



Fraser-Volpe

MARS

Multi-Purpose Aiming Reflex Sight

For Speed, Accuracy & Survivability . . . Depend on the Best



- Rugged Construction
- Simple, Intuitive Operation
- Integrated, Pressure Activated Laser Pointer (IR or Red)
- Automatic Brightness Compensation
- Easy Bore Sighting
- Sleep Mode

The Fraser-Volpe MARS (Multi-Purpose Aiming Reflex Sight) is controlled under the U.S. International Traffic in Arms Regulations (ITAR) Part 121, Category XII, *(a) and *(b) and may not be exported to a foreign person, either in the U.S. or abroad, without a license or exemption from the U.S. State Department.

Made in the USA





FULLY INTEGRATED



RIGHT HAND



LEFT HAND



RED DOT



QUICK MOUNT

MARS

Features

- Reflex sight, solid prism not holographic
- Quick release mount on Picatinny rail
- Easy zeroing of Reflex Sight and Laser with single adjustment
- Coated optics without glare or corona affect in the sight window
- Undetectable aiming dot with NVGs from the front
- Replaces multiple "bolt on" components
- World-wide military and law enforcement usage

Specifications

OPTICS & SENSORS

Magnification	1x
Sight exit aperture	25mm
Reflex dot diameter	0.3mRad (about 1" @ 100m)
Parallax	<0.2mRad at infinity
Light transmission	85% for photopic response
Red dot compensation	Automatic, dynamic range = 1:10,000
Dot intensity control, 5 positions	OFF, HIGH, MEDIUM, LOW, VERY LOW (NVGs)
Optical distortion	0.5° angular deviation of parallel light beams through the sight

LASER POINTERS

Red	650nm, 1.0 mW, Class 2 (IEC 825-1)
IR (optional)	850nm, 0.4 mW, Class 1 (IEC 825-1) **restricted to law enforcement and military only
Beam divergence	0.5mRad

ZEROING

Adjustment	Reflex sight and pointing lasers adjusted with one operation
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NSN	MARS-RED	1240-01-490-7312
	MARS-IR	1240-01-490-7308

PHYSICAL

Weight	15.2oz. with battery and cable
Dimensions	4.9in (L), 1.7in (W), 3.4in (H)
Adapter	Picatinny rail

ELECTRICAL

Power Source	Single 1.5V "AA" battery
Reflex Sight operation	200hr continuous
Laser pointer	10,000 operations of 5 sec each
Low voltage warning sight operation	@ 1V ±0.1V, non-interfering with sight operation

RELIABILITY

Laser switch lifetime	Min 40,000 operations
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ENVIRONMENTAL

Temperature Range	MIL STD 810F -20° C to +55° C
Humidity	95% at +70° C
Thermal shock	-20° C to +70° C
Immersion	1m, 30min.
Salt fog, dust and sand	
Altitude	15,000ft-50,000ft (non-operating)
Shock	30g for 11ms

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