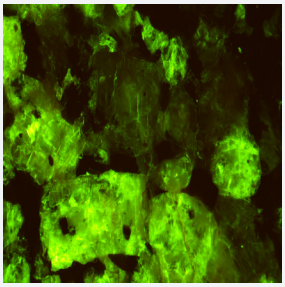
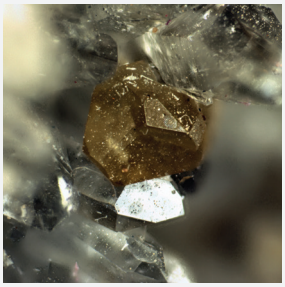
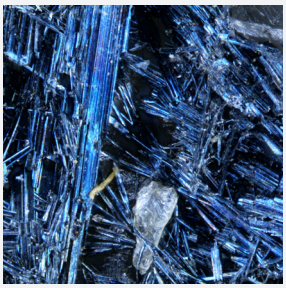
DeltaPix
- Discover the Details

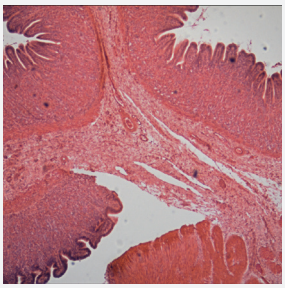
INVENIO 2EIII CAMERA

- High resolution
- Crisp colors
- Ultra sensitive
- High-speed live video
- High-quality Sony sensor









Invenio 2EIII

DeltaPix Invenio 2EIII microscope cameras offer fast and precise high resolution live video stream as well as still images! User-friendly setup for everyday use, with a first in class price/performance ratio.

The Invenio 2EIII camera is especially suited for low light applications, due to its high sensitivity, and applications in which high frame rate is required.

The Invenio EIII cameras are based on a high-quality Sony Exmor™ sensor for excellent image quality, sensitivity, color fidelity, and speed.

High quality, cost effective and flexible

The Invenio EIII microscope camera series has C-mount interface making them easily and cost efficiently fitted on most standard microscopes.

User-friendly Camera

Plug and play – the USB 3.0 interface provides high speed and ease of installation on any computer.
No need for external power supply, because the Invenio EIII Microscope cameras uses the included USB cable for power, control and to data transition.

Typical applications: *✓ Documentation and publishing ✓ Material science ✓ Metrology ✓ Quality control ✓ Dark Field ✓ Bright Field ✓ Histology ✓ Pathology ✓ Semiconductor inspection ✓ Cytology ✓ Biology*

Recommended applications	Invenio 2EIII
Brightfield / Darkfield	★★★★★
DIC	★★★★★
Live cell imaging	★★★★★
Histology/Pathology/ Cytology	★★★★★
Semiconductor inspection	★★★★
Metrology	★★★
Documentation and Archiving	★★★
Moderate light fluorescence	★★★★★
Low light fluorescence	★★★★
Macro Imaging	★★★
GFP, FISH, NIR	★★★★
Luminescence	★★★★
HD Video High Speed	★★★★★

Why choose Invenio 2EIII

Ultra-Low noise images

The Invenio EIII Microscope cameras are built with Sony's newest sensor, type Exmor™ which is a superior sensor type especially for one reason: The Exmor™ sensors digitize the pixels before the column signals are multiplexed, thereby minimizing the noise signal significantly compared to standard CMOS sensors.

Camera construction

There is a huge difference between so called "machine vision cameras" and cameras designed and build for microscopy. In most Machine vison applications, "details" as colors, hot pixels, dust particles, user friendliness and likewise, does not matter much, as it's a machine which are looking at the images/video stream. For a dedicated microscope camera all these details matters a lot. A microscope camera is typically physical larger in order to adapt more heat, keeping the sensor cool. The IR filter is of higher quality, free from small scratches and holes, which could create shadows in the image (DeltaPix inspects all filter and sensors surfaces carefully, a process which can last up to 2 hours. Around 20% of all filters are discarded during this process). Also even extremely small dust particles can create dark shadows in the image of a camera used for microscopy. For this reason, all DeltaPix Microscope cameras are manufactured by DeltaPix in a dust free clean chamber to achieve unmatched clear, sharp and crisp images.

Smear-free images.

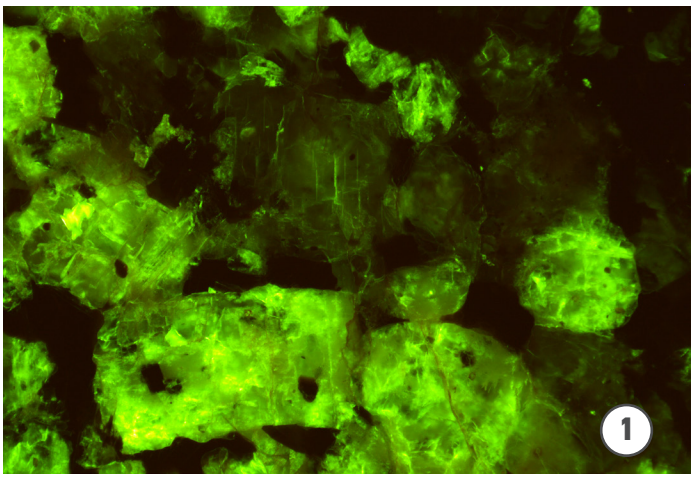
The special construction of the Exmor™ sensor allows the sensor to produce smear-free images like other noname CMOS sensors, but without the limited dynamic range and contrast know from traditional CMOS sensors.

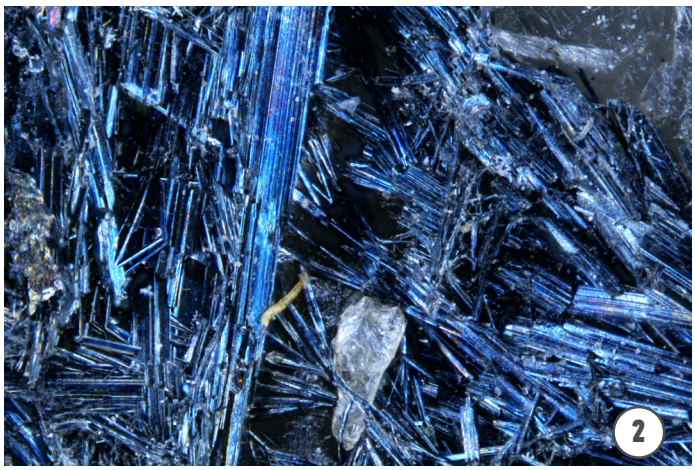
DeltaPix InSight Software

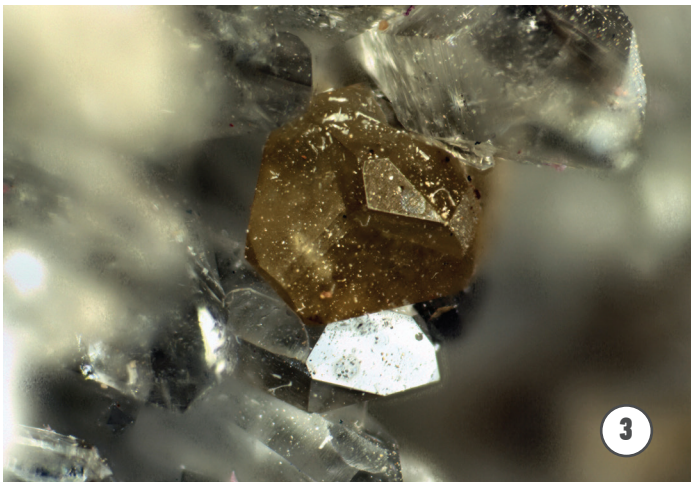
All Invenio EIII cameras Include DeltaPix InSight which is a powerful platform for precise measurements and analyses.

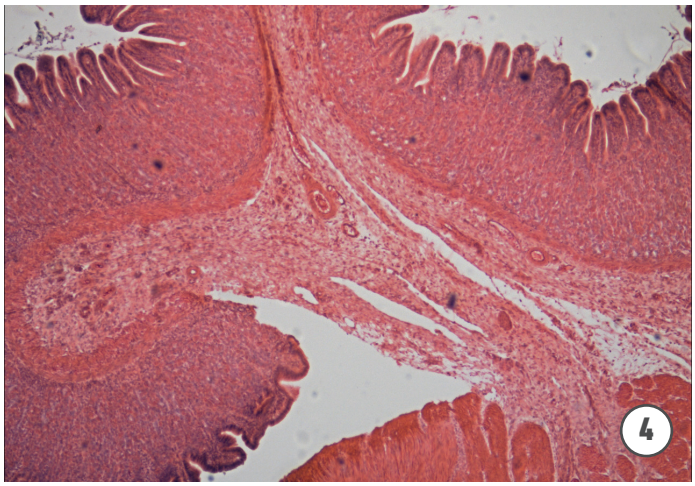
DeltaPix InSight allows expansion with a multitude of modules, for a wide range of advanced applications with an easy-to-use user interface. Available modules for example images stacking, HDR for wide dynamic images, 3D measurements/ 3D topography, Roughness measurement, stitching, Object Counting and much more.

1. Green fluorescence
2. Crystal
3. Monazit
4. Wall-of-Stomach









Features

Invenio 2EIII

	Invenio 2EIII
Live preview resolution	1920 x 1200 @30FPS 960 x 600 @50FPS
Still image resolution	2.3Mpixels (1920x1200) 0.60Mpixels(9606x600)
Sensor size	1/1.9" Sony Exmor 7.20mm x 4.50mm
Pixel size	3.75µm x 3.75µm
Exposure time	0.244 milliseconds – 2000 milliseconds
Gain	1-50
Sensitivity	1120mv with 1/30s
Shutter	Electronic rolling shutter
Exposure mode	Automatic or Manual
Color balance	Automatic, manual or spot with balance
Data interface	USB 3.0
Data format and compression	24-bit uncompressed Tiff, 24bit JPEG compressed and 24-bit loss-less compressed JPEG2000 24bit uncompressed video AVI format.
Minimum PC requirements	Intel I5 (quad core) CPU 4 GB RAM 15 GB free hard disk space USB 3.0 port Windows 7,8 ,10 32bit and 64 bit
Optional	Software Developer Kit (SDK) for developing deep integration with other software applications. Twain Driver

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