



Invenio 2EIII

2.3 Megapixel Camera

Sony Exmor™ sensor

USB 3.0

Features:

- 2.3 MPixels still image and video
- High speed video at up to 45 FPS
- Very high sensitivity and ultra low noise
- 1/1.9" Sony Exmor™ Back illuminated sensor
- Binning x2 with 4x increased sensitivity.
- Fast subsampled live video in combination with full resolution still image capture.
- 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 receptacle for mounting to stands for macro photography
- Automatic and manual exposure and sensitivity control
- Back focus adjustment
- DeltaPix InSight LE Expanded
- Free software upgrade (2 years guaranteed)
- 2 Years warranty
- Manufactured in Denmark

Invenio 2EIII

The Invenio 2EIII ,2.3 Mega Pixel camera, is designed to excel in image quality, sensitivity, colour fidelity and speed. The Invenio 2EIII is ideal for various applications in life- and material science dark field, bright field biology and much more.

DeltaPix InSight software

Every Invenio camera includes DeltaPix InSight LE software, a powerful software for image processing, analysis, measurement and much more. DeltaPix software is based on many years of experience, which shows up in the small details when working with the camera and software in the "real world".

User-friendly Camera

Plug and play – the USB 3.0 interface for ease of installation on any computer and high speed. No need for external power supply, because the Invenio 2EIII Microscope camera uses the included USB cable for power, control and to transmit data.

Support and service

Deltapix cameras are supported by an experienced team of experts with more than 25 years of experience in the field of camera and imaging. Our goal is to provide customers with the best service and guide them to the right camera for their application. Normally support requests are answered within a few hours, and if needed, Deltapix can do remote on line support and setup.

Typical applications:

- Live cell imaging and video
- Material science
- FISH, GFP, NIR
- Quality control
- Dark Field
- Bright Field
- Histology
- Pathology
- DIC
- Cytology
- Biology

Invenio 2EIII Specifications

Imager

Effective size:	1/1.9" format Exmor 7.20 mm x 4.5 mm
Colour filter:	Red, green & blue in Bayer pattern
Effective pixels:	1920 x 1200 pixels (2.3 million)
Pixel size:	2.75 x 2.75 microns
Dynamic range:	70 dB
Signal to noise:	-
Exposure time:	0.244 milliseconds to 2000 milliseconds
Sensitivity:	1120mv with 1/30s
Binning:	-
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: 1920 x 1200 pixels
(2.3 million)

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
video in AVI format
(8 bits per colour)

Computer & Software

Data interface: High-speed USB 3.0
architecture

Cable: 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 tripod mount

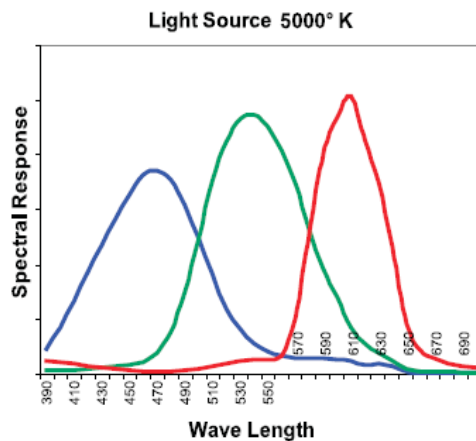
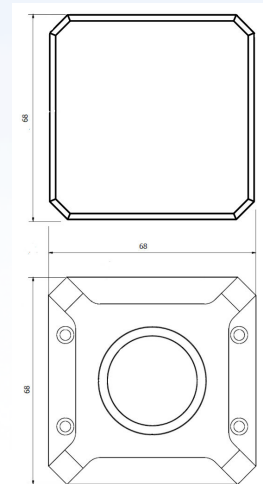
Height: 38 mm

Width: 68 mm

Depth: 68 mm

Weight: 280 g

Compliance: CE



Response shown with IR-filter.

Video Resolution: 1920 x 1200 pixels
Up to 45 fps

Minimum Computer Platform

Intel I5 (quad core) CPU
4 GB RAM
15 GB free harddisk space
USB 3.0 port
Windows 7,8 ,10 32 and 64 bit

Product Includes:

- Invenio 2EIII USB 3.0 camera
- 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