

SCHOTT® Flexible Viewing

Flexible Fiber Optic Imaging Bundles for Ruggedized Night Vision or Remote Viewing and Targeting Imaging Applications



SCHOTT FlexEye Night

Designed for nighttime urban operations, the FlexEye depicted above is attached to an image intensifier system. Flexible imaging bundles allow soldiers to remotely view around obstacles while maintaining a covered position to greatly enhance soldier survivability.



SCHOTT FlexSight

Designed for urban operations, this flexible imaging bundle can be mounted to a weapon to allow soldiers the ability to remotely view and/or target around obstacles while maintaining a covered position to greatly enhance soldier survivability.



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Bundle Specifications

Fiber Designation	75C or equivalent
Optical Imaging Area	4x4 mm bundle quality area – Full eyepiece illumination
Length	2 feet, up to 15 feet **longer lengths available for specific applications**
Single Fiber Size	60x60 um, 10 um elements, 6x6 array
Numerical Aperture	0.64
Typical Resolution*	45 lp/mm
Transmission (Bundle)	40% - 50% (length dependent) @ 400 – 1000 nm
Minimum Bending Radius (long term)	50 mm (sheathing dependent)
Jacket Diameter	Ø 8.0 ± 0.1 mm (others on request)
Temperature Resistance	-40°C to +125°C (-40°F to +257°F)
Chemical Resistance	Resistant against oil, grease, bases, acid, fuel, water
Flammability	Flame retardant and self-extinguishing (in accordance to manufacturer data)
Outer Jacket Color	Black
Maximum Tensile Force	> 180N (IEC 793 2A4) or > 40.5 lbf
Weight (bundle assembly)	2.38 lbs

* Resolution Measurement performed with an 1951 USAF Resolution Target using diffuse white light illumination. Resolution may vary with other wavelengths.

Performance Characteristics

Image bundle is coupled to conventional Night Vision Goggles or mounted to a weapon via standard picatinny rail.

Fiber Optic imaging technology provides high resolution / image quality

Objective lens design can be modified for specific applications

Optional IR illumination at objective end of bundle

Designed for quick connect/disconnect from NVG and viewing by right or left eye.

Image bundle is completely passive – power requirements for NVG and IR Illuminator only

Flexible design allows bundle to be coiled for storage

Industry proven reliability and durability

For more information please contact

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