

Digital camera for microscopes  
USB 2.0  
Windows Visat / XP / 7



## Features:

- Excellent performance of a small and compact digital camera for microscopy with exceptional fast live images and high-resolution still image
- Ideal camera for documentation and analyses for an exceptionally wide-ranging spectrum of applications
- Streaming live video on computer monitor through the high-speed USB 2.0 bus at 480 Mbits/s
- Fast streaming colour video images in high resolution with 96 fps at 640 x 480 pixels resolution, 20 fps at 1600x1200
- Selectable video resolution in 4 steps from 1,600 x 1,200 pixels
- Perfect image and colour quality with the good detail
- Resolution up to 1.920.000 pixels in colour
- Selectable resolution between 307.000, 480.000, 786.000, 1.310.000 and 1.920.000pixels in colour
- Automatic and manual exposure and sensitivity control
- Superior anti-blooming (overexposure) behaviour
- Easy and flexible daily use with dynamic insertion and removal of the camera to PC and notebook through a single standard USB 2.0 high-speed interface
- Small compact microscopy camera with optical C-mount for easy attachment to a microscope
- Tripod receptable for mounting on stands for macro photography
- Silent operation without noisy fan due to very low power consumption
- Intuitive user interface with powerful and easy-to-use image capture and processing functions
- Standard TWAIN driver for integration to 3rd party imaging application and software
- Standard DirectX driver for integration to 3rd party video application and software
- Support for the Dicom file standard

## Fast Streaming Video and High-Resolution Still Image

The DP 200™ is designed for various demands of digital microscopy for analysis and documentation purposes. It offers exceptional fast streaming video at high-resolution on the computer monitor together with still images of high resolution.

### Easy-to-use

The DP 200 is a small and compact digital camera with a standard C-mount interface for universal use and flexible attachment to microscopes.

Installation of the electronic connection is also very simple through connecting a single standard USB 2.0 cable between the camera and the computer. The DP 200 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 DP 200 to deliver fast streaming colour video in high-resolution on the monitor of the connected computer.

With a frame rate of up to 96 frames per second the microscopy image appears on the computer screen without delay. The steady, full-screen live image gives higher user comfort and productivity when focusing and interactively optimizing the image.

### Direct Digitalization

In relation to colour quality and precise details the DP 200 demonstrates its superiority. 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. Using this technology, the live image is not only noise-free but has also significantly more details than an image generated by a video camera.

### 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.

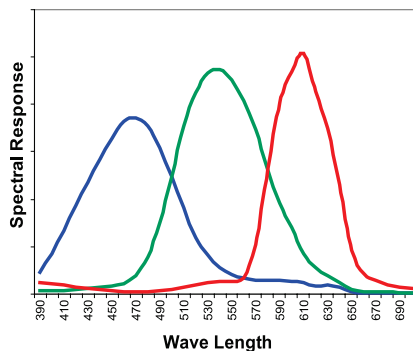
The DP200.I can also be controlled from the comprehensive new "InSight" software package, with an endless number of easy to use features. The combination of DP200.I and the InSight software, opens new opportunities for advanced features like motor control, extended focus, auto counting, segmenting, and more, without having to buy big expensive difficult to use software packages.

## DP 200.I specifications:

### Imager

Effective size:	1/2" format 6.7 mm x 5.0 mm
Colour filter:	Red, Green, and Blue in Bayer pattern
Effective pixels:	1,600 x 1,200 pixels (2 million)
Pixel size:	4.2 x 4.2 microns
Dynamic range:	>60 dB
Dark current noise:	20 electrons/pixel/ second
Exposure time:	0.1 milliseconds to 3 seconds
Sensitivity:	ISO 200 to 600
Binning:	Red, Green, Blue and colour
Exposure sensitivity:	Adjustable from 1 times to 3.7 times
Exposure mode:	Automatic, manual or converging
Colour balance:	Automatic, manual or spot white balance
Shutter:	Electronic rolling shutter

Light Source 5,000° K



### Digital video

Resolution:	1,600 x 1200 pixels 20 frames per second
	1,280 x 1024 pixels 29 frames per second
	800 x 600 pixels 56 frames per second
	640 x 480 pixels 96 frames per second

### Digital still image

Single exposure:	1,600 x 1,200 pixels (2 million pixels)
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### Data format & compression

Digital output:	24 bit uncompressed TIFF-RGB (8 bits per colour)
	30 bit uncompressed TIFF-RGB (10 bits per colour)
	24 bit loss-less compressed JPEG2000 (8 bits per colour)
	24 bit compressed JPEG (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

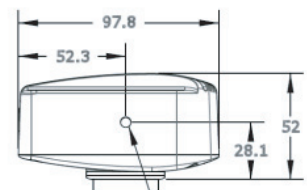
Data interface:	480 Mb/s high-speed USB 2.0 architecture
Cable:	Standard USB 2.0 cable with series "B" connector
Power:	Direct powered from the USB 2.0 bus
Application interface:	Intuitive, easy-to-use user application
Application support:	TWAIN driver for integration to 3rd party imaging applications  DirectX driver for integration to 3rd party video applications

### Operational requirements

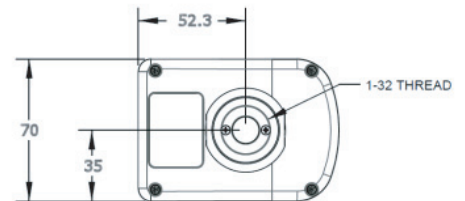
Temperature:	0° C to +40° C
Humidity:	15 to 80 % RH (non-condensing)

### Physical data

Optical mount:	Standard C-mount
Mechanical mount:	Tripod receptable for macro photography
Housing:	Aluminium with cooling fins
Height:	52 mm
Width:	70 mm
Depth:	98 mm
Weight:	335 g
Compliance:	CE, FCC Class B



1/4-20 TRIPOD MOUNT (BOTH SIDES)



### Minimum computer platform

1 GB RAM  
15 GB free harddisk space  
USB 2.0 Port  
Windows XP, Vista, 7

### Product includes:

- DP 200.I digital camera for USB 2.0
- CD-ROM with
  - Stand-alone user application
  - TWAIN driver
  - DirectX driver
  - Documentation
- USB 2.0 cable (2.0 m)

### Optional:

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

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