SIMTRUM

BLUEEYE

Scientific
UV Hyperspectral Imaging Camera (220 – 380 nm)

The **BlueEye Scientific** 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 CCD detector and high-end electronics with superior optical design, the **BlueEye Scientific** camera enables exceptional performance for the most demanding applications.

Dedicated software packages for various user requirements are available.

BEST USE OF

- Back-illuminated CCD (full frame architecture)
- 1056 x 1027 px
- Standard C-mount lens
- USB 3.0, GigE interface
- TEC sensor cooling

Features:

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

Technical Specifications:

BlueEye Scientific

Spectrograph

Spectral range	typ. 220 to 380 nm
Dispersion	~0.2 nm / px
Smile	< 160 µm
Keystone	< 20 µm
F/#	2.4
Standard slit-width	30 µm

Electronics

Sensor	Back-illuminated CCD (full frame architecture)
Sensor pixels	1056 x 1027
Active area (spatial x spectral)	typ. 920 x 1027
Pixel width	13 µm x 13 µm
Bit depth	18 bit
Frame rate	~ 5 fps full frame
Data interface	USB 3.0, GigE
Power supply	External power supply
Sensor cooling	TEC -100°C to 20°C (multistage, forced air, liquid cooling optional)

Operating Conditions

Temperature (operating)	0 °C to +35 °C < 80% rel. humidity, non-condensing
Temperature (storage)	0 °C to +35 °C

Mechanics

Dimensions l x w x h	235 x 100 x 150 mm
Weight	< 3.3 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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