



SAAB



BARRACUDA MCS

Protection on the move

Sensor protection and heat transfer reduction in one system

As vehicles are at their most vulnerable to detection when in transit, a faultless camouflage system is vital. Saab Barracuda's Mobile Camouflage System (MCS) is designed specifically to protect vehicles on the move, without impacting their performance.

In the field, vehicles often need to manoeuvre without being detected. This is a challenging task, especially in extreme environments that place high demands on operational endurance. The MCS helps forces overcome these difficulties by providing multispectral protection on the move. This system is fully customisable to perfectly cover and protect any vehicle without compromising functionality, and even improves efficiency by reducing the internal temperature. Colours and patterns can be matched precisely to any given environment, allowing the vehicles to advance safely undercover.

- Customisable to enhance any vehicle
- Lowers the internal temperature of the vehicle
- Capabilities: VIS, NIR, SWIR, TIR and radar protection



SAAB



SIGNATURE MANAGEMENT

The MCS is designed to increase force survivability by providing outstanding signature management in the visual (VIS), near infrared (NIR), shortwave infrared (SWIR), thermal infrared (TIR) and broadband radar wavelengths. The MCS can obstruct sensors, obscure targeting and challenge smart ammunition, giving the user and vehicle a tactical and operational advantage.

TAILOR-MADE DESIGN

The MCS is a system of interlocking panels attached by a variety of techniques, none of which require any modification to the vehicle. These panels can be customised to suit any vehicle, and are designed to provide full coverage without impacting the performance. The colours and patterns can also be adapted to blend into any theatre of operation.



OPERATIONAL SAVING

By lowering the internal vehicle temperature, the MCS minimises the energy needed for cooling, reducing total fuel consumption by up to 25 percent in the field. The MCS can be designed to control the airflow around the vehicle, minimising service intervals for filters, engine and chassis. The vehicle can be prepared within hours to suit any training exercise or mission without repainting.

Operational advantages

- Reduce detection up to 90 percent
- Improve fuel efficiency by up to 25 percent
- Modular load carrying
- Silent-watch capability
- Multispectral protection
- Logistics efficiency
- Dust prevention
- Climate control

Specifications

The MCS offers protection in the following (wavelength) areas:

Ultraviolet (UV)

Shortwave infrared (SWIR)

Visual (VIS)

Thermal infrared (TIR)

Near infrared (NIR)

Radar



Thermal image 8-12µm, without MCS



Thermal image 8-12µm, with MCS