

HERA

Hyperspectral Camera VIS-SWIR 400-1700 nm

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

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

Experience the unexpericend.

HERA VIS-SWIR natively provides 1.3 Mpixel hyperspectral images over the 400-1700 nm range without any upscale or data merging algorithm, ensuring unmatched data fidelity, accuracy, and quality for your most demanding applications.

Benefits

- **400-1700 nm spectral coverage in a single measurement**
- Ease of use: place it on the tripod, **point it to the sample and measure**
- Portable, plug and play device

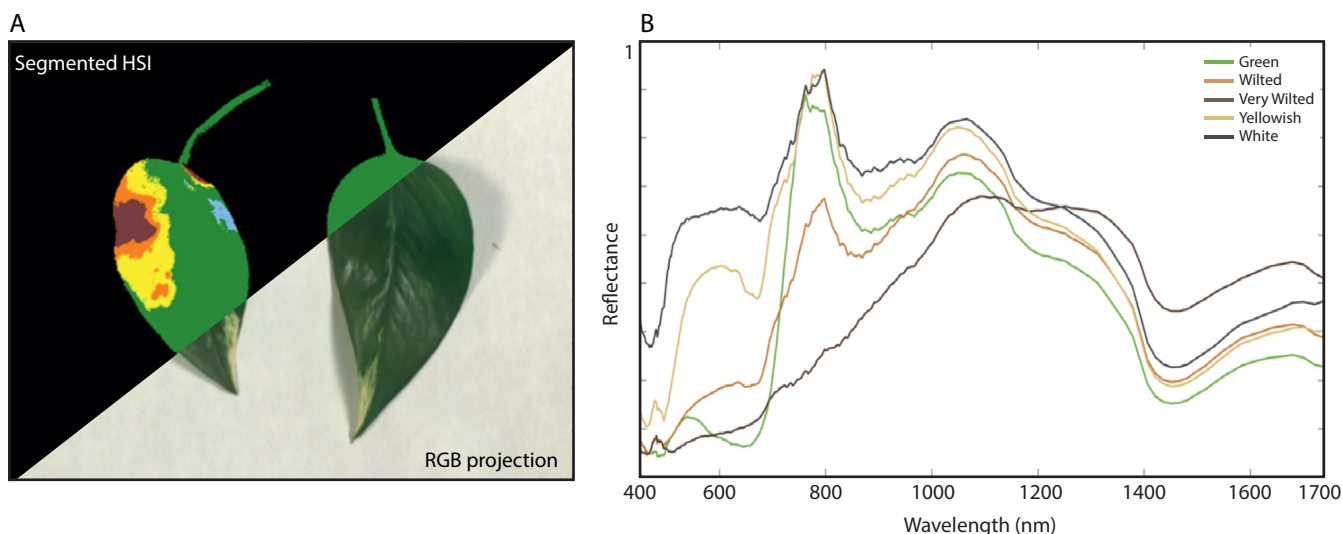
Key Features

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

Main Applications

- Semiconductors and Material Science
- Life science
- Smart Agriculture and Food quality
- Art Conservation
- Forensics
- Plastics and microplastics





Hyperspectral Image of two leaves.

A: The VIS-SWIR spectral range allows to retrieve the RGB image, as well as further chemical information contained in the SWIR region, enabling an automatic segmentation algorithm.

B: reflectance spectra relative to the colored areas in A.

Technical specifications

Spectral range	400 - 1700 nm
Sensor spatial resolution	1280 × 1024 pixels
User adjustable spectral resolution	<1.5 nm @ 400 nm <20 nm @ 1700 nm
Sensor	Sony IMX990
Number of bits	12 bits
Number of spectral bands	∞^*
Field of view	8 degrees
Dimensions	246 × 160 × 107 mm
Weight	3 kg
Minimum Computer Requirements	32 GB RAM, SSD drive suggested

* HERA is a FT spectroscopy based instrument and the number of spectral bands is software selectable

Additional accessories:

Macro Lens, Illumination System, Laptop, Spectralon, Tripod

HERA SWIR is a Dual-Use Product (Annex I of the EU Regulation 2021/821 and subsequent amendments, control code 6A003.b.4.a)