

IMSPECTOR 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 «

IMSPECTOR		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	C-mount (removable)	
User adjustments		
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 integrated with fore optics and high resolution camera.