

ORANGE**EYE** - SCAN

VNIR Hyperspectral Imaging Camera (500 – 950 nm)

The **OrangeEye Scan** is a powerful, compact visible and near-infrared (VNIR) hyperspectral imaging camera that allows the acquisition of spectral data with extremely high spatial resolution. The camera is based on the linescan (pushbroom) imaging technology, but additionally has an internal scanning unit, that allows to acquire hyperspectral images of stationary objects without moving the camera itself. Furthermore, the camera features an integrated broadband LED-lighting for object illumination.

Combining superior optical design with advanced holographic transmission grating technology, sensitive CMOS detector and high-end electronics, the **OrangeEye Scan** camera brings an outstanding performance making it an ideal tool even for the most demanding applications.

A variety of dedicated accessories for the **OrangeEye Scan** ensures seamless integration into any individual application scenario. Depending on the measured object dimensions, various camera lenses (fore optics) can be chosen for optimal image quality. Additional external tungsten halogen or LED lighting provide bright and homogeneous object illumination.

Different mounting possibilities, e.g., on a desk mount arm or via c-mount adapter directly to microscopes ensure easy setup and optimal sample presentation. Dedicated software packages from SDK to fast data collection and evaluation are available for various user requirements.



Features:

- Pushbroom imaging camera with internal scanning unit
- Integrated LED
 illumination
- Transmission grating configuration for superior sensitivity
- High spatial and spectral resolution
- Excellent imaging
 performance

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Technical Specifications:

OrangeEye Scan

Spectrograph

Spectral range Dispersion Spectral resolution Spatial resolution Smile Keystone F-number Slit width typ. 500 nm - 950 nm 93 nm / mm 7.5 nm 960 Pixel 10 nm 5 nm 3 80 μm (others on request)

Electronics

Sensor Pixels in full frame Pixel size Bit depth Data interface / Camera control Power consumption Power supply

Operating Conditions

Temperature (operating) Temperature (storage)

Mechanics

Dimensions I x w x h Weight Lens mount 260 x 166 x 150 mm ca. 2.7 kg Standard C-mount

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

Optionally, the **OrangeEye Scan** is available without internal scanning unit as conventional pushbroom imaging camera.

CMOS

10 bit

USB

15 W

5 V

1280 x 960

0 - 30 °C

-10 - 45 °C

3.75 x 3.75 µm

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-customers.

Accessories:

- Different fore optics: 8 mm, 12,5 mm, 16 mm, 25 mm, 35 mm, 50 mm
- Various mounting accessories: desk mount arm, microscope c-mount adapter, etc.
- Additional modular tungsten halogen or LED lighting
- Multiple software
 packages