SIMTRUM

BLUEEYE

UV Hyperspectral Imaging Camera (220 – 380 nm)

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

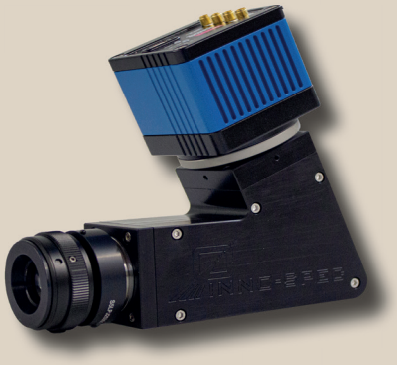
This high-sensitivity camera is an excellent solution for a vast multitude of biological (e.g. chlorophyll and carotenoid), biochemical (e.g. fluorescence diagnosis of malignancies) and environmental applications.

Combining advanced reflection grating technology, a sensitive CMOS detector and high-end electronics with superior optical design, the **BlueEye** camera enables exceptional performance for the most demanding applications.

Dedicated software packages for various user requirements are available.

BEST USE OF

- Back-illuminated CMOS
- 2048 x 2048 px
- Standard C-mount lens
- USB 3.1 interface



Features:

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

Technical Specifications:

BlueEye

Spectrograph

Spectral range	typ. 220 to 380 nm
Dispersion	~0.1 nm / px
Smile	< 160 µm
Keystone	< 20 µm
F/#	2.4
Standard slit-width	80 µm

Electronics

Sensor	Back-illuminated CMOS
Sensor pixels	2048 x 2048
Active area	typ.1845 x 2048
(spatial x spectral) Pixel width	6.5 µm x 6.5 µm
Bit depth	16 bit (2 x 12 bit ADC @ low & high gain)
Frame rate	~ 40 fps full frame
Data interface	USB 3.1
Power supply	USB 3.1 Typ C, < 4.5 W
Sensor cooling	Passive

Operating Conditions

Temperature (operating)	+10 °C to +40 °C < 80% rel. humidity, non-condensing
Temperature (storage)	-10 °C to +60 °C

Mechanics

Dimensions l x w x h	140 x 70 x 165 mm
Weight	< 1.3 kg
Lens mount	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 application: from customized OEM components for system suppliers up to fully integrated turnkey solutions for the end-user.

Accessories:

- **Different fore optics**
- **Various mounting accessories**
- **Motorized stage for samples**
- **Several software packages can be provided**
- **Travel case**

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