DIGITAL CAMERA
DP25
5 million pixel resolution

HIGH PERFORMANCE 5-MEGAPIXEL COLOR CAMERA
FOR YOUR DAILY LIGHT MICROSCOPY WORK
The Olympus DP25 is an easy-to-operate digital color camera system for a broad range of scientific microscopy image acquisition uses, mainly focused on image documentation, reporting and analysis. Its high resolution, fast frame rates and excellent color fidelity all guarantee an efficient microscopy workday.

**Perfect images**
Whether using the automatic exposure routines, or manually setting various camera parameters (e.g. brightness, contrast, gamma), you can experience optimal image quality during live viewing. All acquired images are calibrated automatically, and may be prepared as desired with post-acquisition geometry, enhancement and filtering functions.

**Easy file management**
Descriptive data (e.g. camera parameters, magnification) are attached to each captured image automatically. User defined sample or experiment name and comments may be added. Automatic saving in a preselected folder is supported.
**Top-of-the-line technical properties**
The Olympus DP25 acquires images at a maximum resolution of 2560 x 1920 pixels. To achieve higher sensitivity or to increase the frame rates, true-color binning modes from 2 x 2 to 4 x 4 are supported. The high dynamic range of the DP25 ensures images of outstanding quality.

**High frame rates**
The DP25 provides several resolutions using various read-out modes. With a video-like resolution it delivers 30 frames per second, whereas its progressive mode with a resolution of 1280 x 960 pixels is ideal for searching and focusing. At its full resolution – 2560 x 1920 pixels – the DP25 still offers an impressive 8 frames per second.

**Good color reproduction**
One of the DP25’s remarkable attributes is its real-time true color reproduction to ensure highest color fidelity. This guarantees superb image quality with natural colors as seen through the microscope eyepieces.

**Easy handling**
The standard C-mount makes installation easy for all microscopes. FireWire™ technology guarantees that the DP25 can be easily installed on any PC, or any laptop equipped with a FireWire™ port.

**Annotations and scale bar**
A reference scale bar can be displayed as a transparent layer over the image data, and burned onto the image if desired. A complete set of image data can also be displayed. An extensive range of text and graphic functions is available for non-destructive image labeling.

**Interactive Measurements**
Several functions for measuring live or still images, including point measurements, arbitrary line, polygon, circle and ellipse or rectangle measurements, are integrated. For further processing the measurements can be exported to MS Excel with the simple click of a mouse.

**Simple time-lapse function**
The software permits image series acquisition over a user-defined period with user-defined intervals. These series can be converted to movies (avi format), opened, played back and single frames extracted.
### DP25 Specifications

#### Camera
- **Type**: Single chip color CCD camera
- **Model**: Sony ICX282AQF Interline CCD image sensor
- **Imaging Sensor**: 2/3 inch, 9.74 mm x 7.96 mm
- **Pixel size**: 3.4 µm x 3.4 µm
- **Color filter**: RGB Bayer primary color filter
- **Scanning modes**: Progressive, Interlaced

#### Effective image resolution
- 2560 x 1920 pixel, 1280 x 960 pixel, 854 x 640 pixel, 640 x 480 pixel

#### Exposure Mode
- Auto, Manual

#### Exposure time
- 1 ms - 16 s

#### Display frame rates
- Binning 1 x 1 (Full resolution): 8.4 fps, Binning 2 x 2: 8.4 fps, Binning 4 x 4: 2.2 fps

#### White balance
- Mode: Auto, Manual

#### Partial read out
- Supported

#### Sharpness filter
- Supported

#### Interface
- **PC Interface**: FireWire™ (IEEE 1394a)

#### Operating system
- Microsoft Windows XP SP2

#### Camera System
- Camera head, interface cable

#### Dimension & weight
- **Camera head**: 86 mm x 48 mm, approx. 350 g
- **Interface cable**: approx. 4.5 m

#### Online features
- Online shading correction
- Pseudo coloring of live image
- Live image adjustments (contrast, brightness, ...)
- Image on complete screen

#### System Requirements for DP25
- **CPU**: Pentium 4, 2.4 GHz or higher, Pentium M, 1.4 GHz or higher
- **Hard disk storage**: Required 5 GB or more, Recommended 20 GB
- **Memory**: Required 512 MB or more, Recommended 1024 MB
- **Operating system**: Microsoft Windows XP SP2

### DP2-BSW Specifications

#### Hardware support
- DP2, DP25
- USB & multiple screen support

#### Image acquisition
- Live, snapshot, simple time lapse recording
- Auto calibration of magnification
- User defined image naming
- Automatic saving descriptive data to each image

#### Image handling
- **Image formats**: TIF, BMP, JPEG, JPEG2000, Photoshop, AVI
- Extract and separate multi-dimensional image data
- Annotations (drawing elements, scale bar, info stamp)
- Memory management for large image handling
- Synchronize multiple images

#### Image processing
- **Online shading correction**: Interactive measurements (Point, arbitrary line, polyline...)
- **Image geometry**: Resize, rotate, mirror...
- **Image enhancement**: (colors, brightness, contrast, gamma)
- **Post acquisition shading correction**: (flat field and background)
- **Image editing**: Smoothing & sharpening filters

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**System chart**

**Dimensions**

- **Weight**: Approximately 350 g

**DP25 digital camera components**

The DP25 digital camera system includes: camera head, PCI FireWire™ card, FireWire™ cable, and CD-ROM (TWAIN driver)

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Specifications are subject to change without any obligation on the part of the manufacturer.