

# MARS

**Instantly Engaged – ON TARGET!**



For **Speed, Accuracy & Survivability**...depend on the best

## MARS

- ✓ Multi-purpose aiming reflex sight
- ✓ Rugged construction
- ✓ Simple, intuitive operation
- ✓ Integrated, pressure-activated laser pointer (IR or Red)
- ✓ Automatic brightness compensation
- ✓ Easy bore sighting

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!**

# Specifications



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

### 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)<br>**restricted to law enforcement and military only |
| Beam divergence | 0.5mRad   |

### ZEROING

|            |  |
|------------|--|
| Adjustment | Reflex sight and pointing lasers adjusted with one operation |
|------------|--|

### 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    | @ 1V ±0.1V, non-interfering with sight operation |

### RELIABILITY

|                       |                       |
|-----------------------|-----------------------|
| Laser switch lifetime | Min 40,000 operations |
|-----------------------|-----------------------|

### ENVIRONMENTAL

|                         |                                   |
|-------------------------|-----------------------------------|
| Temperature Range       | MIL STD 810F<br>-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                      |

|     |          |                  |
|-----|----------|------------------|
| NSN | MARS-RED | 1240-01-490-7312 |
|     | MARS-IR  | 1240-01-490-7308 |

