



SAAB



TRACKFIRE RWS

Remote weapon and sensor system

Force multiplier

Today's service personnel face an ever-evolving battlefield and must react instantly to the demands of every situation. Saab offers critical solutions, capable of responding to all threats – whatever form they may take.

The family of Trackfire Remote Weapon Stations builds on over 50 years of developing electro-optic fire control platforms for land and naval environments. The operator benefits from a fully stabilised, remotely operated weapon (or weapons) and sensor system which provides cutting-edge performance in both domains. A second Operators Console can be added to the system enabling dual command of the same system.

The Trackfire RWS is designed for use on all types of military platforms including vehicles, vessels and static emplacements.

Pinpoint accuracy

Delivering on-target effects whilst ensuring that collateral damage is avoided is essential to any user. The Trackfire RWS provides the hit performance required to engage threats under all conditions.

Stabilised independent line of sight

The unique configuration of the Trackfire RWS provides a true stabilised independent line of sight. As the Sensor Module is decoupled from the weapon axes and independently stabilised, the operator is able to maintain line of sight with the target, thereby greatly reducing target acquisition times.

As such, complex engagement sequences involving repetitive target lasing can be carried out with ease.

Furthermore, the gun can be elevated to a non-threatening position whilst still allowing the Sensor Module to be used for surveillance purposes.



Trackfire RWS with LW25 on Patria AMV

Tailored operation

The Trackfire RWS integration possibilities enhances force multiplication through reliability, hit performance and adaptable flexibility.

The system consists of the following main components:

Operator's console

Consisting of the Fire Control Panel, Control Handle and Operator's Display, the Operator's Console is intuitive to operate. The menu structure has a simple hierarchy to ensure the operator is able to maintain a visual perspective of the situation picture via the Operator's Display, whilst simultaneously having access to all system primary functionality.



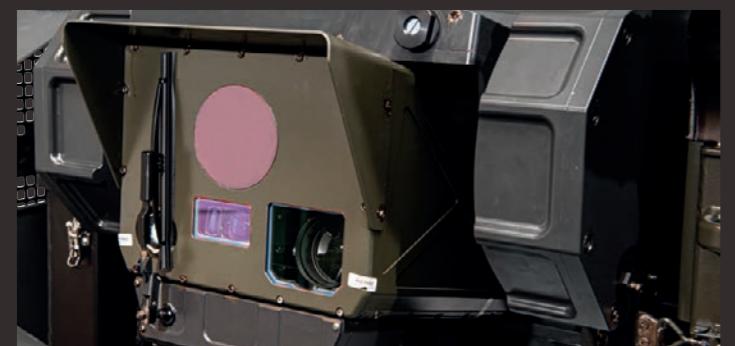
Director Unit

A wide range of small, medium and heavy machine guns, Automatic Grenade Launchers, lightweight medium calibre cannons, as well as Non-Lethal Effects can be integrated to the Director Unit, many of which can be simultaneously mounted to enable a graded effects capability.



Sensor Module

As a self-contained sub-system, the Sensor Module provides Daylight Camera, Thermal Imager and Laser Range Finder channels for the operator. The modular approach allows for a wide range of visual and infrared sensors to be integrated. A wash/wipe or jet nozzle wash capability can also be incorporated.



Optional enhancements

- Video Tracker Module
- Smoke Grenade Launchers
- Integrated Gunnery Trainer
- Coaxial weapon mounting (including Non-Lethal Effects)
- Dual command
- Integration to a Defensive Aids Suite
- Integration of Battle Management System
- Integration of Combat Management System
- Ballistic armour packages
- Laser Target Designator



One system, every mission

Saab's systems work for you, whatever your service, theatre of operation or mission. The Trackfire RWS is designed for use on every type of military vehicle and vessel. It can be adapted and integrated to fit all operations, making it a key component both on land and sea.



Trackfire RWS mounted on Combat Boat 90HSM



Trackfire RWS with GMG and MAG58 on Patria AMV

Ease of integration

The complete Trackfire RWS has been developed to integrate with a wide range of platforms and complimentary equipment.

Functional description

It has also been developed with the operator in mind. All primary functionality is ergonomically presented, ensuring that Surveillance and Target Acquisition cycles are near instantaneous without the operator having to break visual contact with the Operator's Display. Dual command facilitates shared capabilities, shorter response times and reduced sensor-to-shooter cycles.

Fully prepared for the integration into other platform systems, target and image data can be passed both within the platform as well as to and from other systems.

Firepower

The Trackfire RWS delivers exceptional accuracy, facilitating reduced ammunition usage and peace of mind with regard to collateral damage.

The Video Tracker Module can reduce the engagement sequence by as much as 50 percent, whilst allowing the operator to focus on finely adjusting the hit point so that selected areas of a target can be engaged with pinpoint accuracy.

Protection

For maximum crew protection, all Trackfire RWS operations can be performed from below armour or deck. As an option, a Trackfire variant with ammunition Feed From Below Armour can also be offered for certain weapon configurations. Sensor imagery from the Trackfire RWS can be distributed via a Local Area Network and displayed where required inside the platform. This overcomes the loss of situational awareness incurred by removing the gunner from the platform hatch or deck.

Mobility

Trackfire RWS is designed to meet all operational requirements, ranging from small craft in severe weather conditions to Armoured Fighting Vehicles moving at high speed through challenging terrain. Its exceptional on-the-move capability ensures superior target acquisition and engagement even under the most demanding moving target and host platform scenarios.

Integrated survivability

Careful system design has created a highly survivable system with a low profile (reduced signature) and with critical components mounted under armour or deck. A layered system design approach ensures that the Trackfire RWS can act as another node in a detector/effecter relationship for the host platform's survivability suite.

Operational availability

Through-life support

The design of Trackfire RWS ensures a system built for the battlefield, providing excellent reliability under demanding environmental conditions. The concept is based on common standards and a truly flexible design, allowing for minimal maintenance efforts and lowest possible life cycle costs. A robust, simple design and minimal moving parts mean that only basic field maintenance and standard equipment is required for the first level of support.

These features, coupled with the ease of use, Built In Test functionality, training and documentation package and extensive depot level services, enables the Trackfire RWS to meet the most demanding operational availability requirements.

At depot level, services such as technical support to the first and second line, spare part provisioning and major repairs can be conducted both at customer premises or at Saab's own sites. An integration capability for new sub-units and features enables system and service life expansion and can meet changing operational needs.

Technology transfer

The Trackfire RWS has evolved from a dedicated partnership with our customers. We believe in growing and adapting to suit our partner's needs now and in the future. Our design philosophy for the

Trackfire RWS facilitates Transfer of Technology and local production. This ensures that the user has local support and a long term relationship through which future upgrades can be sourced.

Saab has more than 40 years of experience and a strong track record of successful performance on offset programmes. Without exception, we have fulfilled and exceeded our offset obligations worldwide.

Choosing Saab as your partner is not just an economic decision; it is a decision that will provide you with new opportunities to further enhance your capabilities.



You can rely on Saab's thinking edge to deliver innovative, effective products and solutions that enhance your capabilities and deliver smarter outcomes.



Photo: The Swedish Defence Materiel Administration

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