NIREOS

HERA *an ultra-sensitive hyperspectral camera*

HERA is an innovative global imaging hyperspectral camera system, providing **exceptional spectral resolution** and **sensitivity**.
It is based on a novel technology that allows one to have an unrivaled light throughput, making it the most suitable device for low-light applications.

Key Features

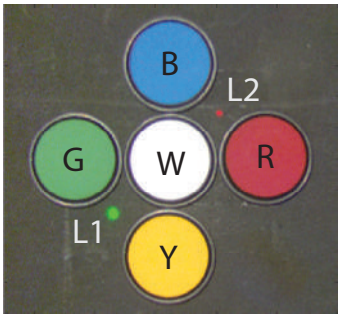
- High resolution
- High sensitivity and throughput
- Compact and lightweight
- HDR mode
- User friendly software
  (measurement & first data analysis)

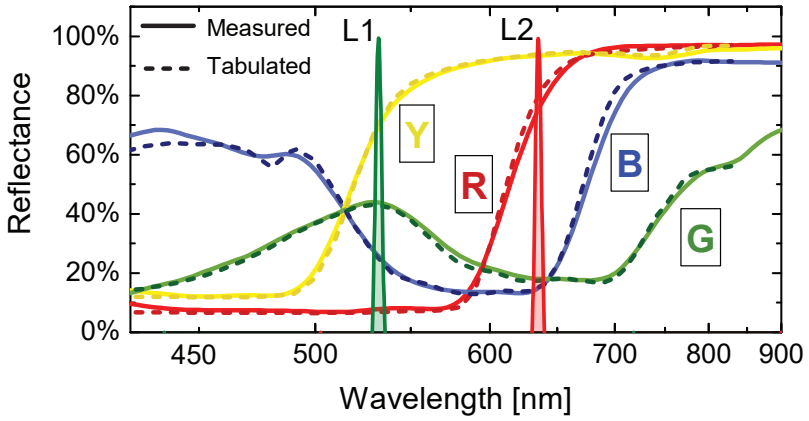
Applications

- 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





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 nm @ 400 nm <5 nm @ 1000 nm
Sensor	CMOS
Number of bits	10 bits
Dynamic range	3500
Software interface	Labview based interface
Number of spectral bands	∞*
Field of view	16 degrees
Working distance	200 mm - ∞
Dimensions	15.7 x 15.5 x 11 cm
Weight	2 kg

* 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 cover 950-1700 nm spectral region.
HERA can be customized to be compatible with microscope systems