



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

Technical data and specifications

Type	Odin	Heimdall	Vidar
Laser transmitter			
Type	Pulsed	Pulsed	Pulsed
Wavelength	1.5 μm	1.5 μm	1.5 μm
Laser class	3R	1	1M
Pulse rep rate	≤ 4 pps	≤ 1 pps	≤ 12.5 pps
Range			
Instrumented range	300 to 20,000 m	50 to > 20,000 m	50 m up to 40 km
Range resolution	2.5 m	2.5 m	1 m
Range logic	Range gate and blocking	First, second and last	Multiple targets and range gate
Range performance	See above	See above	See above
Mechanical interface			
Weight	5 kg	1 kg	5 kg
Dimensions (lxwxh)	350x200x180 mm ³	121x103x64 mm ³	321x145x141 mm ³
Electrical interface			
Power supply	+28 Vdc	+28 Vdc	+28 Vdc
Communication	RS422	RS422	RS422

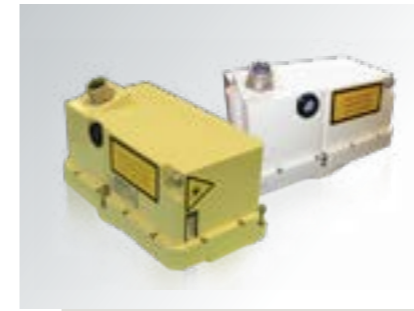


Laser
rangefinder family



Multi-domain target ranging

Saab's laser rangefinders are designed and environmentally verified for use as target rangefinders in airborne, ground-based and naval systems requiring low-hazard functionality in combination with high performance. The compact and lightweight design is ideally suited for integration with advanced fire control systems and other telemetric applications.

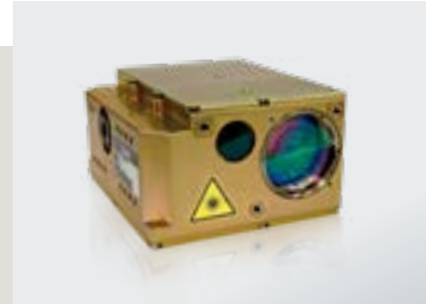


Odin

The Odin laser rangefinder is designed and verified for armored vehicle applications. It has been delivered to several countries within Europe over the years and is appreciated for its high quality and excellent performance, covering both anti-aircraft as well as ground-to-ground applications. The laser rangefinder has a receiver protection as an option. Thanks to its modular design, it is easy to reconfigure for different applications. One application is integrated in the CV90 combat vehicle.

Heimdall

The Heimdall laser rangefinder is a true class 1 laser and can therefore be used in public areas without safety restrictions, while at the same time providing excellent range performance with continuous pulsed emission at 1 pps. The rangefinder is verified for use in civil and military applications. Its compactness makes Heimdall well suited for integration into sealed electro-optical fire control or surveillance systems.



Land

Target: 2.3x2.3 m², 20% diffuse reflectivity

- Vidar —
- Odin —
- Heimdall —



The laser rangefinders from Saab are based on solid state laser technology operating at the eyesafe wavelength 1,5µm. Thanks to a well-balanced trade-off between emitted laser power and detection sensitivity, accurate ranging to air and ground targets is achieved. The high repetition rate makes it possible to improve system tracking accuracy of fast-moving and manoeuvring targets. The range is measured for each laser emission, which makes it possible to perform an accurate calculation of the target's speed.

In Director and Fire Control Systems (FCS), the laser rangefinder provides an accurate instant range information. By its narrow emission beam, it is hard to combat as it is virtually immune to electronic warfare.



Navy marine

Target: 2.3x2.3 m², 20% diffuse reflectivity

- Vidar —
- Heimdall —



Vidar

The Vidar laser rangefinder, which has a small SWaP, is very suitable for anti-aircraft applications owing to its high repetition rate and long-range performance. The rangefinder is designed and verified for naval and ground applications and will withstand harsh environmental conditions. Vidar is a true class 1M laser, which makes the rangefinder easy to use during training.