

# UV HYPERSPECTRAL IMAGING SYSTEM



(220 – 380 nm)

The UV Hyperspectral Imaging System is a ready-to-use solution for capturing and analyzing UV hyperspectral images.

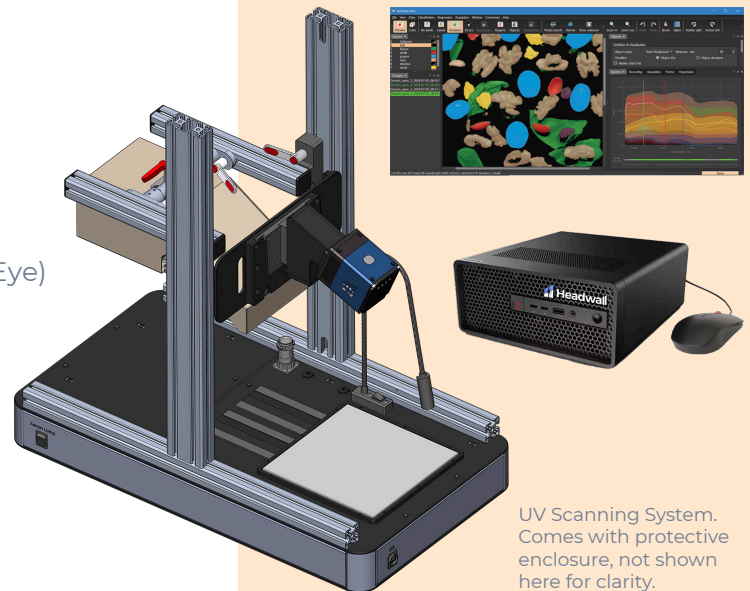
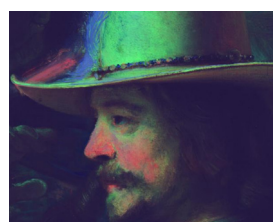
The plug-and-play inno-spec UV Hyperspectral Imaging System contains:

- UV hyperspectral camera (the inno-spec BlueEye)
- UV Scanning Stage (Speccer)
- UV Lamp
- Enclosure for UV safety
- Ozone mitigation system
- Compact desktop computer
- perClass Mira® Data Acquisition and Analysis Software

Its careful design addresses the practical challenges of using UV illumination for hyperspectral imaging. The perClass Mira Software integrates acquisition and analysis in one interface, allowing for rapid and real-time analysis and a smooth transition from development to deployment.

## APPLICATION AREAS:

- Biomedical research and commercial biotechnology
- Pharmaceutical tablet characterization
- Forensics and cultural heritage
- Adhesive and Film Analysis
- Quality control
- Contamination detection
- Chemical analysis



UV Scanning System. Comes with protective enclosure, not shown here for clarity.

## UV HYPERSPECTRAL IMAGING SYSTEM FEATURES:

- HSI sensor covering UVA/B/C
- Adjustable Sensor and Illumination Height
- CE/RoHS certified
- Robust design



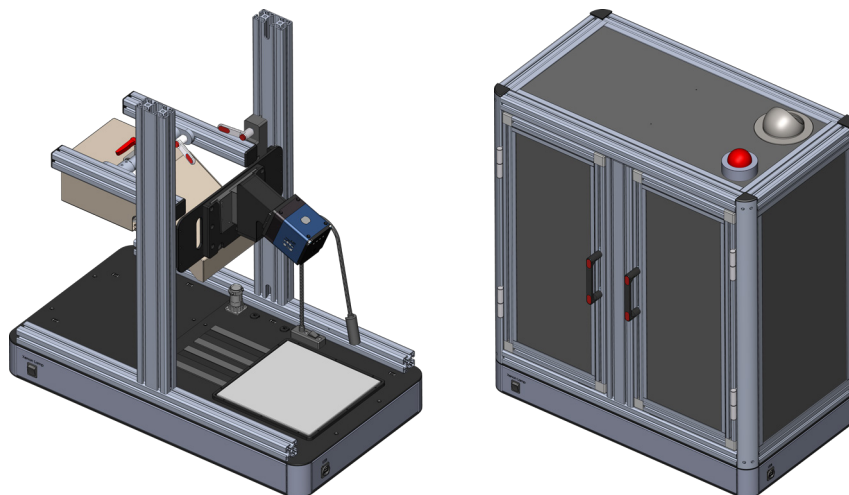
Website



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TECHNICAL SPECIFICATIONS	
Wavelength Range	220 - 380 nm
Pixels (spatial x spectral)	1750 x 1845
Spectral Resolution (FWHM)	< 2 nm (with 80 µm slit)
Sensor	CMOS, Back-Illuminated
Cooling Technology	TEC + Forced Air
Pixel Pitch	6.5 µm x 6.5 µm
Numerical Aperture	f/2.4
Maximum Frame Rate	40 fps (full-frame)
ADC Bit-Depth	16-bit (2 x 12-bit ADC at low- and high-gain)
Digital Interface	USB 3.1 type C (sensor); USB 2.0 (stage)
Sample Scan Speed	1 – 80000 µm/s
Illumination	Broadband Xenon Arc Lamp
Safety Equipment	Interlocked enclosure and ozone scrubber
Sensor Weight (without lens)	1.9 kg
Sensor Dimensions (without lens)	138 x 87 x 204 mm <sup>3</sup>
System Weight	70 kg
Enclosure Dimensions	853 x 492 x 960 mm <sup>3</sup>
Input Power	88 – 267 VAC (47 – 63 Hz)
Maximum Power	30 W (sensor) + 250 W (stage) + 300 W (lamp)
Operational Temperature Range, Humidity	+10 °C to +40 °C, 10 – 80% non-condensing



Rendering of the UV Hyperspectral Scanning system with and without UV safety enclosure

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BlueEye UV hyperspectral camera

## BLUEEYE SENSOR FEATURES AND ACCESSORIES:

- 1800 spectral pixels
- <2 nm spectral resolution
- Adjustable Spatial and Spectral ROI
- USB 3.1 Type-C Interface
- Lens options: 25 mm, 35 mm, 50 mm, 75 mm

As a well-established manufacturer of spectroscopic measurement equipment, **INNO-SPEC** provides optimized solutions for your individual applications; for example, customized OEM cameras for machine builders and system suppliers.