

In Development

# NightViper

Flexible Fiber Optic Bundle for Ruggedized Night Vision Imaging Applications



## NightViper


Designed for nighttime urban operations, this image intensified, flexible imaging bundle allows soldiers to remotely view around obstacles while maintaining a covered position to greatly enhance soldier survivability.

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## Bundle Specifications

Fiber Designation	A2 or equivalent
Optical Imaging Area	4x4 mm bundle quality area – Full eyepiece illumination
Length	2 feet, up to 4 feet **longer lengths available for specific applications**
Single Fiber Size	60x60 um, 10 um elements, 6x6 array
Numerical Aperture	0.64
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) up to 150°C /302°F with alternative jacketing
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

## Performance Characteristics

Image bundle is coupled to conventional Night Vision Goggles	
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	
Environmental specs compatible with conventional NVG systems	
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	

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