imspector V16M

SPECIM's new ImSpector M-series imaging spectrographs are designed to respond to market demand. ImSpector V16M introduces the extended NIR wavelength range (600-1600 nm) providing new possibilities for hyperspectral imaging applications in vegetation, food, and semiconductors.

» INTRODUCING EXTENDED NIR WAVELENGTH RANGE "eNIR" WITH SUPERIOR OPTICAL PERFORMANCE «

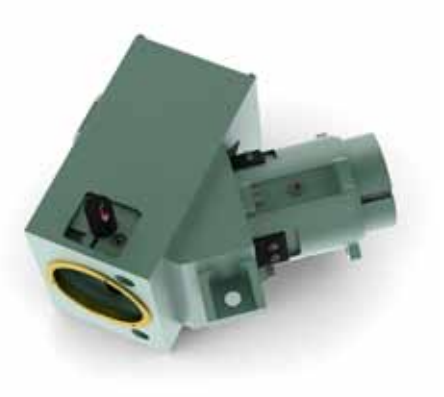
IMSPECTOR	V16M
Optical characteristics	
Spectral range	600 - 1600 nm
Dispersion	137 nm/mm
Spectral resolution *	3.25 nm (with 30 µm slit)
Image size	max. 7.3 (spectral) x 16.0 (spatial) mm
Spatial resolution *	RMS spot diam. < 25µm *
Aberrations	No astigmatism
Bending of spectral lines across spatial axis	Smile < 0.3µm
Bending of spatial lines across spectral axis	Keystone < 1.6µm
Numerical aperture	F/2.4
Slit width	18 µm or 30 µm
Slit length	18 mm
Mechanical characteristics	
Size, OEM (W x H x L)	115 x 95 x 100 mm
Weight	1100 g
Body, OEM	Anonized aluminium tube
Lens mount	M42 universal thread (Pentax)
Camera mount	Custom
User adjustments	Back focal length
Environmental characteristics	
Storage	-40 ... +71 °C, non-condensing
Operating	0 ... +40°C, non-condensing

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

Patent pending

Key benefits

- Flat field image size up to 18 mm
- Superb spectral and spatial image quality
- Negligible, sub-pixel smile and keystone
- Superior light throughput for high signal-to-noise ratio
- Athermalized design for operation in harsh conditions
- User exchangeable fore lens



ImSpector V16M imaging spectrograph

IMAGING SPECTROGRAPHS