

inspector V10M

SPECIM's new ImSpector M -series imaging spectrographs are designed to respond to market demand. V10M provides very high resolution hyperspectral imaging performance and exceptionally compact format required for Unmanned Aerial Vehicles (UAV) and other demanding applications.

» EXCEPTIONALLY LARGE SPATIAL IMAGE SIZE FOR DETECTOR SIZE UP TO 24 MM «

IM SPECTOR	V10M
Optical characteristics	
Spectral range	350 - 1000 nm
Dispersion	111 nm/mm
Spectral resolution *	1.5 nm (with 18µm slit)
Image size	max. 7.0 (spectral) x 24.0 (spatial) mm
Spatial resolution *	RMS spot diam. < 13µm *
Aberrations	No astigmatism
Bending of spectral lines across spatial axis	Smile < 2µm
Bending of spatial lines across spectral axis	Keystone < 2µm
Numerical aperture	F/2.4
Slit width	18 µm or 30 µm
Slit length	30.0 mm
Mechanical characteristics	
Size, OEM (W x H x L)	115 x 95 x 100 mm
Weight	600 g
Body, OEM	Anonized aluminium tube
Lens mount	M42 universal thread (Pentax)
Camera mount	Custom
User adjustments	Back focus
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.

Key benefits

- Flat field image size up to 24 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 optic



ImSpector V10M imaging spectrograph