

FCS13RE

AIMPOINT® FCS13RE



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Aiming dot size	2 MOA
Battery type	AA batteries, 1.5 - 3.0V, 6 pieces of Alkaline LR6 or Lithium FR6
Battery life - Day time use	Weeks, depending on user profile use
Mounting	Available for Carl Gustaf 84 mm, HV 40 mm, HMG 12.7 mm etc.

OVERVIEW

The Aimpoint FCS13RE is a Dynamic Universal Reflex Sight (DURS) for use on Multiple Weapon Platforms such as:

- 84 mm Carl Gustaf
- 40 mm HV (HK GMG, MK19)
- 12.7 mm HMG (M2)

The FCS system is a Direct View Optic (DVO) that consists of an eye safe (class 1) 1550 nm Laser Range Finder, a ballistic computer with the capability to store more than 50 different ballistic algorithms, and a very near parallax free optical channel with unlimited eye relief.

The FCS automatically compensates for the ballistic drop of projectiles at measured distances, factoring in variables such as rotational (spin) drift, propellant temperature and terrain angle.

The system will also allow the engagement of moving targets and calculates the point of aim depending on speed of the target dynamically. When the distance is measured the ballistic is calculated and compensated immediately.

The aiming reticule changes position in the optical channel electronically and very quickly. Neither motors nor sensitive moving parts are used within the system. If ammunition type is changed, the ballistic algorithm is entered and utilized automatically, so no new distance measurement is required.

The Aimpoint FCS system can also be programmed for 40 mm HV airburst ammunition. The detonation can easily be moved along the axis of fire with different burst modes – string of pearls, to engage targets in defilade.

UNIQUE FEATURES

- Greatly increases first hit probability, drastically reducing the collateral damage
- Eliminates targeting errors resulting from user mistakes in estimation of distance and terrain angle
- Increases the effective range of engagement
- Dramatically reduces training time and the amount of ammunition utilized during training
- Increases the confidence of the gunner in engaging targets
- Complete dawn to dusk capabilities
- Compatible with all generations NVD
- Operates using standard AA batteries
- Airburst capability
- One sight, many weapon platforms

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TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

OPTICAL SPECIFICATIONS

Optical magnification: 1x
Aiming dot size: 2 MOA
Optical signature: No optical signature visible at 20 meter distance, front side, with appropriate setting using NVD (at night conditions) or the naked eye (daylight conditions)
Dot color: Peak Wavelength: 650 ± 40 nm
NVD compatible: Yes
Optical coating: Anti-reflex coating, all surfaces. Multi-layer coating objective lens. Band Pass coating for NVD compatibility.
Max ballistic elevation: The maximum ballistic elevation is at least 235 mrad at factory default zero setting, increments 1.5 mrad nominally, center to center
Clear aperture: 33 mm (1.3 in)
Eye relief: Unlimited

POWER SOURCE

Battery type: AA batteries, 1.5 - 3.0V, 6 pieces of Alkaline LR6 or Lithium FR6
Battery life - Day time use: Weeks, depending on user profile
Power intensity: 1 off, 7 NVD and 8 DL

PHYSICAL SPECIFICATIONS

Length sight only: 190 mm (7.5 in)
Width sight only: 76 mm (3 in)
Height sight only: 157 mm (6.2 in)
Weight sight only (incl battery): Less than 1600 g (56.4 oz)
Housing material: High Strength Aluminum
Housing finish and color: Black
Surface treatment: Anodized, matte

ENVIRONMENTAL SPECIFICATIONS

Temperature range storage: -51°C to +71°C (-60°F to +160°F)
Temperature shock: Operable after a temperature shock between -40°C and +60°C (-40°F and +140°F)
Submersible: To a depth of 1 m (3 ft.)
Chemical resistance: Withstands occasional contamination by hydraulic fluids, engine oils, fuel and jet fuels

MECHANICAL INTERFACE

Mounting: Available for Carl Gustaf 84 mm, HV 40 mm, HMG 12.7 mm etc.
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