



VIPER

Target Acquisition and Fire Control System for Light and Medium Weapons

VIPER is a versatile, lightweight, Target Acquisition and Fire Control System (FCS) designed to substantially improve first-hit probability.

VIPER's high-precision fire control supports system ballistic compensation. Calculations, based on range, type of ammunition and other factors, are translated into a displayed "floating reticle" that instantly becomes the aiming dot. In addition, a special side prism enables the shooter to keep his eye on the target, even at high elevation angles. The system also compensates for tilt and roll. All these facilitate accurate, rapid weapon fire under adverse environmental and combat conditions.

- Precise boresight retention even after firing thousands of rounds.
- Indispensable for fighting infantry equipped with both standard small-arms rounds and special munitions, e.g., high trajectory, low-velocity munitions, explosive projectiles and munitions that VIPER programs for delayed detonation on target (e.g., air burst munitions).

- »» Powered by 3 Lithium batteries (9.6V)
- »» Built-in LRF (20-500m; $\pm 3m$ accuracy)
- »» X1 optical channel with graphic overlay
- »» Integrated Inclinometer
- »» Ballistic and small arms operation modes
- »» Ruggedized metal casing
- »» Picatinny rail mounting adapter
- »» Optional IR Pointer



Technical Characteristics

Optics & Sensors

Viewing Channel

FOV	Vertical - 35°; Horizontal - 10°
Display Type	Monochrome Active Matrix LCD, 640 x 480
Parallax (max.)	0.25 mRad at infinity
Graphics Color	Red (reticle & symbols)

Laser Rangefinder (LRF)

Wavelength	1.55µm
Range	20-500 m (out-of-range & multiple target indication)
Accuracy & Resolution	±3m

Channel Alignment (LRF, Aiming Reticle, Optional Pointer)

Better than 0.4 mRad

IR Pointer (Optional)

Type	Dual-wavelength
Power	Red – 1 mW/ IR – 0.4 mW
Wavelength	Red – 650 nm/ IR – 850 nm
Beam	
Divergence	<0.5 mrad

Electrical

Power source	9.6 V DC (3 x standard Lithium CR123 batteries or single externally-rechargeable battery)
Current Consumption	<300 mA (ballistic mode); <150 mA (small arms mode)
Indicators	Low voltage
Power Save	Power shuts off automatically when the system is stationary; power is resumed immediately when movement is sensed

Physical

Dimensions (LxWxH)	160 x 120 x 85 mm
Weight	1 kg
Interface	Picatinny mount adapter

Environmental

Complies with MIL-STD-810



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