Digital Cameras CMOS

The ultra-compact **dhs-MicroCam 1.3 CMOS** digital camera is your key to digital microscopic photography – at a price that would normally only be enough for an analogue image source.

This camera is extremely versatile and can thus be used for microscopic photography, macroscopic photography and more. It can be adapted for light microscopes and stereo microscopes by means of the standard-compliant C-mount thread. Using macro copy stands (e.g. with a macro zoom lens) is no problem with the optional adapter. The image resolution can be set to three different levels by the user, up to a maximum of 1.3 megapixels.

However, the **dhs-MicroCam 3.1 CMOS** uses a chip which allows resolutions of up to 3.1 Mpix (2,048 x 1,536). The **dhs-MicroCam 5.0 CMOS** extends the portfolio, offering resolutions of up to 2,560 x 1,920 pixels at an unbeatable price! This enables even greater detail and precision in the visualisation of your specimens.

As the signals from all cameras are transferred via USB 2.0, long waiting times are a thing of the past. The very high image transfer speeds are perfect for anyone who appreciates being able to work ergonomically – especially at microscopes! Each camera has a 1/2“ CMOS sensor. Due to a very sensitive chip, they can also be used for low-light contrasting at the microscope and the otherwise usual CMOS restrictions do not apply.

The connection to a PC or notebook is realised with a single cable: image transfer and power supply in one! And in order to guarantee a secure connection, a 3-metre USB cable with a screw-on micro-D-sub connector is provided.

The software fully integrates all camera types into the **dhs Image Data Base**. This means that many live image functions are at your disposal (e.g. live image comparison, overlay display, timer-controlled interval shooting and more). For these cameras, dhs offers specially developed Image Acquisition software that makes it child‘s play to adjust

a wide range of parameters: exposure time (including automatic exposure tracking), white balance (including continuous white balance), brightness, gamma, contrast, colour saturation, flip, sharpen, artefact filter, partial sensor readout (ROI) and more. All of these settings can be saved in „profiles“ for fast access.

Technical data:

- Max. resolution 1,280 x 1,024 pixels (MC 1.3 CMOS)
  resp. 2,048 x 1,536 pixels (MC 3.1 CMOS)
  resp. 2,560 x 1,920 pixels (MC 5.0 CMOS)
- Large 1/2“ CMOS sensor (progressive scan)
- MC 1.3 optionally available in b&w
- 8-bit colour depth (10-bit internally)
- Display of crosshairs and overlays in live image (via dhs Image Acquisition functions)
- C-mount lenses with macro copy stand adapter as optional accessories

InfoBox

- *Professional microscope cameras with a range of different resolutions*
- *Large and fast live image via direct interfacing with the **dhs Image Data Base***
- *C-mount thread enables connection to standard microscopes, macroscopes, endoscopes and lenses*
- *PC connection via fast USB 2.0 interface, 3-metre cable included*
- *Compact dimensions: 34 x 32 x 27.4 mm*