



STAWS SURVEILLANCE TARGET ACQUISITION AND WEAPON SIGHT

The Surveillance Target Acquisition and Weapon Sight (STAWS), produced by SELEX Galileo, is an integrated, passive, multispectral sighting system designed for use with the latest generation of Remote Controlled Weapon Systems (RCWS).

Unlike most STA sensors, which consist of a number of discrete devices, STAWS uses an integrated system architecture. This provides a 24-hour, all weather surveillance and targeting capability operated from below armour. STAWS provides many operational advantages, including built-in growth potential, leading to significant benefits in maintainability and supportability, resulting in the lowest possible product life cycle costs.

The STAWS sight utilises advanced uncooled thermal imaging technology. Combined with a high-resolution daylight sensor, STAWS provides a 24-hour all weather surveillance and target acquisition capability. To maintain its competitive advantage, STAWS has been designed with a growth path to accept technology insertion. This includes larger format 640 x 480 uncooled detectors for extended range performance.

In its basic form, STAWS uses a stadiametric non-laser based

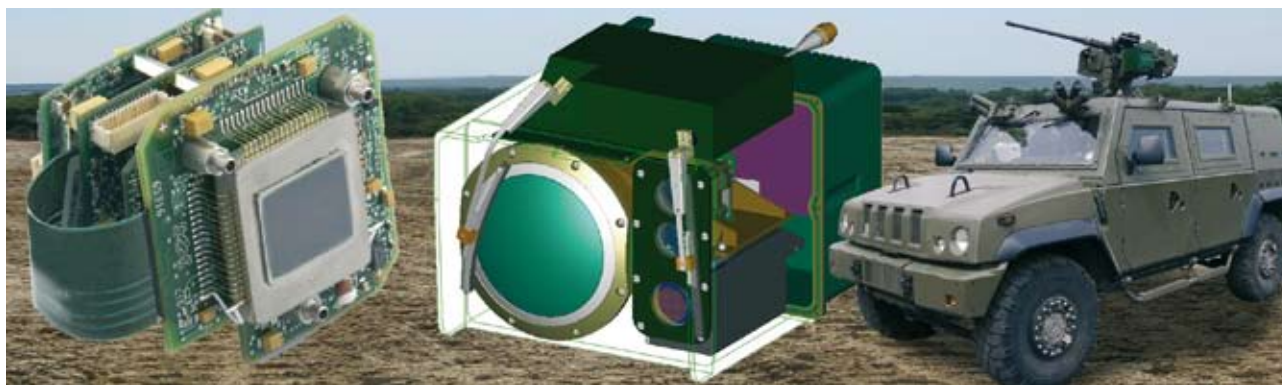
range finding method to determine the distance to a target. For more accurate ranging an optional eyesafe Laser Range Finder (LRF) can be fitted. All STAWS hardware is configured to accept a LRF. STAWS can also be linked with other optional components to provide the user with a target acquisition and location capability to an eight-figure grid reference accuracy level.

Data provided by the LRF, Digital Magnetic Compass (DMC) and Global Positioning System (GPS) is processed by a micro controller built into STAWS. The target position is calculated and displayed on a screen.

KEY BENEFITS

- Designed for latest generation RCWS
- Built-in growth path
- Built-In Test (BIT)
- Integrated systems architecture
- Architecture allows upgrades to the system without chassis and backplane modification
- Selected for the UK Panther Command and Liaison Vehicle (CLV)
- UK in-country support provided.

STAWS - Surveillance, Target Acquisition and Weapon Sight



UK in-country support provided

TECHNICAL SPECIFICATIONS

Operating temperature -40°C to +55°C

Power consumption 20W typical

Thermal Imager

Waveband 8 - 14 micron

Wide Field of View (WFOV) 12 x 9°

Narrow Field of View (NFOV) 4 x 3°

Resolution 320 x 240

System Noise Equivalent

Temperature Difference (NETD) Typically 60mK

Video format CCIR or RS170

FOV

Wide 12 deg x 9 deg

Narrow 4 deg x 3 deg

Range performance - vehicle target (NFOV)

Detection >5000m

Recognition >2000m

Identification >1000m

Options

Full TV resolution TI (640 x 480 uncooled)

Wash / wipe

Lens Protection

Eyesafe Laser Range Finder (LRF)

Growth options

Digital Magnetic Computer (DMC)

Global Positioning System (GPS)

Target Location capability

Daylight Camera

Sensor format 1/3" Charge Coupled Device(CCD)

FOV (zoom)

Wide limit 33.4° x 25.1° max

Calibrated WFOV 12° x 9° (matched to TI)

Calibrated NFOV 4° x 3° (matched to TI)

Narrow limit 3.4° x 2.6°

Resolution 425 TV lines horizontal

Minimum luminance 0.3 lux

Video format PAL, composite

Range performance - vehicle target (Calibrated NFOV)

Detection >7500m

Recognition >2900m

Identification >1600m

STAWS can also be linked with digitised Battlefield Management Systems (BMS), to allow rapid distribution of positional data to other platforms.

SELEX Galileo CMM Level 5 software rating ensures future software obsolescence/upgrade issues are properly managed and will have minimal impact on system availability.

SELEX Galileo is unique in providing full UK in-country support for uncooled thermal imaging equipment.



World leading uncooled thermal imaging technology

For more information please email sales.marketing@selexgalileo.com

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