



# STERNA SYSTEM

Gyroscope based  
target acquisition system





**STERNA SYSTEM**

**TLE CE90 CAT I  
TARGET COORDINATES.  
ANYTIME. ANYWHERE.**

**STERNA System accurately finds True North in virtually all terrains and regardless of the weather conditions. The performance of STERNA System is not disturbed by gear carried by its operator or if used next to heavy armored vehicles. It remains highly accurate even when deployed on reinforced concrete floors or in dense urban settings. STERNA System operates reliably even in GPS denied environments and does not require the operator to carry any support resources to determine True North. If your mission success depends on the highest level of accuracy and precision, there is no substitute for STERNA System.**

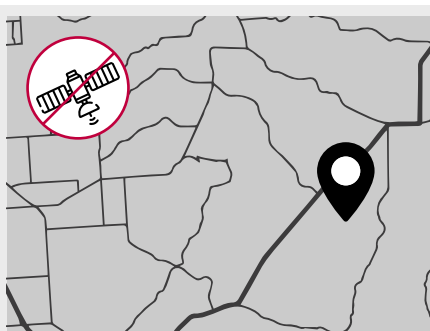


No matter what time of day or night, STERNA System helps you accomplish your mission with accurate target acquisition capabilities and maximum flexibility.

STERNA System consists of an observation device (payload), STERNA TNF (True North Finder) and a solid tripod. Plus optional accessories for dedicated use cases.

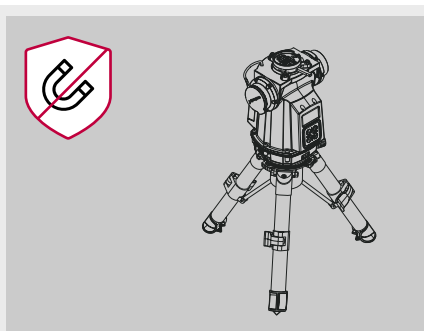
Combine STERNA TNF with highly accurate devices (JIM Compact, MOSKITO TI or PLRF25C) to complete the system and get a target location error CE90 CAT I at any latitude range.





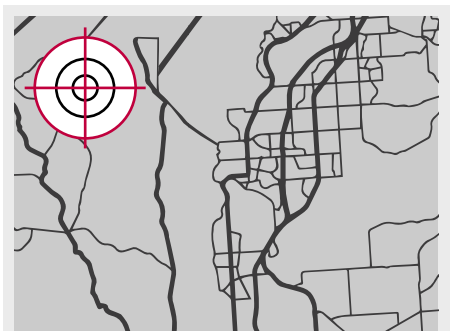
### DETERMINATION OF OWN POSITION

STERNA System is independent of GPS signals and therefore remains operational in GPS denied areas or areas affected by GPS spoofing.



### NON-MAGNETIC TRUE NORTH FINDER

With its integrated Hemispheric Resonating Gyro (HRG) STERNA TNF is not affected by magnetic disturbances.



### TARGET COORDINATES

Regardless the terrain or weather conditions and no matter the time of day, STERNA System accurately determines target coordinates, effectively minimizing the risk of collateral damage.



## LOW WEIGHT

- Portable by one person
- Industry leading performance-to-weight ratio
- Less than 3 kg incl. batteries (depending on configuration)



## VERSATILE MODES OF OPERATION

- Day operation with all available Safran payloads
- Night operation (thermal) with MOSKITO TI, JIM LR or JIM Compact
- Reliable detection in poor light conditions with MOSKITO TI or JIM Compact



## ONE SYSTEM FOR DIFFERENT APPLICATIONS

- Close Air Support
- Artillery and Mortar Fires
- Indirect Firing System



## FULLY OPERATIONAL IN ANY ENVIRONMENT

- Works in GPS denied areas or areas affected by spoofing
- Works in all terrains, weather conditions, indoors and in urban environments
- Not disturbed by body armor, weapon systems, radios, tablets, etc.



## PAYLOAD INTERCHANGEABILITY

- Auto-detection of mounted payloads
- Robust electro-mechanical interface between STERNA TNF and payload (no cables needed)



## USER-FRIENDLY

- Various customization options
- Intuitive operation (even when wearing gloves)
- Ergonomic design



## LASER RANGEFINDER

- Provided by mounted payload
- Ranges of up to 25000 m
- Exceptional performance based on Safran Vectronix' world-leading core competence



## STANDARD INTERFACES

- Easy integration into higher-level systems
- USB, Ethernet, Bluetooth and RS-232



## CONNECTIVITY AND INTEGRATION

- Integration with external BMS/FCC systems
- Integration with external laser target designators
- Extensive C4I capability
- Fulfills NATO requirements for interconnectivity

# STERNA TNF PRODUCT VARIANTS



## STERNA TNF 45

STERNA TNF 45 is the ideal solution if highest possible azimuth accuracy or TLE CE90 CAT I capability is required at shorter target distances only or if the system is mostly used up to a latitude of 45° N/S.



## STERNA TNF 60

STERNA TNF 60 delivers ultimate azimuth accuracy and TLE CE90 CAT I capability even at extended target distances and if used in areas beyond a latitude of 45° N/S.

# TYPICAL APPLICATIONS



## CLOSE AIR SUPPORT

STERNA TNF 45/60 with MOSKITO TI or JIM COMPACT and external laser target designator (optional) delivers TLE CE90 CAT I capabilities for the most demanding Close Air Support applications.



## ARTILLERY AND MORTAR FIRES

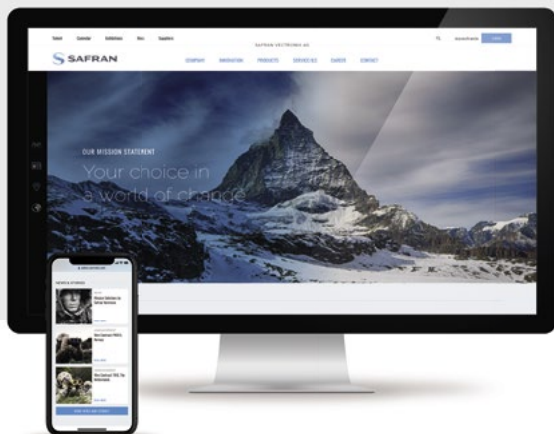
Get TLE CE90 CAT I / II system capability at any time anywhere with STERNA TNF 45 and all Safran payload portfolio.



## INDIRECT FIRING SYSTEM

STERNA GLPS (Gun Laying and Positioning System) 45/60 and payloads PLRF25C and VECTOR Family provide perfect Gun and Mortar Laying solutions.

# ADDITIONAL INFORMATION



On our website, you will find not only extensive additional information, downloads, and films, but also a direct point of contact for a product demonstration.

Visit [www.safran-vectronix.ch](http://www.safran-vectronix.ch)

## ULTI SENSE.



Your reliable partner for integrating innovative and tailor-made sensors used for orientation and distance measurement.

**INSTALLED IN THE STERNA TNF.**

[www.ultisense.ch](http://www.ultisense.ch)



# VERSATILITY – MULTI-MISSION CONCEPT



**STERNA TNF**  
with JIM Compact



**STERNA TNF**  
with MOSKITO TI Family



**STERNA TNF**  
with PLRF 25C



**STERNA TNF**  
with VECTOR Family



**STERNA TNF**  
with MOSKITO



**STERNA TNF**  
with JIM LR

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**POWERED  
BY TRUST**

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