

HERA IPERSPETTRALE

SWIR 900-1700 nm

HERA IPERSPETTRALE is a compact and rugged camera that enables an innovative approach to spectral imaging.

With its unique and patented technology based on time-domain **Fourier Transform** detection, HERA provides **exceptional spatial-spectral resolution** and superior **sensitivity** in low-light illumination conditions.

Key Features

- High spatial & spectral resolution
- High sensitivity and throughput
- Compact and lightweight
- Export data in ENVI format
- User friendly software
(measurement & first data analysis)

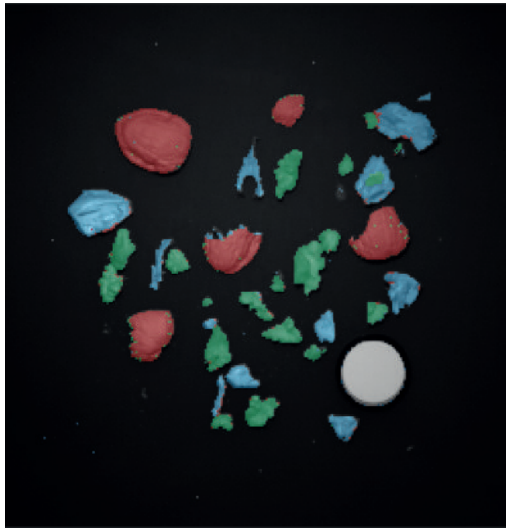
Applications

- Fluorescence imaging
- Sorting of materials
- Biology
- Agriculture and food quality
- Pharmaceuticals
- Art Conservation
- Forensics

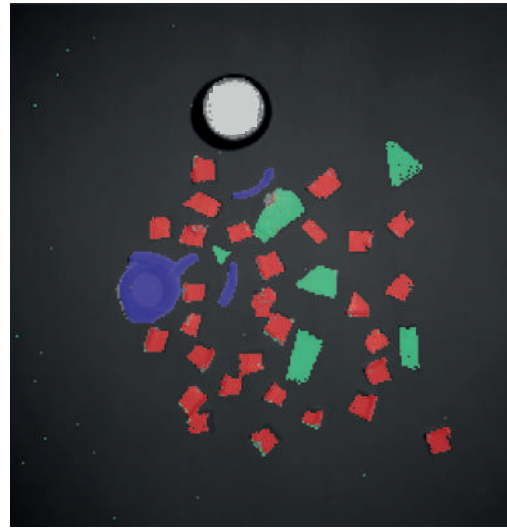
Customer Benefits

- Ease of use: place it on the tripod, point it to the sample and measure
- High performance allows one to have low illumination requirements
- Portable plug and play device





Classified image of walnuts: the shell (in red), the internal skin (in blue) and the kernel (green). The white circle is a Spectralon reference.



Classified image of plastic parts: HDPE (purple), PET (green) and PS (red). The white circle is a Spectralon reference.

Technical specifications

Spectral range	900 - 1700 nm	
Sensor spatial resolution	640 x 512 pixels	320 x 256 pixels
User adjustable spectral resolution	<5 nm @ 900 nm <20 nm @ 1700 nm	
Sensor	cooled InGaAs ($\Delta T = 30^\circ$)	
Number of bits	14 bits	
Software interface	Labview based interface	
Number of spectral bands	∞^*	
Field of view	16 degrees	8 degrees
Working distance	110 cm - ∞	
Dimensions	205 x 150 x 83.5 mm	
Weight	2.5 kg	
Minimum Computer Requirements	16 GB RAM, SSD drive suggested	

* HERA is FT spectroscopy based instrument and number of spectral bands is software selectable and independent from measurement time

Customization upon request:

HERA can be customized to be compatible with microscope systems