NIREOS

HERA IPERSPETTRALE **VIS-NIR** **400-1000 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

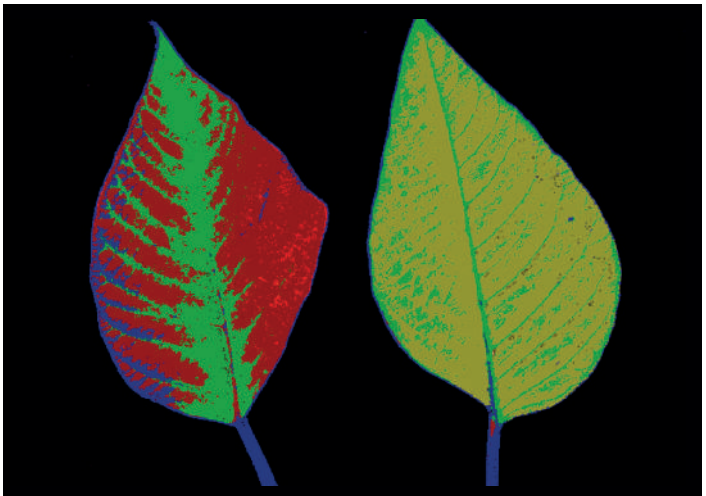
- High spatial & spectral resolution
- High sensitivity and throughput
- Compact and lightweight
- Export data in ENVI format
- User friendly software (measurement & first data analysis)

Applications

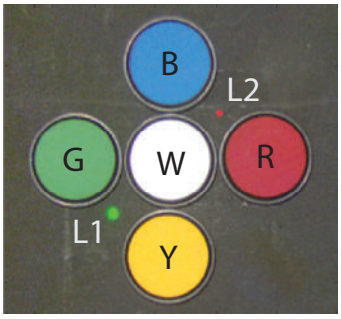
- Fluorescence imaging
- Sorting of materials
- Biology
- Agriculture and food quality
- Pharmaceuticals
- Art Conservation
- Forensics

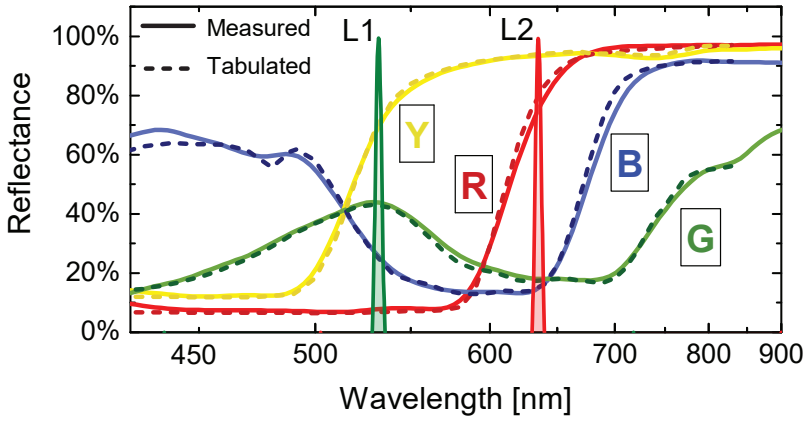
Customer Benefits

- 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



Exploit BUILT-IN FUNCTIONS or EXPORT the DATA in standard formats for an in-depth statistical analysis.





Measurement of spectralon filters. White spectralon was used as a reference. L1 and L2 are laser beams used to present the spectral resolution of HERA.

Technical specifications

Spectral range	400 - 1000 nm
Sensor spatial resolution	1280 x 1024 pixels
User adjustable spectral resolution	<1.5 nm @ 400 nm <10 nm @ 1000 nm
Sensor	CMOS
Number of bits	12 bits
Software interface	Labview based interface
Number of spectral bands	∞*
Field of view	16 degrees
Working distance	250 mm - ∞
Dimensions	205 x 150 x 83.5 mm
Weight	2 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