

SCHOTT® FOSS

Flexible Fiber Optic Sighting System

Product Description

The SCHOTT Flexible Fiber Optic Sighting System (FOSS) utilizes SCHOTT's wound fiber bundle technology and passively transmits images without emitting a thermal signature. The use of flexible imaging fiber optics reduces the physical size and weight of existing direct view fire control/observation systems. In addition, the bundles can absorb vibrations better than conventional optics and the flexible design allows for FOSS to be routed through a platform's structure and retrofitted to existing turrets and hulls.

SCHOTT's efforts are focused on the advancement of fiber optics for integration into fire control systems. SCHOTT's fiber optic design eliminates the need for multiple prisms and fixed optical paths, as well as multiple imaging tubes and associated components. The ability to engage targets when the platform is operated in degraded modes continues to remain a requirement.

FOSS's minimal footprint will provide the necessary space inside the turret and platform to host inbound next generation technologies and overcome obsolescence associated with legacy direct view systems.



Photo courtesy of the US DoD



Photo courtesy of the US DoD

Product Features

Major Feature	Specification
Power Supply	Passive System- No Power Required
Ruggedized	MIL-STD-810G Bundle
Mounting Position	Flexible nature allows multiple options
Optical Fiber Length	Customized to Specific Application up to 4.5 meters
Optical Fiber Format Size	Up to 40 x 40mm
Numerical Aperture	0.65
Optical Fiber Resolution	Up to 45 lp/mm
Weight	Determined by bundle diameter and sheathing

Product Benefits

- Smaller system size allows for more interior platform space
- Lighter than traditional direct view sighting systems
- Flexible design for multiple mounting locations
- Easy to route and integrate into new and existing combat platforms
- Compatible with multiple lenses, laser filters and reticles to meet end use requirements
- Mature technology (TRL-8) – bundle fielded in multiple applications
- Provides situational awareness in passive mode
- Minimized through hull penetration due to flexible design

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