



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 with 15 fps at full resolution and higher fps with binning and ROI
- Snapshot capability for acquiring fluorescence images with long exposure
- Perfect image and colour quality with fine detail
- Resolution up to 1.400.000 pixels in colour
- Selectable resolution between 307.000, 480.000, 786.000 and 1.400.000 pixels 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 large CCD Cooled sensor format 2/3" of the DP 253 and the large pixel size 6.45x6.45 micro meter makes this camera high sensitive and can be used for more demanding fluorescence applications. DP 253 offers high resolution still images and exceptional fast streaming video.

Easy-to-use

The DP 253 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 253 uses the USB 2.0 cable for 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 253 to deliver fast streaming colour video in high-resolution on the monitor of the connected computer.

With binning & ROI higher frame rates per seconds are available and the microscopy images appear 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 253 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.

A standard TWAIN interface provides support for a wide range of 3rd party solutions for image capture and data integration with image management, editing and analysis solutions.

The DP 253 digital camera is powerful, compact, easy-to-use and is the ideal first camera for professionals in the fields of industry, research, medicine and natural science.

DP 253 specifications:

Imager

Effective size:	2/3" format CCD Cooled
Colour filter:	Red, Green, and Blue in Bayer pattern
Effective pixels:	1,392 x 1,040 pixels (1.4 million)
Pixel size:	6.45 x 6.45 microns
Full well capacity:	>18,000 electrons
Dynamic range:	>66 dB
Read noise:	8 e- rms
Dark Current e-/s:	0.15 electron / Pixel / s when cooled
Exposure time:	0.01 milliseconds to 60 seconds
Cooling type:	Hermetically sealed and dry gas filled Peltier cooling to 25 degrees Celsius below ambient
Sensitivity:	ISO 200 to 7000
Binning:	Red, Green, Blue and colour
Exposure sensitivity:	Adjustable from 1 times to 23 times
Exposure mode:	Automatic, manual or converging
Colour balance:	Automatic, manual or spot white balance
Shutter:	Electronic global shutter

Digital still image

Single exposure:	1,392 x 1,040 pixels (1.4 million pixels) 24 bit RGB: 3.8 MB 36 bit RGB: 7.6 MB
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Data format & compression

Digital output:	36 bit uncompressed TIFF-RGB (8 bits per colour)
	36 bit uncompressed TIFF-RGB (10 bits per colour)
	36 bit loss-less compressed JPEG2000 (8 bits per colour)
	36 bit compressed JPEG (8 bits per colour)
	36 bit uncompressed DICOM (8 bits per colour)
	36 bit uncompressed video in AVI format (8 bits per colour)

Computer & software

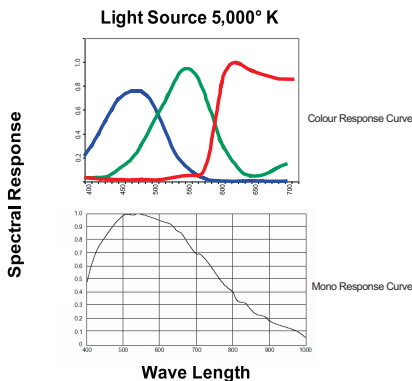
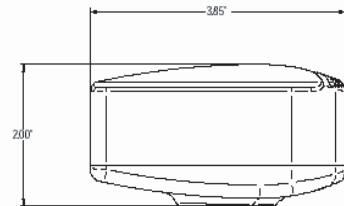
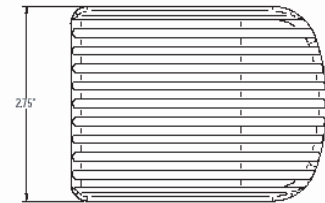
Data interface:	480 Mb/s high-speed USB 2.0 architecture
Cable:	Standard USB 2.0 cable with series "B" connector
Power:	External 5V.
Application interface:	Intuitive, easy-to-use user application
Application support:	TWAIN driver for integration to 3rd party imaging applications
	DirectX driver for integration to 3rd party video applications

Operational requirements

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

Physical data

Optical mount:	Standard C-mount
Mechanical mount:	Tripod receptable for macro photography
Housing:	Aluminium with cooling fins
Height:	70 mm
Width:	54 mm
Depth:	98 mm
Weight:	425 g
Compliance:	CE, FCC Class B



Digital video

Resolution:	1,392 x 1,040 pixels (more than 26 fps)
	1,280 x 1,024 pixels (more than 15 fps)
	1,024 x 768 pixels (more than 20 fps)
	800 x 600 pixels (more than 24 fps)
	640 x 480 pixels (more than 28 fps)

Minimum computer platform

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

Product includes:

- DP 253 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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