligence
- Area surveillance
- Localisation and tracking of targets

**« AAT - Ingénieur Général CHANSON »
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