

ImSpector NIR imaging spectrograph

SPECIM ImSpector is designed for the NIR wavelength ranges 900 - 1700 nm. ImSpectors provide easiest integration and highest optical performance for NIR ranges on the market.

Near infrared wavelength range

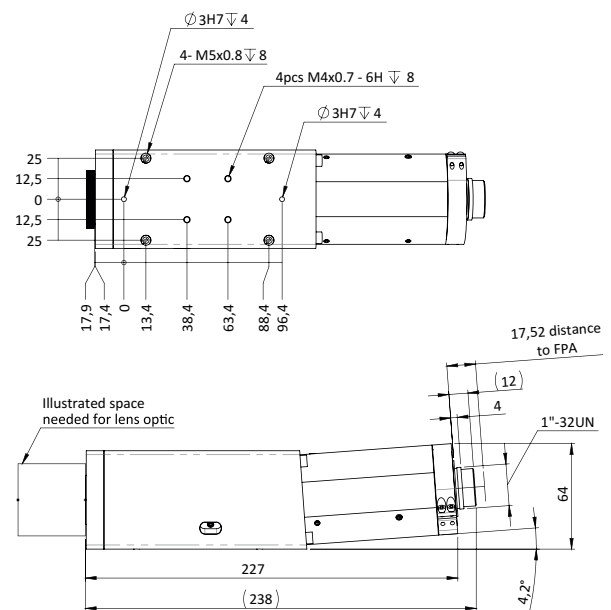
IMSPECTOR N17E	
Optical characteristics	
Spectral range	900 - 1700nm
Dispersion	110nm/mm
Spectral resolution *1	5nm (with 30µm slit)
Image size	max. 7.6 (spectral) x 14.2 (spatial) mm
Spatial resolution *1	rms spot radius < 15µm *1
Aberrations	No astigmatism
Bending of spectral lines across spatial axis	Smile < 5µm
Bending of spatial lines across spectral axis	Keystone < 5µm
Numerical aperture	F/2.0
Slit width, default	30µm (50, 80 and 150µm on request)
Slit length	14.2mm
Optical input	Telecentric
Efficiency	> 50%, independent of polarization
Stray light	< 0.5% (halogen lamp, 1400nm long-pass filter)
Mechanical characteristics	
Size, OEM	(W)60 x (H) 60 x (L) 220mm
Weight	1500g
Body, OEM	Anonized aluminium tube
Lens and camera mount	Standard C-mount for lens
	Standard C-or U-mount adapter for camera
User adjustments	Image axis relative to detector rows, back focal length adjustable ± 1mm
Environmental characteristics	
Storage	-20 ... +85 °C, non-condensing
Operating	+5 ... +40°C, non-condensing

*1 System spectral and spatial resolutions also depend on the discrete imaging nature of detector and lens quality.

Options, fore optics (NIR, SWIR)

- Fore optics: OLES15, OLES22.5, OLES30 and OLES56

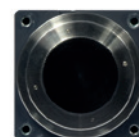
More information about fore optics can be found from Hyperspectral fore lenses -data sheet.



ImSpector N17E mechanical dimensions



ImSpector N17E spectrograph, side view



ImSpector N17E spectrograph, front view

NOTE: product information and images are subjects to change without prior notice.