

HERA IPERSPETTRALE Ext.SWIR 900-2300 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

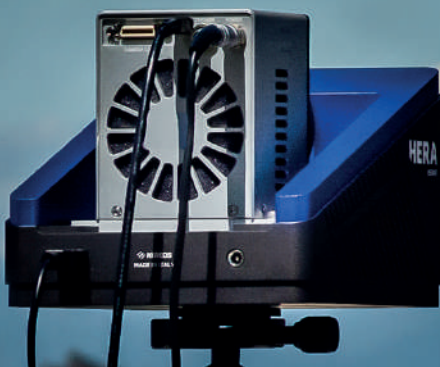
- High spatial & spectral resolution
- High sensitivity and throughput
- Compact and lightweight
- Export data in ENVI format
- User friendly software
(measurement & first data analysis)

Applications

- Remote Sensing
- 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
- Very low dark noise





Example of Hyperspectral Imaging for remote sensing. The image on the right is the result of a classification algorithm, which distinguishes the sky (light blue), the buildings (purple), the tree (and their reflections in the windows of the building, in red) and the solar panels (in yellow).

Technical specifications

Spectral range	900 - 2300 nm
Sensor spatial resolution	320 x 256 pixels
User adjustable spectral resolution	<5 nm @ 900 nm <30 nm @ 2300 nm
Detector Type	T2SL photodiode array with CTIA ROIC, 4-stage TE cooler
Number of bits	14 bits
Software interface	Labview based interface
Number of spectral bands	∞^*
Field of view	16 degrees
Working distance	110 cm - ∞
Dimensions	240 x 170 x 120 mm
Weight	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