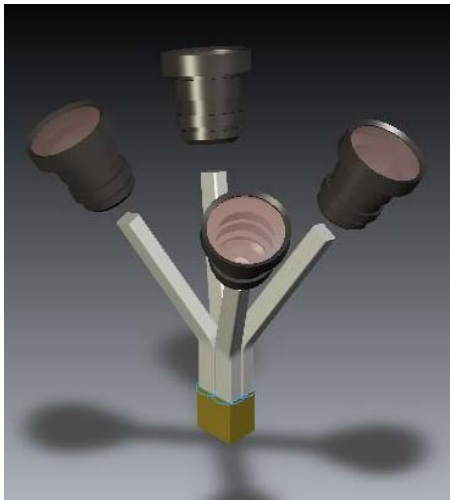


Image Assemblers

Multi-leg fiber optics combine images for segmented viewing capability



Photograph courtesy of the US Air Force



Overlapping fields of view or individual discrete images are possible. SCHOTT is also able to provide custom total imaging systems including lenses, housings, and camera packages.

Fiber optic image assemblers provide highly customized imaging solutions for demanding applications. Available in both rigid image conduit and flexible wound fiber bundle versions, these systems can be readily bent and shaped to conform to a prescribed light path.

We're the number one fiber optics component supplier in the world for night vision technology. Our superior lightweight glass and glass-ceramics offer enhanced ballistic performance and survivability across a wide range of force protection products. In addition, our advanced materials solutions span the full UV to IR spectrum and are found in satellites, missile domes, lasers and more. Our hermetically sealed electronic packaging is the building block for the world's state of the art sensors, radars and communication systems. By land. By sea. By air, By SCHOTT.

Sample Applications

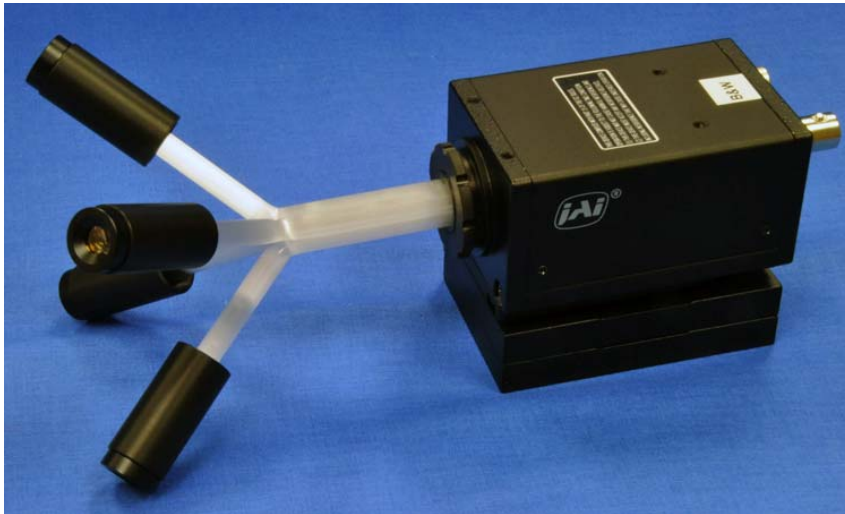
Surveillance for defense including unmanned aerial vehicles, ground vehicles, and military installations

Remote monitoring of critical aircraft / vehicle compartments, systems, and components

Surveillance for high crime areas, banks, convenience stores, and home security

Process monitoring and production control

Light collection and detection, including rocket plume tests and muzzle flashes



Performance Characteristics

- Versatile imaging system transmits four (or more) views to one common sensor
- Flexible wound fiber bundle or rigid image conduit versions available
- Wide range of lenses available for one overlapping field of view, or individual discrete images
- Eliminates need for multiple cameras, power supplies, cables, multiplexers, pan / tilt heads, etc.
- Can be used to collect, detect, or measure light output from various sources including muzzle flash and rocket plume
- Assembly can be bonded directly to a CCD / CMOS sensor, or use relay lens for quick disconnect and interchangeability
- Complete systems designs including lenses, housings, and camera packaging

Product Specifications

	Rigid Image Conduit Version	Flexible Wound Fiber Bundle Version
Single fiber size	12, 24, 50, and 100 μm	10 μm
Resolution	40 lp/mm (up to 100 lp/mm with fused fibers)	45 lp/mm
Transmission	80% @400-1000 μm (length dependent)	40 – 50% @400-1000 μm (length dependent)
Length	Up to 2 m (longer custom applications available)	2 – 10 m
Field of view	Dependent on lens selection and position – many lens choices available	
Camera / housing	Can be designed to work with any camera – custom housing designs available	

For more information please contact

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