ProCareLight
Light, Laser and Safety Solutions
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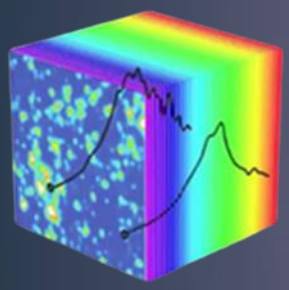
MUSES9-SnS

Removing trade-offs between spatial, spectral and temporal resolution

Technology

The MUSES9-SnS Snapshot spectral imager combines video rate acquisition of 4K resolution spectral cube packs, with ultrafast spectral estimation and classification mapping. Pushing the limits of what is possible in imaging science, MUSES9-SnS handheld camera displays color, spectral and spectral mapping images, all side-by-side and in real time. This camera system is ideal for a plethora of dedicated applications, requiring moderate spectral sampling but ultrahigh spatial and temporal resolution.



Competitive Advantages

- Snapshot capturing of the entire spectral cube
- Video-rate simultaneous capturing and side-by-side display of all spectral cube images, plus color and classification spectral mapping images
- Ultra fast spectral cube acquisition (19 ms)
- Incomparable, 4K level spatial resolution for all spectral bands supported
- Handheld, lightweighted, tablet PC battery operable design
- Acquires 8 customizable spectral bands, extendable to 24 bands with smart spectral estimation. All spectral bands are acquired and displayed with the same high spatial (4K) and temporal resolution
- Superb light sensitivity (90% light throughput)
- 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 Reinventing hyperspectral Imaging

MUSES9-SnS

Spectral Vision enabled

Specifications

- Spectral range: 370-1000nm
- Light throughput of spectral filtering: 90% (polarization independent)
- Spectral bands: 8 (extendable to 24)
- Spectral Cube acquisition rate: 53 cubes/s (exposure limited)
- Spectral image inspection: all spectral cube images are available for live inspection
- Supported imaging modes: transmission, fluorescence and reflection modes
- Spatial resolution/band: 6.4 million pixels (3096HX2080V). Binning options provided
- Number of spectra per spectral cube: 6.4 million spectra
- Camera thread: c-mount freedom in lens selection, adaptable to all microscopes
- Dynamic range: 12 bit
- Camera interface: USB3.0
- Calibration: automatic in all imaging modes
- Software: camera control, pixel level spectroscopy, spectral classification mapping
- Weight: 480 g
- Accessories: integrated light sources, λambda^{3+} software suite for spectral cube analysis

Applications

- Nondestructive analysis
- Production line inspection
- Robotic hyper vision
- Remote sensing
- Drone imaging
- Surveillance
- Waste monitoring
- Plant pathology
- Microscopy
- Artwork nondestructive testing
- Archaeology
- Food sorting
- Forensics
- Biomedicine

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