

SWIR Hyperspectral Lenses

Navitar's 1" fixed focal length SWIR Hyperspectral lenses are specifically designed for SWIR (short wave infrared) cameras and applications. These lenses are:

- Available in 25mm, 35mm, and 50mm focal lengths
- Coated for optimized imaging in the SWIR wavelength
- Constructed for rugged environments
- Designed to cover 1" (16 mm diagonal) sensors
- Offer high resolution images and transmission in the 700nm - 1900nm wavelength of 75% or better
- Provide superior image quality and maximum transmission



SWIR imaging applications require the optical system to efficiently transmit light in visible, near infrared and short wave infrared wavelengths. In order to accomplish this task the lens design and coatings must be capable of maintaining a high level of transmission throughout a broad wavelength range. Navitar's SWIR lenses are capable of offering high resolution images in conditions ranging from bright day light, fog/haze, twilight and dusk.

These C-mount lenses are ideal for a variety of imaging applications where SWIR cameras are employed such as perimeter surveillance, food sorting, toll-way monitoring, border and port security, quality control or aerial imaging.

1" Format Fixed Focal Length SWIR Hyperspectral Lenses

(Manual iris and focus control with locking screws are standard with all lens models.)

Part #	Focal Length (mm)	F-Stop/Iris Range	Object Area (mm) at M.O.D. 1"	Object Area (mm) at M.O.D. 2/3"	Object Area (mm) at M.O.D. 1/2"	Lens Dimensions (mm)	Filter Diameter
SWIR-25	25	1.4 - 16	161h x 120v	109h x 82v	79h x 59v	57 x 58	ø35.5 P=0.5
SWIR-35	35	1.4 - 16	110h x 82v	75h x 56v	54h x 41v	42 x 52	ø35.5 P=0.5
SWIR-50	50	1.4 - 16	122h x 91v	84h x 63v	61h x 46v	42 x 52.9	ø40.5 P=0.5

For pricing and a complete list of Navitar Video lenses visit our website at <http://machinevision.navitar.com> or contact your sales representative at 585-359-4000.