



# AFCD TI

## Advanced Fire Control Device

AFCD TI – intelligent and accurate weapon sight especially designed for the Saab's Carl-Gustaf system.



### Main features

- Thermal imager and day camera
- Full color display with eyepiece
- Digital image fusion
- Eye-safe laser range finder
- Inertial measurement unit
- Ballistic computer
- Airburst programming
- Tracking and engage function
- Image and video capture
- Power options (internal / external power source)
- Remote control
- Versatile connectivity options

# Advanced Fire Control Device (AFCD TI)

AFCD TI enables you to engage your target day and night with a high first-hit probability – thanks to its integrated uncooled thermal imager, day camera, eyesafe laser range finder, inertial measurement unit and ballistic computer with necessary environmental sensors. Digital image fusion improves the target detection capability especially at nightfall.

The information regarding the ammunition type currently in use is automatically provided for the AFCD by the electronic interface of the weapon system.

It takes a single push of a key to rapidly calculate the aiming dot for a stationary or moving target by using the following parameters from the sight and the weapon:

- Ammunition type
- Target range
- Ambient temperature
- Barometric pressure
- Terrain and cant angle
- Propellant temperature
- Angular rate (lead angle calculation)



The user interface can be easily customized (e.g. language) in order to meet exact customer requirements or needs.

## KEY BENEFITS

- Specially designed for Carl-Gustaf system
- Optimized usability and ergonomoy for Carl-Gustaf system
- 24/7 operation with integrated thermal imager and day camera
- Ensures excellent first hit probability
- Light weight ~1.5kg
- Customized user-friendly interface
- Suitable for remote observation and range finder
- ITAR free

## DRI RANGES



## TECHNICAL DATA

### Optical data

Field of view VFOV 12.5° x HFOV 9.4°  
Magnification 3x

### Thermal imager

Type Uncooled, staring  
Resolution 640x480, 17µm  
Spectral band 8-12µm  
Digital zoom 2x, 4x, etc.

### Day camera

Resolution > 1 MP  
Digital zoom 2x, 4x, etc.

### Laser range finder

Type 1550nm, class 1 (eyesafe)  
Range > 3000 m  
2000 m (NATO target\*)  
Accuracy +/- 1m

\*Target size 2.3 x 2.3 m, visibility 10 km, target reflectivity 30%, detection probability 90%

### Sensors

Terrain angle and cant angle  
Gyroscope for angular rate  
Ambient temperature  
Barometric pressure

### Integrated display with eyepiece

Resolution 800 x 600 (V x H)

### Electrical interfaces

RS232  
USB  
Digital video output / input via Ethernet  
VDC input / output

### Mechanical interface

Carl-Gustaf specific  
Optional: Picatinny MIL Standard 1913A and NATO accessory rail Stanag 4694

### Power

Power sources AA-size batteries 1,2V-3V (alkaline, NiMH, Li-Ion) with battery adapter or Li-Ion accumulator  
DC cable (external power supply 12-30VDC)

### Environmental

Weight ~ 1,5 kg with batteries  
Housing IP67, nitrogen filled  
Temperature range -40°C to +63 °C  
Qualifying std. ISO 9001:2008 and AQAP-2110  
Qualification MIL-STD-810 and MIL-STD-461

### Options

Remote control

Our policy is continuous development and improvement. We therefore reserve the right to alter technical data without notice.

