

SCORPIO

Optronics Systems

GRENADE LAUNCHER FIRE CONTROL SYSTEM

A lightweight, compact, high hit-probability, Fire Control System (FCS) for grenade launcher tubes that provides fast and accurate aiming and firing (LOS/LOF) capabilities.

A ballistic computer reconfigurable by means of uploaded firing tables for selected ammunition (HE frag, HEDP, Smoke, etc) provides enhanced hit probability against standing and moving ground targets.

Unique solution available on the market

Scorpio is a unique solution for the Fire Control of a Grenade Launcher:

- It is integrated with the weapon and directly measures the quantities that are necessary for a ballistic solution (line of fire attitude, target distance and movement). On this basis and considering the projectile firing tables, it autonomously calculates the ballistic lead angles.

- Scorpio then guides the soldier to position the weapon line of sight in order to hit the target, taking into account the dynamic conditions.

KEY FEATURES

- Ballistic computer re-configurable by means of uploaded firing tables for selected ammunition
- Ballistic computation for ground static targets
- Ballistic computation for ground moving targets by means of cinematic lead angles computation
- Instinctive aiming by means of the Line of Fire (LOF) implementation in a Colour OLED display
- Class 3B pocket Laser Range Finder for Line of Sight (LOS) distance measurement
- Self powered by x3 AA batteries.



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SCORPIO

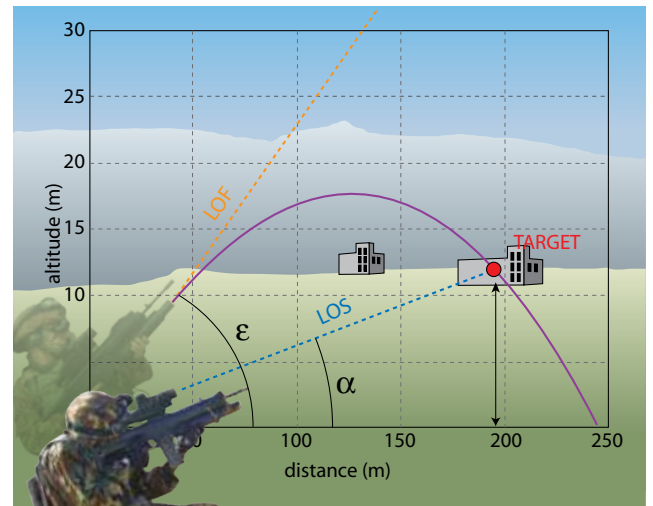


SCORPIO Grenade Launcher mounted on a rifle



TECHNICAL SPECIFICATIONS

Ballistic computations	
Time reaction	Static Target < 1 sec. Dynamic Target < 4 sec.
Firing tables	Selectable from menu
Operative panel	One touch
Aiming display	OLED display
Laser Range Finder (LRF)	
Wavelength	905nm
Maximum range	600m (for 40mm low velocity grenade)
Eye safety	Class Class 3B in dynamic mode IEC 60825 (2001)
Orientation accuracy	
Resolution in azimuth	1°
Resolution in elevation	0.5°
Tilt range	±85°
Azimuth range	360°
Interfaces	
Serial data	RS232 for uploading new firing tables
Power	Standard AA Battery or DC backup power wired through connector
Mounting	Picatinny Mil-1913
Physical characteristics	
Length	160mm
Width	50mm (average)
Height	90mm (average)
Weight	<500g (including batteries)



SCORPIO - aiming and firing



For more information please email infomarketing@selex-es.com

Selex ES S.p.A. - A Finmeccanica Company

Via delle Officine Galileo, 1 - 50013 Campi Bisenzio (FI) - Italy - Tel: +39 055 89501 - Fax: +39 055 8950600

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