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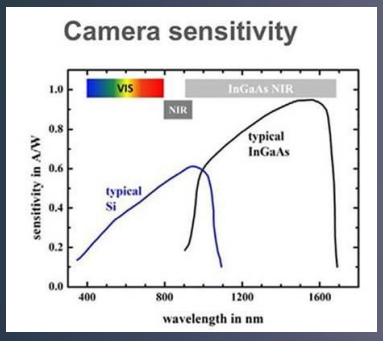
MUSES9-MS1700

Broadening spectral range, expanding addressable apps

Technology

MUSES9-MS1700 spectral camera addresses the demand for combining spectral information from UV-VIS-NIR-SWIR with a single camera, for advancing the analytical capabilities of spectral imaging in demanding applications. MUSES9-MS is an all in one, dual sensor spectral camera operating in the 365-1700nm spectral range. It effectively addresses the need for an integrated, low volume and weight imager, enabling the direct comparative analysis of the acquired, information-rich dataset. The camera comes with standard and configurable versions.



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 (90% throughput), no longer restricted by slit
- 4K level spatial resolution (Si sensor) 640X512 (InGaAs sensor)
- Distortion and saturation effects-free spectral imaging
- Embedded autofocusing electro-optics eliminate spectral image defocusing due to chromatic aberrations
- Automatic, dynamic range-preserving calibration
- F-mount thread
- Fully automated, turnkey operation
- Advanced software platform for camera control, calibration, pixel level spectroscopy and spectral classification mapping

SPECTRICON Reinventing hyperspectral Imaging

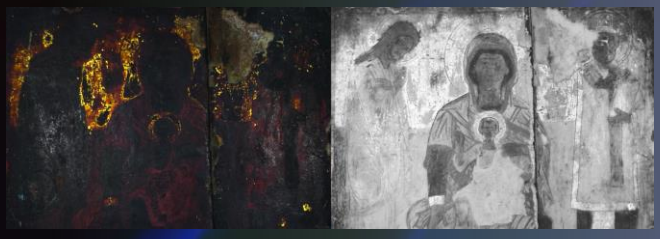
MUSES9-MS1700
Dual sensor technology for advancing analysis

Specifications

- Spectral range: 365-1700nm
- Light throughput of spectral filtering: >92% (polarization independent)
- Spectral bands: 6 (Si)+6 (InGaAs), configurable
- Full spectral cube scanning time: ~10s (exposure limited)
- Spectral image inspection: Video rate spectral imaging at any selected wavelength
- Supported imaging modes: transmission, fluorescence and reflection modes
- Spatial resolution/band: Si: 6.4 million pixels (3096HX2080V), InGaAs: 640X512
- Number of spectra per spectral cube: 328,000 spectra
- Mechanical scanning: not required
- Camera thread: 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
- Weight: 1,85 kg
- Accessories: integrated light sources, λambda^{3+} software suite for spectral cube analysis

Applications

- Airborne Remote sensing
- Agriculture and forestry
- Artwork analysis and archaeology
- Forensics
- Small, lab animal imaging
- Food, plastic and mineral sorting
- Solar panel inspection
- Water content imaging
- Inspection metal coating
- Chemical Imaging
- Pharmaceuticals
- Thermal imaging (over 300°)



SPECTRICON

Redefining hyperspectral Imaging