HERA Hyperspectral Camera VNIR 400-1000 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.

Key Features

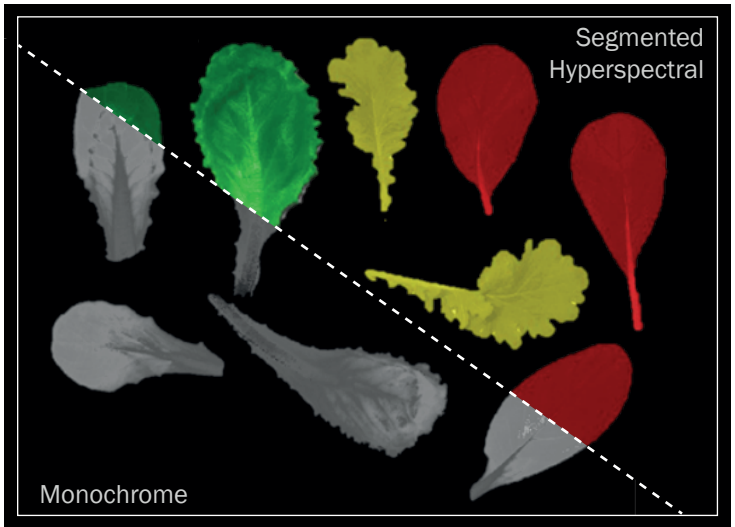
- High spatial & spectral resolution
- High sensitivity and throughput
- Compact and lightweight
- Export data in ENVI format
- User friendly software (measurement & data analysis)

Applications

- Fluorescence imaging
- Semiconductors and Material Science
- Biology and Microbiology
- Agriculture and food quality
- Microscopy
- Art Conservation
- Forensics

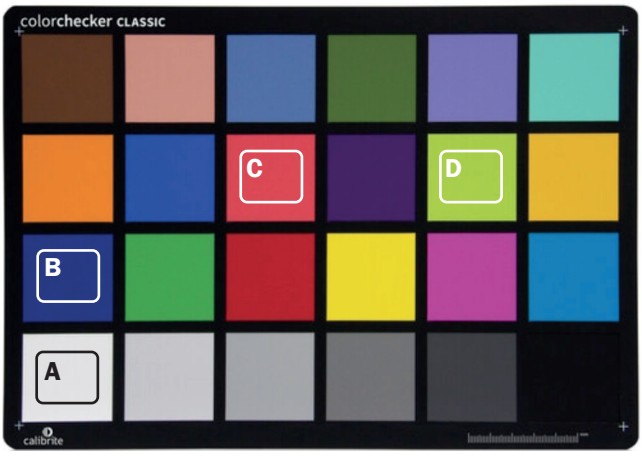
Customer Benefits

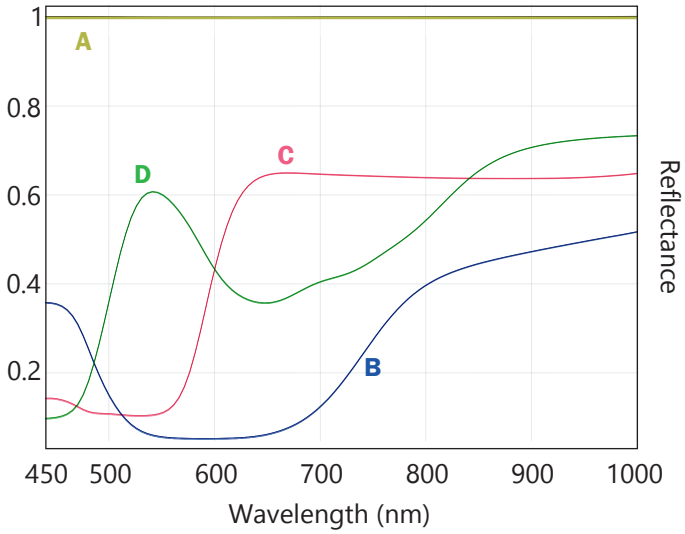
- Ease of use: place it on the tripod, **point it to the sample and measure**
- The high throughput ensures high-quality data even at the lowest light dose
- Portable, plug and play device



Exploit built-in statistical algorithms in the Analysis App to automatically segment the image, or export the hyperspectral image in standard formats for a further processing.







Hyperspectral Image of a ColorChecker reference sample. Left: RGB reconstruction from the hyperspectral image. Right: reflectance spectra relative to the selected areas in RGB reconstruction.

Technical specifications

Spectral range	400 - 1000 nm
Sensor spatial resolution	1280 × 1024 pixels
User adjustable spectral resolution	<1.5 nm @ 400 nm <10 nm @ 1000 nm
Sensor	CMOS
Number of bits	12 bits
Number of spectral bands	Selectable via Software*
Field of view	8 degrees**
Working distance	60 cm - ∞
Dimensions	246 × 150 × 86.5 mm
Weight	2.7 kg
Recommended System Requirements	32 GB RAM, SSD drive suggested

* HERA is a FT spectroscopy based instrument and the number of extracted spectral bands can be chosen depending on the needs. Preset scan modes providing different spectral resolutions (and numbers of bands) are available in the Acquisition App software.
**The Field of View can be extended (up to 16 degrees) or reduced (MACRO imaging) by adding optional lenses in front of the camera.

Additional accessories:
SDK, Microscope adapter (C-mount), FOV extender lens (FOV2), Macro Lens, Illumination System, Laptop, Spectralon, Tripod.