

## Invenio 5SIII

Digital camera for microscopes  
USB 3.0  
Windows Vista / XP / 7



### Features:

- Excellent performance from a small and compact digital camera microscopy with fast live images and high-resolution still images
- Ideal camera for documentation and analysis for a wide range of applications
- Streaming live video on computer monitor via high-speed USB 3.0 bus at up to 5 Gbits/s
- Fast streaming colour video images with 20 fps at half resolution
- Perfect image and colour quality with fine details
- Resolution up to 4,920,320 pixels in colour
- Automatic and manual exposure and sensitivity control
- Easy and flexible daily use with dynamic insertion and removal of the camera to PC and notebook via a single standard USB 3.0 high-speed interface
- Small compact camera with optical C-mount for easy attachment to a microscope
- Tripod receptable for mounting to stands for macro photography
- Low power consumption allows silent operation without the need for a noisy fan
- Intuitive user interface with powerful and easy-to-use image capture and processing functions
- Back focus adjustment
- Manufactured in Denmark

### Fast Streaming Video and High-Resolution Still Image

The Invenio 5SIII, 5 Mega Pixels CMOS camera is designed to meet the demands of various applications in life- and material science. It offers: - High speed video streaming to the computer monitor

### Easy-to-use

Invenio 5SIII is a compact digital camera with a standard C-mount interface for universal use and flexible attachment to microscopes.

Installation of the electronic connection is very simple through connecting a single standard USB 2.0 cable between the camera and the computer. Invenio 5SIII uses the USB 2.0 cable for power, control information and to transmit data.

### Fast Video

The use of the 480 Mbps high-speed architecture of the USB 2.0 international standard has allowed the Invenio 5SIII to deliver very fast streaming colour video in high resolution on the monitor of the connected computer.

With high frame rate the microscopy image appears on the computer screen without delay. The steady live image gives higher user comfort and productivity when focusing and interactively optimizing the image.

### Direct Digitalization

The digitalization of the image signal direct at the sensor allows high transfer speed and reliable data communication with no loss of information or reduction in image quality.

### Comfortable Operation

The powerful software included with the camera provides a wide range of image capture and image processing functions. Easy handling and a user-friendly application play an important role in the design of the product, making sure that both first-time users and experienced, creative users can take full advantage of digital imaging.

The Invenio 5SIII is powerful, compact, easy to use and is the ideal camera for professionals in the fields of industry, research, medicine and science, furthermore, in applications where high sensitivity and fast video streaming, and video capture is important.

In relation to video speed, image quality and high sensitivity, the Invenio 5SIII demonstrates its superiority.



## Invenio 5SIII Specifications

### Imager

Effective size:	1/2.5" format CMOS 5.7 mm x 4.28 mm
Colour filter:	Red, green and blue in Bayer pattern
Effective pixels:	2592 x 1944 pixels (5 million)
Pixel size:	2.2 x 2.2 microns
Dynamic range:	67 dB
Signal to noise:	41 dB / 52dB in binmode
Dark Current noise:	20 electrons/pixel/second 0.05 milliseconds to
Exposure time:	2 seconds
Sensitivity:	1.76 V/Lux-s
Binning:	1 x 1, 2 x 2, 4 x 4
Exposure sensitivity:	Adjustable from 1 to 16 times
Exposure mode:	Automatic, manual or converging
Colour balance:	Automatic, manual or spot white balance
Shutter:	Electronic rolling shutter

### Digital Still Image

Single exposure:	2560 x 1922 pixels (5 million)
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### Data Format & Compression

Digital output:	24 bit uncompressed TIFF-RGB (8 bits per colour)
	24 bit loss-less compressed JPEG2000 (8 bits per colour)
	24 bit JPEG compressed (8 bits per colour)
	24 bit uncompressed DICOM (8 bits per colour)
	24 bit uncompressed video in AVI format (8 bits per colour)

### Computer & Software

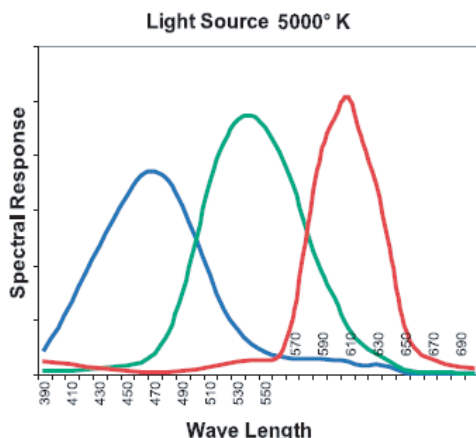
Data interface:	High-speed USB 3.0 architecture
Cable:	Standard USB 3.0 cable
Power:	USB
Application interface:	Intuitive, easy-to-use user application

### Operational Requirements

Temperature:	0°C to +50°C
Humidity:	5% to 95% RH (non-condensing)

### Physical Data

Optical mount:	Standard C-mount
Mechanical mount:	Tripod receptable for macro photography
Enclosure:	Blue/grey Aluminium with tri-pod mount
Height:	38 mm
Width:	68 mm
Depth:	68 mm
Weight:	270 g
Compliance:	CE

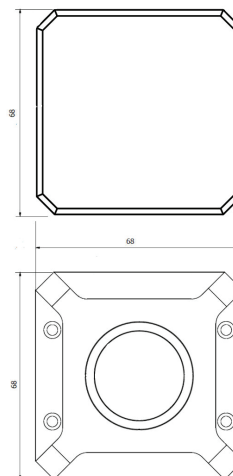


### Video Resolution:

2560 x 1922 pixels  
(More than 14 fps in full resolution)  
(39 fps with 1280 x 960 pixels)  
(101 fps with 640 x 480 pixels)  
ROI can be freely selected

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### Minimum Computer Platform

1 GB RAM  
15 GB free harddisk space  
USB 3.0 port  
Windows XP, Vista, 7, 32 and 64 bit

### Product Includes:

- Invenio 5SIII digital camera for USB 3.0
- 8GB USB Memory stick with "InSight LE". Free upgrade from Website
- USB 3.0 cable

### Optional:

Software Developer Kit (SDK) for developing deep intergration with other software applications

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