



## Fast Streaming Video and High-Resolution Still Image

The DP 450™ 2 Mega Pixels CCD digital camera is designed to match various demands of applications, life- and material science working under low light conditions. It offers exceptional fast streaming video at high resolution on the computer monitor.

### Easy-to-use

The DP 450 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 450 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 450 to deliver 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, 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 450 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 450 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.

### 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 12 fps at 1616 x 1216 and higher fps with binning and ROI
- Snapshot capability for acquiring low noise fluorescence images with long exposure
- Perfect image and colour quality with fine details
- Resolution up to 2.000.000 pixels in colour
- Selectable resolution between 307.000, 480.000, 786.000, 1.300.000 and 2.000.000 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