



## Features:

- Excellent performance from a small and compact digital microscopy camera with fast live images and high-resolution still image
- Ideal camera for documentation and analysis for a wide range of applications
- Streaming live video on computer monitor via high-speed USB 2.0 bus at 480 Mbits/s
- Fast streaming colour video images with 30 fps at half resolution
- Perfect image and colour quality with fine details
- Resolution up to 3,145,728 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 2.0 high-speed interface
- Small compact camera with optical C-mount for easy attachment to a microscope
- Tripod receivable 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 3SII, 3 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 3SII 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 3SII uses the USB 2.0 cable for power, control information and to transmit data.

### Fast Video

The use of the 480 Mbits/s high-speed architecture of the USB 2.0 international standard has allowed the Invenio 3SII 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.

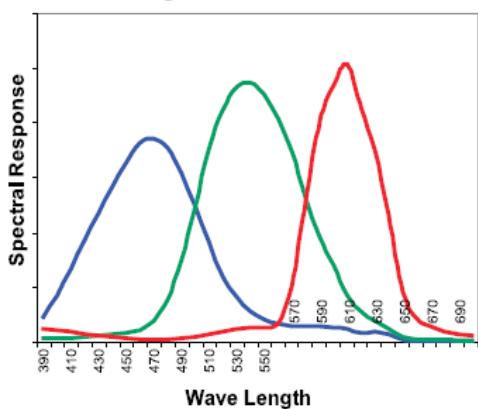
The Invenio 3SII is powerfull, compact, easy to use and is the ideal camera for professionals in the fields of industry, research, medicine and science, furthermore, in applications where high sensitivity and fast video streaming, and video capture is important.

In relation to video speed, image quality and high sensitivity, the Invenio 3SII demonstrates it's superiority.

## Invenio 3SII Specifications

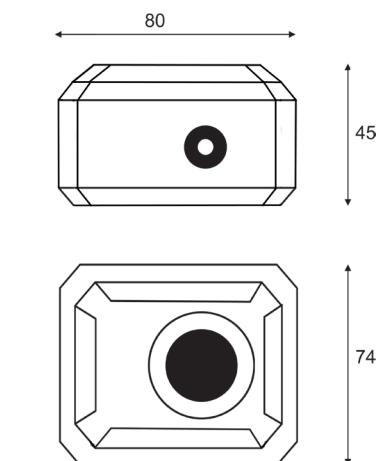
Imager		Digital Still Image	Operational Requirements	
Effective size:	1/2" format CMOS 6.6 mm x 4.9 mm	Single exposure: 2048 x 1536 pixels (3.1 million)	Temperature:	0°C to +50°C
Colour filter:	Red, green and blue in Bayer pattern	<b>Data Format &amp; Compression</b>	Humidity:	5% to 95% RH (non-condensing)
Effective pixels:	2048 x 1536 pixels (3.1 million)	Digital output: 24 bit uncompressed TIFF-RGB (8 bits per colour)	<b>Physical Data</b>	Optical mount: Standard C-mount
Pixel size:	3.2 x 3.2 microns	24 bit loss-less compressed JPEG2000 (8 bits per colour)	Mechanical mount:	Tripod receivable for macro photography
Dynamic range:	>48 dB	24 bit JPEG compressed (8 bits per colour)	Enclosure:	Blue/grey Aluminium with tri-pod mount
Signal to noise:	>48 dB	24 bit uncompressed DICOM (8 bits per colour)	Height:	45
Dark Current noise:	20 electrons/pixel/second	24 bit uncompressed video in AVI format (8 bits per colour)	Width:	80
Exposure time:	0.2 milliseconds to 5000 milliseconds		Depth:	75
Sensitivity:	ISO 80 to 1200/1V/Lux-S		Weight:	360g
Binning:	NO	<b>Computer &amp; Software</b>	Compliance:	CE
Exposure sensitivity:	Adjustable from 1 to 16 times	Data interface: 480 Mb/s high-speed USB 2.0 architecture		
Exposure mode:	Automatic, manual or converging	Cable: Standard USB 2.0 cable with series "B" connector		
Colour balance:	Automatic, manual or spot white balance	Power: USB		
Shutter:	Electronic rolling shutter	Application interface: Intuitive, easy-to-use user application		

Light Source 5000° K



Response shown with IR-filter.

Video Resolution: 2048 x 1536 pixels  
(more than 12 fps, full resolution)  
ROI can be freely selected



### Minimum Computer Platform

1 GB RAM  
15 GB free harddisk space  
USB 2.0 port  
Windows XP, Vista, 7, 32 and 64 bit

### Product Includes:

- Invenio 3SII digital camera for USB 2.0
- CD-ROM with
  - Stand-alone user application
  - Documentation
- USB 2.0 cable (2.0m)

### Optional:

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

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