

BLUEEYE

UV Hyperspectral Imaging Camera (220 – 380 nm)

Introducing the **BlueEye**, our 'true-UV' pushbroom hyperspectral camera that captures detailed information about the chemical composition and physical properties of the objects being imaged. Its advanced imaging technology is helping researchers and practitioners gain new insights into the world around us.

Combining state-of-the-art reflection grating technology with superior optical design, a sensitive CMOS detector and high-end electronics, the **BlueEye** enables performance for a new level of hyperspectral measurements in the UV wavelength range for well known demands but especially for totally new applications.



- Research:
 - Chemistry, Life Sciences, Material Science,...
- Medical:
 - Surgery, Pathology, Non-invasive Examinations,...
- Industry:
 - Food, Cosmetics, Pharmaceuticals, Technical,...

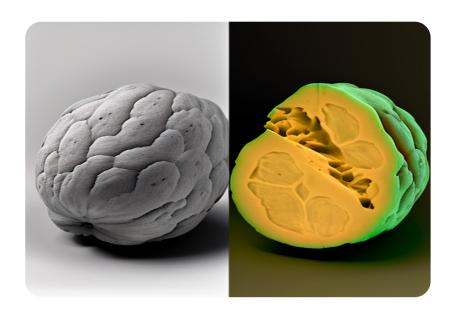




Figure: BlueEye TEC

Features:

- 1500 spectral pixels
- Selectable ROI (region of interest)
- Robust design
- USB standard interface
- Compact and lightweight design



Website



LinkedIn





Technical Specifications:

BlueEye PC BlueEye TEC

Spectrograph

Standard slit width 80 µm (30, 50 and 100 µm available)

Electronics

Sensor back-illuminated CMOS Sensor pixels 2048 x 2048 Active area typ.1845 x 1500 (spatial x spectral) pixels Pixel size 6.5 µm x 6.5 µm Shutter type rolling, global reset 16 bit (2 x 12 bit ADC @ low & high gain) Bit depth ~ 40 fps (full frame) Frame rate Data interface **USB 3.1** USB 3.1 type C USB 3.1 type C Power supply + 24 V DC (external)

Power consumption < 6.0 W < 4.5 W + < 22 W

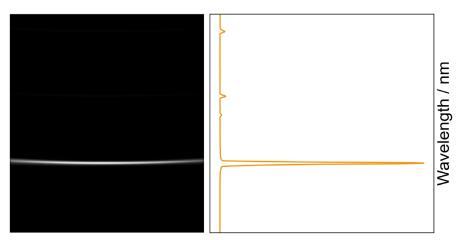
Sensor cooling passive TEC + forced air;
sensor temp.: -25 °C to +20 °C

Operating Conditions

Temperature (operating) +10 °C to +40 °C +10 °C to +40 °C
Temperature (storage) -10 °C to +60 °C -10 °C to +60 °C

Mechanics

Dimensions I x w x h 138 x 65 x 162 mm³ 138 x 87 x 204 mm³ Weight 1.4 kg 1.9 kg
Lens mount standard C-mount standard C-mount



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

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



Figure: BlueEye PC

Accessories:

- Different objective lenses
- Conveyor belt, stepper table or tripod with a rotary stage as bundle solutions
- Software packages for customized applications
- Liquid cooling unit (BlueEye TEC only)

