

# 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

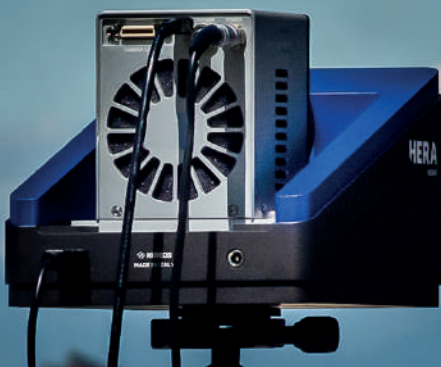
- High spatial & spectral resolution
- High sensitivity and throughput
- Compact and lightweight
- Export data in ENVI format
- User friendly software  
(measurement & first data analysis)

## 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	$\infty^*$
Field of view	16 degrees
Working distance	110 cm - $\infty$
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