

Barracuda systems

The more you learn,
the less they know

HANDBOOK



SAAB

A photograph of a forest scene. In the foreground, a tree trunk stands on dark, textured ground. In the background, a large green camouflage net is draped over a tree, blending into the surrounding foliage. The lighting is natural, suggesting a sunny day with some shadows.

Knowledge = control

Combining unique skill, extensive industry experience and knowledge, and a flexible product-development approach, Barracuda creates advanced camouflage systems that enable you to assume the upper hand in any mission scenario and make every territory your own.



PLATFORM

Barracuda Mobile Camouflage System	6
Barracuda CoolCam	7
Barracuda Break Away System	8
Barracuda Camouflage Marine Solution	9

SOLDIER

Barracuda Personal Net	11
Barracuda Camosphere	12
Barracuda Soldier System	13

UNIT

Barracuda Ultra Lightweight Camouflage Screen	16
Barracuda Advanced Reversible Camouflage Screen	17
Barracuda Arctic Net	18
Barracuda Solar Shade	19
Services	20
Academy	21



Platform

A military tank, heavily camouflaged with a dense layer of green and brown netting, is driving on a dirt road. The tank is the central focus, moving towards the right. In the background, another similar tank is visible, kicking up dust. The setting is a wooded area with tall pine trees under a blue sky with light clouds. The overall scene conveys a sense of military readiness and stealth.

Barracuda systems offer multispectral protection for any platform. They can be integrated to fit any environment, vehicle or object.

MCS

Barracuda Mobile Camouflage System

- Customised to enhance any vehicle
- Reduce detection up to 90 percent
- Gloss and hot-surface prevention
- Dust prevention
- Logistics efficiency
- Silent-watch capability
- Modular load carrying

FEATURE

Barracuda Adjustable MCS

Adjustable panels for different environments

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



CoolCam

Barracuda CoolCam

- CoolCam reduces the heat penetration through the hull into vehicles operating in extremely hot climates to protect personnel, sensitive equipment and ammunition. The system minimizes the effects of solar loading and radically lowers the vehicle's inner temperature.
- Improves fuel efficiency by up to 25 percent
- Lowers internal temperature of the vehicle
- A flexible solution for vehicles and containers

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



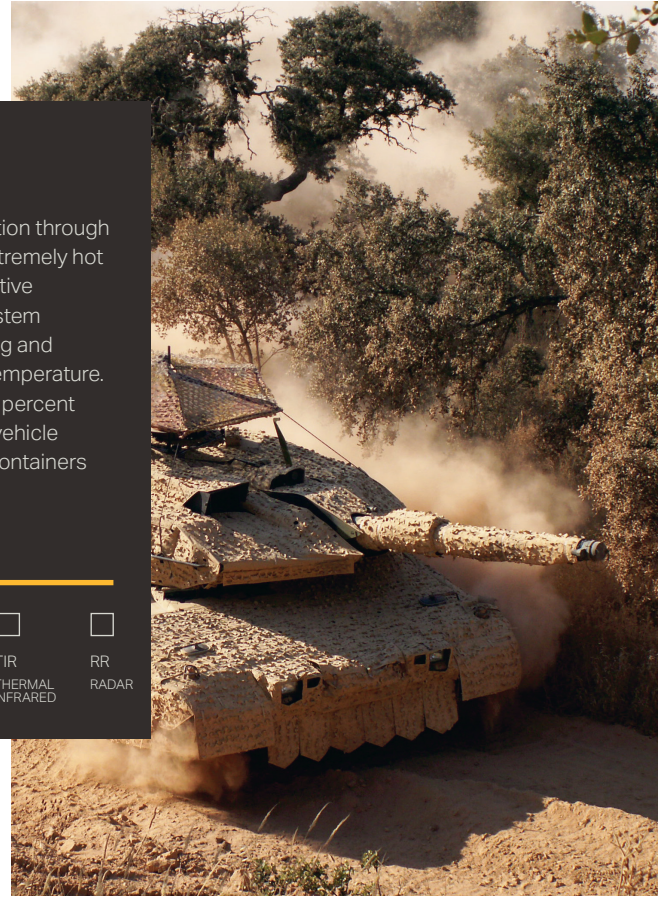
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



Break Away System

Barracuda Break Away System

- Rapid deployment
- Unique system for immediate exfiltration
- Reduces gloss, glint and glare to diminish detection from a distance in the visual spectrum
- Integrated system that attaches to the vehicle for storage and transportation
- Colours and augmentation kits are available for regionally specific situations

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



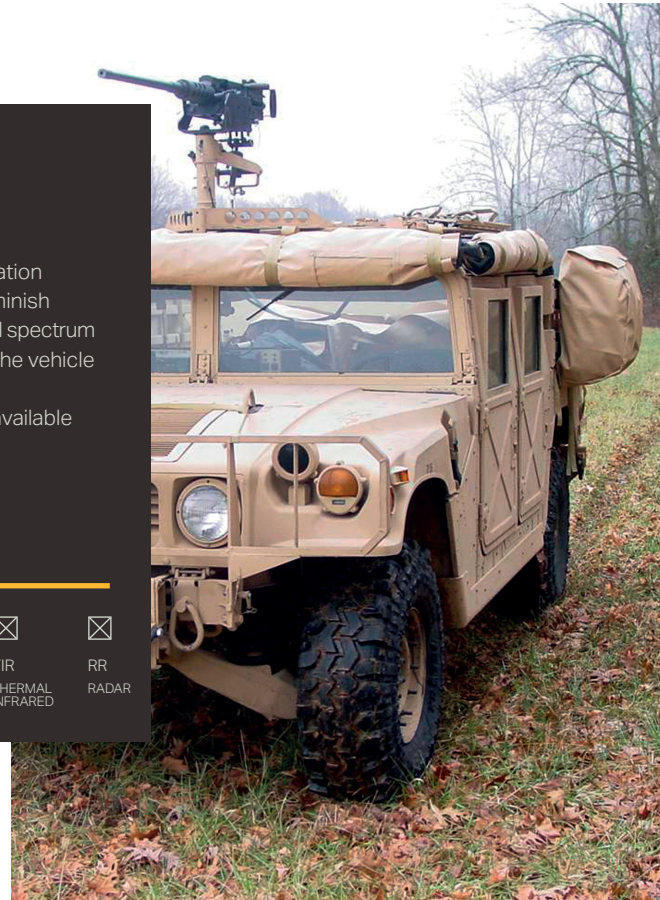
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



Camouflage Marine Solution

Barracuda Camouflage Marine Solution

Uniquely designed to offer complete confidence to soldiers operating from the water, whether cutting through waves at breakneck speeds or moored to the coastline.

- Interlocking panels customisable to any small surface vessel
- Nets that imitate the colour scheme of any environment
- Easy to install and quick to deploy

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



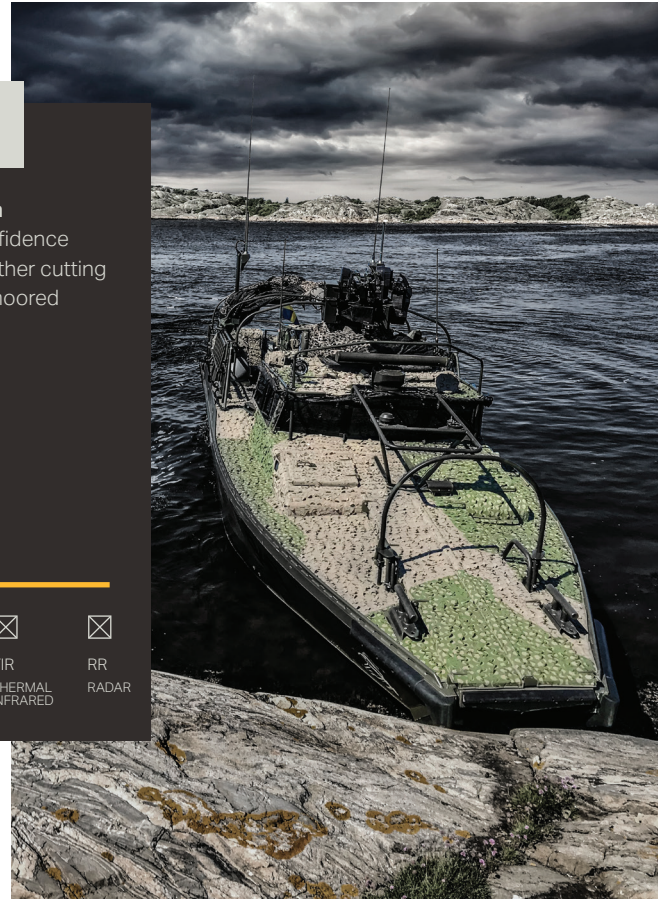
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



A soldier in a ghillie suit is lying on a rocky outcrop, aiming a rifle. The soldier is completely covered in a dark, textured camouflage netting that blends with the surrounding environment of bare trees and rocks. The rifle is mounted on a tripod and has a suppressor. The background shows a rocky cliffside and a cloudy sky.

Soldier

As threats evolve and enemies acquire advanced sensors capable of seeing in every part of the electromagnetic spectrum, the need to stay hidden has never been greater. Knowing how to blend in with your surroundings could mean the difference between mission failure and mission success.

Personal Net

Barracuda Personal Net

- Blocks up to 70 percent of thermal energy transmitted by the soldier
- Available in two different designs (3D and 2D)
- 2D net with reversible design

2D net – properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR

3D net – properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



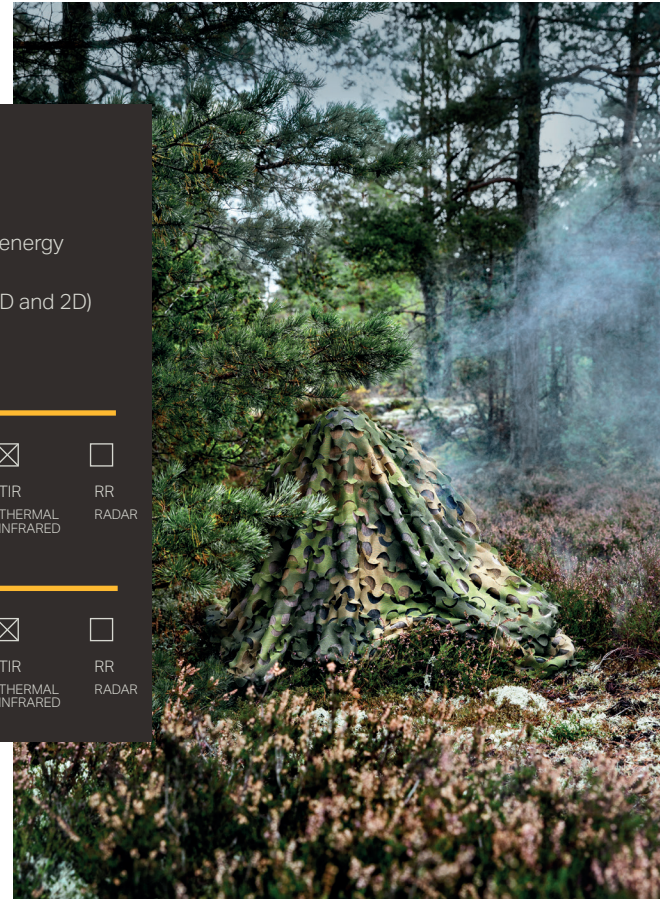
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



Camosphere

Barracuda Camosphere

- The Camosphere is quick to release and quick to close for flexible and efficient operational use
- Gives the soldier the ability to see from the inside but not be seen from the outside
- Covers various missile systems
- Provides a working area with a 360° view
- Weighing no more than 8 kg, the Camosphere is easy to carry

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



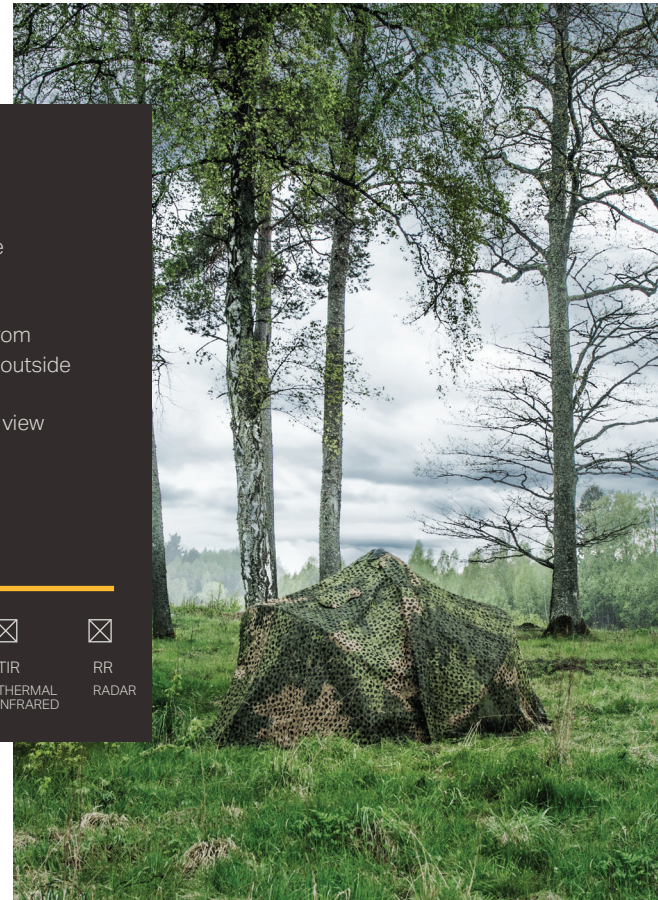
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



Soldier System

Barracuda Soldier System

- Protects from visual and thermal detection in high-risk scenarios
- Highly customisable, modular design with many uses
- Seamlessly blends into night and day environments
- Lightweight and easy-to-wear, allowing the user to carry out their duties
- Thermal properties and low gloss

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED

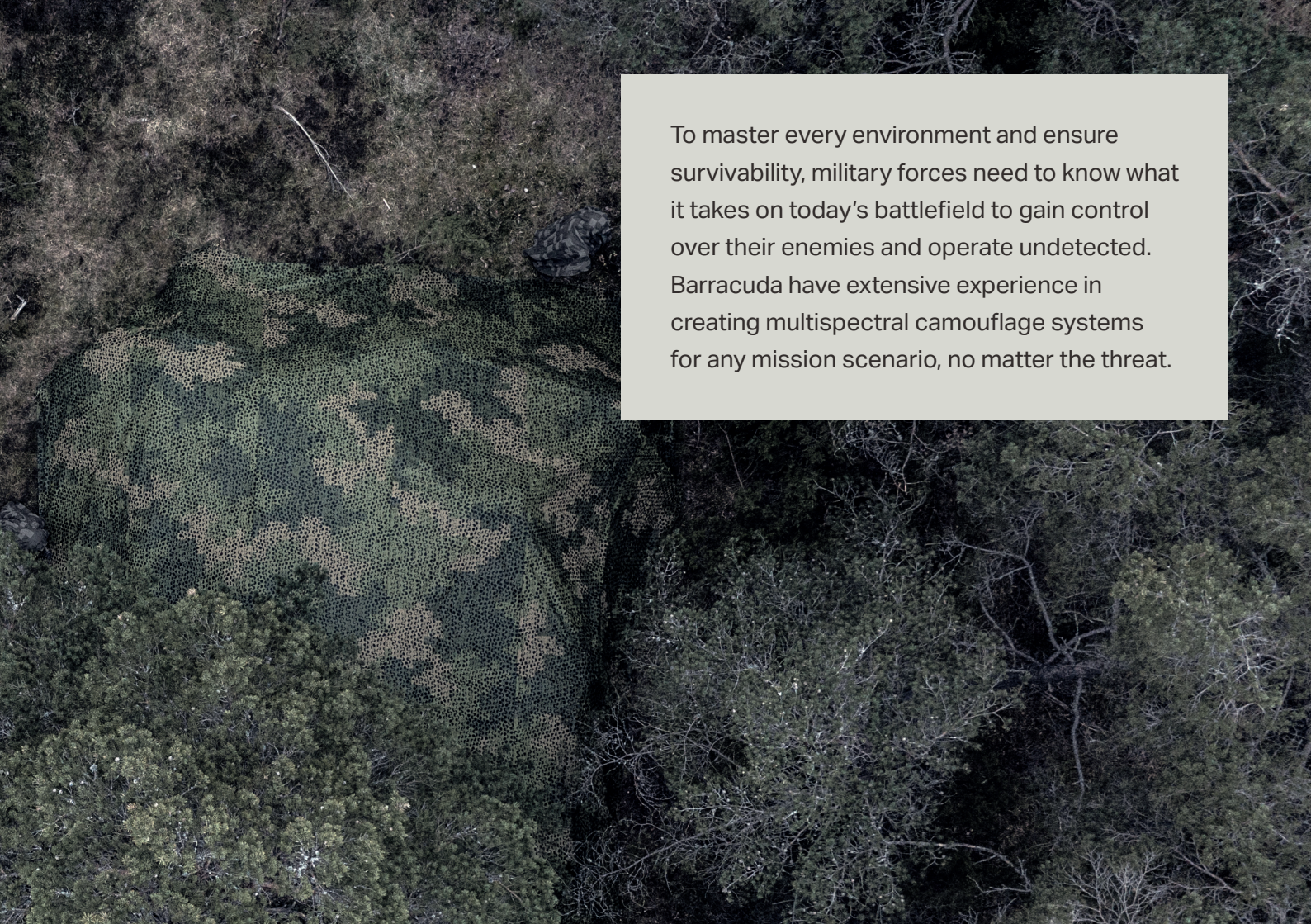


RR
RADAR



Unit





To master every environment and ensure survivability, military forces need to know what it takes on today's battlefield to gain control over their enemies and operate undetected. Barracuda have extensive experience in creating multispectral camouflage systems for any mission scenario, no matter the threat.

ULCAS

Barracuda Ultra Lightweight Camouflage Screen*

- 3D surface structure
- Solar loading reduced by up to 80 percent on vehicles, shelters, tents or containers
- Ultra-lightweight, the ULCAS weighs no more than 250 g/m²
- Joining system – individual camouflage screen can be readily linked together
- Non-snagging design – easy to use

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



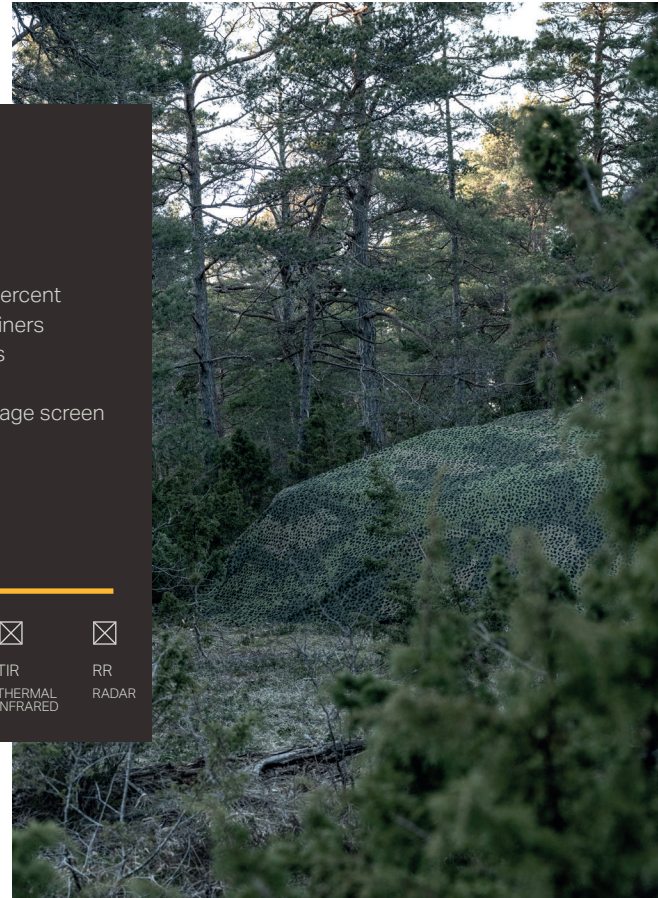
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



ARCAS

Barracuda Advanced Reversible Camouflage Screen*

- 2D system
- Reversible design – two environments in one net
- Lightweight ARCAS weighs less than 300 g/m²
- Non-snagging design – easy to use
- Joining system – individual camouflage nets can be readily linked together

FEATURE

Barracuda ARCAS®

- Thermal pattern that lowers the signature

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



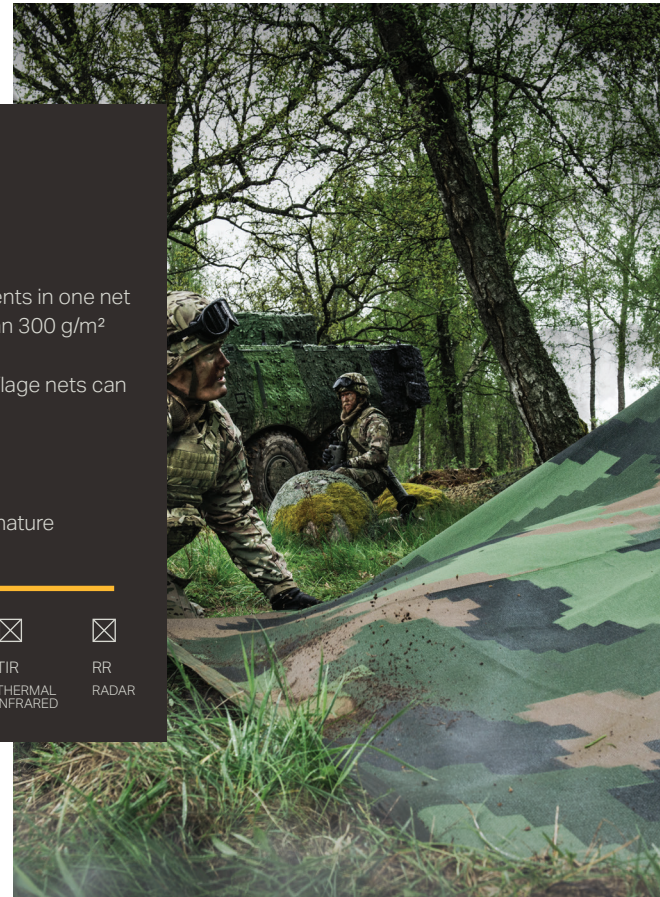
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



*The dimension, shape and colours of the camouflage net can be customised according to each customer's requirements

Arctic Net

Barracuda Arctic Net*

- Reversible in different terrain (lowland/highland) two different colour schemes
- Durable material
- The randomised pattern is used to avoid repeated patterns and identical screens
- The visual and near-infrared colour pigments and the pattern are developed to blend into the intended environment

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



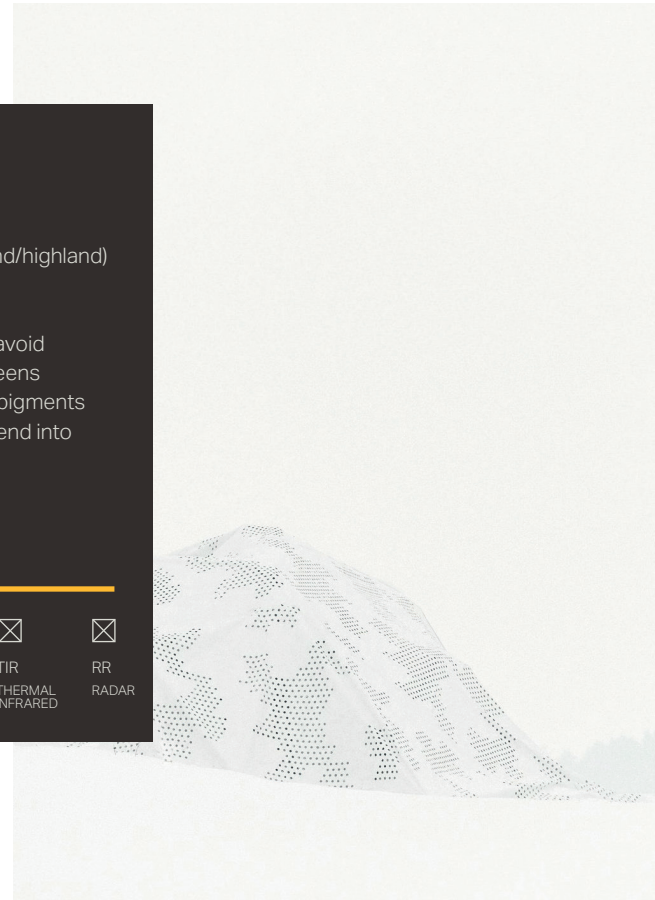
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



Solar Shade

Barracuda Solar Shade

- Solar loading reduced by up to 80 percent
- Maximizes shelter and container temperature reduction
- Reduces operational energy consumption by 20 percent on covered shelters
- Snag-resistant design for rapid deployment

Properties



UV
ULTRA
VIOLET



VIS
VISUAL



NIR
NEAR
INFRARED



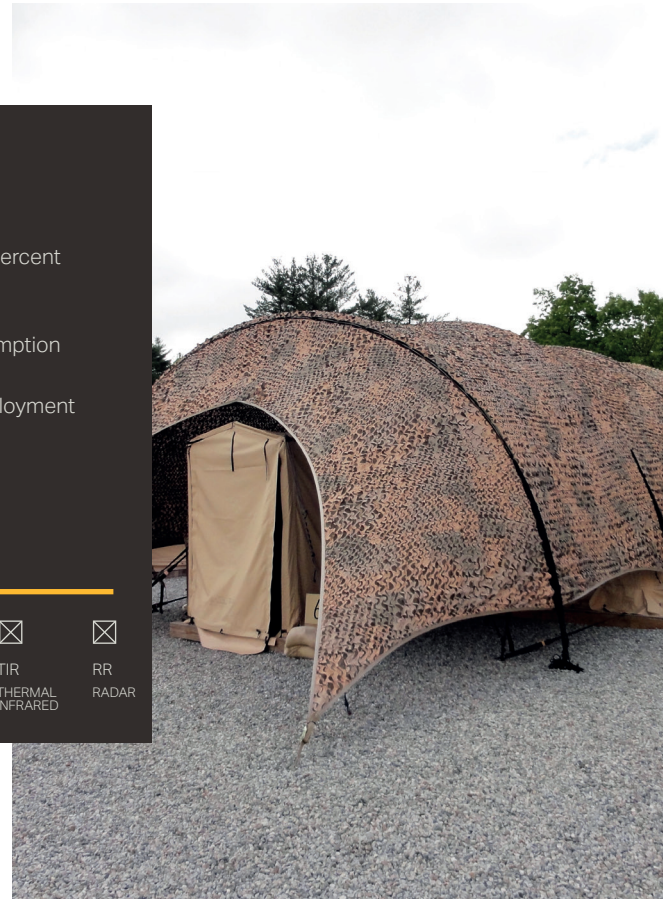
SWIR
SHORT WAVE
INFRARED



TIR
THERMAL
INFRARED



RR
RADAR



*The dimension, shape and colours of the camouflage system can be customised according to each customer's requirements

Services

Research and Development

- In-house R&D facilities
- Environmental studies in order to develop suitable colours and patterns
- In-house advanced sensors and equipment to test, evaluate and measure materials and signature characteristics
- In our facility we have built our own test methods in cases where international standards are not available or applicable
- Evaluate material characteristics for example: mechanical, fire resistance, adhesion and outdoor performance
- Test laboratory for other institutions



Academy

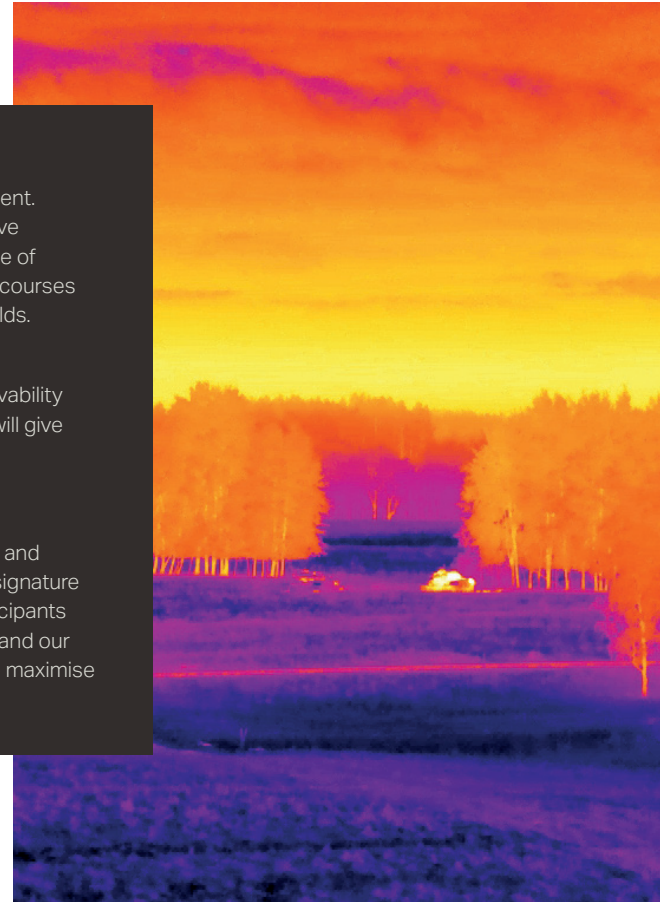
Gain the tactical edge through concealment. Achieve battlefield superiority and improve survivability by increasing your knowledge of modern signature management through courses led by world-class experts within their fields.

Barracuda Master Class

Reduced visibility means increased survivability and greater flexibility. This Master Class will give you the operational edge in survivability, in theory and in the field.

Barracuda Train the trainer

This course will give instructors the tools and knowledge to train prospective users in signature management. This course provides participants with expertise in signature management and our decades of experience can be applied to maximise survivability of operators in the field.





SAAB

As sensors advance and threats evolve, the knowledge required to deceive the enemy changes and the need for advanced signature management technology becomes greater.

With its long history of innovation, expert knowledge and superior technical competence, you can count on Barracuda to deepen your understanding of the latest deception capabilities and meet both current and future challenges.

www.saab.com

Saab Barracuda AB

Hammarsvägen 1
SE-594 32 Gamleby, Sweden
Phone: +46 493 148 00
Fax: +46 493 120 64
Info.barracuda@saabgroup.com