



REINVENTING HYPERSPETRAL IMAGING

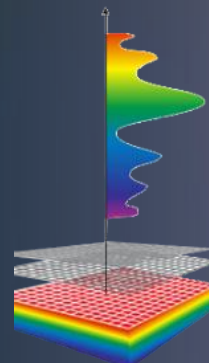
SPECTRICON empowers
researchers and professionals with
the most advanced hyper-/multi-
spectral camera systems

MUSES9-HS

The next generation hyperspectral imaging technology

Technology

The heart of MUSES9-HS hyperspectral imager is an electro-optic tunable filter module, which automatically selects and tunes the imaging central wavelength. The tunable filter is synchronized with the imaging sensor module, so that several narrow-band images are captured during a spectral scanning. In the image domain, the data set includes a full image at each individual wavelength. In the spectroscopy domain, a fully resolved spectrum at each individual pixel is recorded. Bulky mechanical scanners are no longer required, to the benefit of portability, set up simplicity, versatility and direct adaptability to all kinds of lenses, microscopes and telescopes



Competitive Advantages

- Spectral scanning technology, requiring no mechanical scanning to acquire the hypercube
- Video-rate spectral imaging at any desired wavelength
- No post-processing is required to obtain spectral images
- Superb light sensitivity (94% light throughput), no longer restricted by slit
- 4K level spatial resolution
- Distortion and saturation effects-free spectral imaging
- Embedded autofocusing electro-optics eliminate spectral image defocusing due to chromatic aberrations
- Automatic, dynamic range-preserving calibration
- C-mount popular thread, offering freedom in lens selection
- Fully automated, turnkey operation
- Advanced software platform for camera control, calibration, pixel level spectroscopy and spectral classification mapping



SPECTRICON

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MUSES9-HS

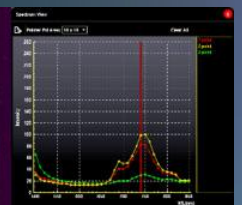
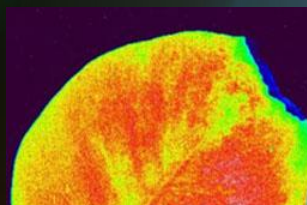
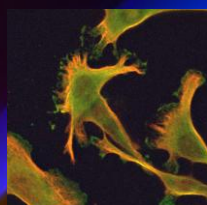
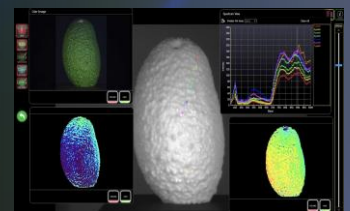
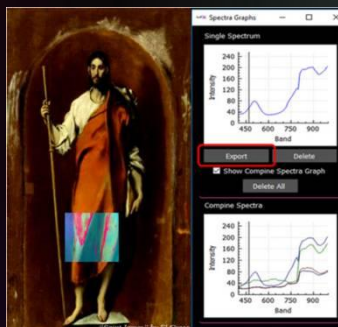
The tunable filter hyperspectral imaging superiority

Specifications

	MUSES9 HS3-1	MUSES9 HS1-7	MUSES9 HS3-7
Spectral range	370-1000nm	1000-1700nm	370-1700nm
Filter's light throughput	90% (polarization independent)		
Spectral bands	126	124	250
Tuning step	5-15nm selectable		
Full spectral cube scanning time	~40s (exposure limited)		
Spectral image inspection	Video rate spectral imaging at any selected wavelength		
Supported imaging modes	transmission, fluorescence and reflection		
Spatial resolution/band	6.4 Megapixel	5.32 Megapixel	5.32 Megapixel
Mechanical scanning	not required		
Camera thread	C- or F-mount		
Dynamic range	12 bit		
Camera interface	USB3.0		
Calibration	automatic in all imaging modes		
Software	camera control, pixel level spectroscopy, spectral classification mapping		
Accessories	integrated light sources, λ lambda ³⁺ software suite for spectral cube analysis		

Applications

- Nondestructive analysis
- Remote sensing
- Drone imaging
- Minerology
- Plant pathology
- Microscopy
- Artwork nondestructive testing
- Archaeology
- Food shorting
- Forensics
- Biomedicine



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