

BLUEEYE

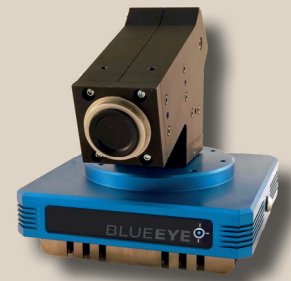
UV Hyperspectral Imaging Camera (190 – 380 nm)

The **BlueEye** is a linescan (pushbroom) ultraviolet hyperspectral imaging camera that allows the acquisition of real-time data with high spatial and spectral resolution.

This high-sensitivity camera is an excellent solution for a vast multitude of biological (e.g. chlorophyll and carotenoid), biochemical (e.g. fluorescence diagnosis of malignancies) and environmental applications.

Combining superior optical design with advanced reflection grating technology, a sensitive TE-cooled CCD detector and high-end electronics, the BlueEye camera provides an exceptional performance even for the most demanding applications.

Dedicated software packages are available for various user requirements.



Features:

- Superior sensitivity and stability
- Outstanding imaging performance
- Robust design without moving parts

Technical Specifications:

BlueEye

Spectrograph

Spectral range	typ. 190 to 380 nm
Dispersion	14.2 nm/mm
Spectral resolution	< 2 nm (with 80 µm slit)
Spatial resolution	rms spot radius < 58 µm
Smile	< 126 µm
Keystone	< 14 µm
F-number	4.38
Slit width, default	80 µm (others on request)

Electronics

Sensor	Backlit CCD
Pixels in full frame	1024 x 1024
Pixel size	13 x 13 µm
Bit depth	16 bit
Frame rate	~ 2 fps
Data interface	USB2
Power consumption	< 40 W
Power supply	12 V
Special feature	Triggering / Cooling

Operating Conditions

Temperature (operating)	0 °C to + 40 °C
Temperature (storage)	-10 °C to + 50 °C

Mechanics

Dimensions l x w x h	200 x 50 x 127 mm
Weight	< 4 kg
Lens mount	S/standard C-mount

Please note that any specs on the data sheet are subject to change without notice.

As a well-established manufacturer of spectroscopic measurement equipment, **inno-spec** provides optimized solutions for any individual applications: from customized OEM components for system suppliers up to fully integrated turnkey solutions for the end-user.

Accessories:

- Fiber optic adapters to use the spectral imaging system UV as a multichannel-spectrometer
- Various mounting accessories
- Conveyor belt or stepper table available
- Several software packages can be provided

