



DEFENSE

12x40mm Gyro-Stabilized SPOTTR Engineered with STEDI-EYE® Technology

When you need to ensure that ordinance will be delivered to the intended target, Fraser Optics' Defense Series SPOTTR delivers the clear advantage. The SPOTTR's combat capability is increased because it not only reduces the time for target confirmation, it also minimizes targeting errors that can result in collateral damage. Engineered using Fraser Optics' STEDI-EYE® Technology, the SPOTTR, also a 12x monocular, enhances situational awareness by removing up to 98% of image motion caused by hand or platform movement. Ruggedized to withstand the most extreme operational and environmental conditions, our MILSPEC device provides the proven, tested performance to support the most challenging of missions. When keeping your eye on your target matters most, the SPOTTR offers the clear advantage.

FEATURES

- Advanced gyro-stabilization system
- Up to 98% reduction of image motion
- Fully multi-coated MgF₂ optics for enhanced light transmission
- Fast, accurate target confirmation
- Visual laser spot locator
- Built-in regulator for external power; continuous operation for 8 hours on four CR-123 batteries

SPECIFICATIONS

- Magnification...12x
- Exit pupil...3mm
- Field of view (74m @ 1,000m)...4.3°
- Resolution (day)...4.3 Arc seconds
- Focus adjustment...±4 diopters
- Power (internal)...(4) CR-123 batteries
- Power (external)...6-30 VDC
- Length...8.5"
- Width...7.5" (190mm)
- Height...3.5" (89mm)
- Weight (day)...4.5 lbs (2.04kg)

SPOTTR ADVANTAGES

- Fast, accurate target confirmation
- Visual laser spot locator
- Increase combat capability
- Decrease fratricide and collateral damage
- Gyro-stabilized platform

Fraser Optics products with STEDI-EYE® Technology eliminates motion and enhances clarity providing unparalleled performance and durability, giving users superior operational performance. Built with precision to military standards, our systems have been proven under the harshest conditions, both on and off the battlefield.



FRASER OPTICS®
The Clear Advantage

1025 Thomas Dr, Warminster, PA 18974 • Phone: (215) 443-5240 • Fax: (215) 443-0966
E-mail: info@fraseroptics.com • www.fraseroptics.com

Operational Concept – Typical operational sequence:

1. A patrol is taking fire from an enemy occupied building in a civilian area.
2. JTAC wants fighter to drop a single LGB on the building occupied by enemy combatants.
3. JTAC passes “9-line” format coordinates.
4. Fighter enters JTAC derived coordinates and sees several buildings in targeted area.
5. Fighter fires laser on a single building.
6. JTAC confirms that the correct building is targeted by the fighter or
7. JTAC provides directions to shift laser spot to the target building.
8. JTAC “clears hot” for fighter LGB attack.

Ground combat personnel (JTAC) pass target information and coordinates (map or GPS-aided) to fighter/bomber aircraft using standard “9-line” format. The aircraft fires the laser at the target coordinates from a distance and JTAC looks through the SPOTTR to determine if the aircraft is illuminating the correct target. If so, then JTAC can “clear hot” the aircraft to drop laser guided bombs (LGBs) or employ other ordnance with greatly increased assurance that the pilot is on the correct target. This is especially important if friendly troops are nearby in a close air-support (CAS) environment. If the laser is not on correct target, JTAC can shift the laser spot using cardinal directions (N,S,E,W) and distance to the correct target (aircraft targeting pods have North arrows and meter sticks on displays). With SPOTTR, lengthy and sometimes confusing JTAC to fighter and fighter to JTAC “target talk-ons” are virtually eliminated and fratricide potential is greatly reduced since JTAC has direct confirmation of aircraft sensor location.

The primary users are JTACs assigned to Air Support Operation Squadrons attached to Army Brigades/Divisions. However, the SPOTTR tracking capability also could be employed by special forces, Marine JTACs and in aircraft. The SPOTTR also provides useful battlefield information by determining whether friendly combatants or equipment are being illuminated by a 1.06um laser(s).

Fraser Optics’ SPOTTR is ITAR controlled.