



FCS-RPAL

TACTICAL LASER RANGE FINDER WITH BALLISTIC COMPUTER

The Fire Control System “Rheinmetall Precision Aiming Laser” (FCS-RPAL) from Rheinmetall Soldier Electronics (RSE) includes the advanced, combat proven laserblock technology of the RSE LM-VTAL.

In addition to the powerful variable infrared illuminator and the two aiming lasers (infrared and visible) the ITAR restricted FCS-RPAL includes a tactical laser range finder (LRF) in a world-class compact and light-weight package and a precise ballistic computer.

The high-precision LRF is integrated into the factory-aligned laser block of the FCS-RPAL to simplify adjustment to the weapon sight.

The dimmable OLED display shows the distance to the target. With the click settings calculated by the integrated ballistic calculator, shown in the display, the shooter can adjust his scope accordingly.

All these features allow snipers with the FCS-RPAL to increase and improve the first round hit probability.

FEATURES

- Electronically focusable IR illuminator
- IR aiming laser and visible aiming laser (green or red)
- All lasers and LRF co-aligned to bore sight with a single adjustment

- Ballistic calculator with integrated sensor technology – fast and accurate calculation of a ballistic solution for the acquired target
- Tactical LRF (SWIR) up to 2,500m range on man sized targets
- LRF is always eye-safe (even in combat mode)
- Different laser power modes for training and combat
- OLED display: energy efficient, dimmable, cold resistant, automatic brightness adjustment
- Waterproof up to 1 m for 2h (IP68)
- Powered by one IEC CR17345/CR123 battery

CONNECTIVITY

- Standard picatinny mount (MIL-STD-1913/STANAG 4694)
- Operation with cursor pad or 5-key trigger cable
- Bluetooth 4.0 (BLE)
- Several interfaces to different night vision devices and night vision goggles
- Connection to Kestrel® anemometers possible
- Connection to Applied Ballistics® App possible
- Interface to digital riflescope
- Download of customer-specific ballistic models and databases possible

TECHNICAL DATA

General

| | |
|-------------------------------------|--|
| Length x width x height | 130 x 50 x 80 mm |
| Total height from rail | 45 mm |
| Weight incl. battery and rail mount | 315 g |
| Battery | 1 x IEC CR17345/CR123 |
| Battery life | 3 h (Dual IR 30/75 mW) or 800 target acquisitions |
| Waterproof (IP68) | 1 m for 2 h |
| Operating temperature (STANAG 2895) | -32°C to +71°C |
| Test standard | MIL-STD-810 |

Range finder

| | |
|-------------------|------------------------------|
| Measurement range | 2,500 m on man sized targets |
| Power output | 5 W pulse |
| Wavelength | 1,550 nm |
| Beam divergence | 1 mrad |

Ballistic computer

| | |
|---------------------------|---------------------------------|
| Type | Applied Ballistics® |
| Max. storage capacity | 32 ammunitions types |
| Atmospheric sensors | Pressure, humidity, temperature |
| Displayed correction data | Mil, MOA, Clicks |
| Bluetooth | BT 4.0 (BLE) |
| Geodatic sensors | Inclinometer, compass |

MODE DATA

| Mode | typ. wavelength | typ. output power | typ. beam divergence |
|--------------------------------------|-----------------|-------------------|----------------------|
| Visible aiming laser red | 640 nm | 60 mW | 0.5 mrad |
| or visible aiming laser green | 520 nm | 20 mW | 0.5 mrad |
| IR aiming laser | 850 nm | 30 mW | 0.5 mrad |
| IR illuminator w. electronic focus | 850 nm | 60 mW | 5 mrad to 150 mrad |

All parameters in the tables were measured at room temperature.



Laser beams can cause damage to your eyes. The user is responsible to observe the local safety regulations.

Subject to technical changes, error, and printing errors.

CONTACT US

For more information or questions about an individual configuration of the Rheinmetall Soldier Electronics products, please contact our sales consultants.

sales.rse@rheinmetall.com

Rheinmetall Soldier Electronics GmbH

Bodenseeallee 3 · 78333 Stockach · Germany · sales.rse@rheinmetall.com · www.rheinmetall.com