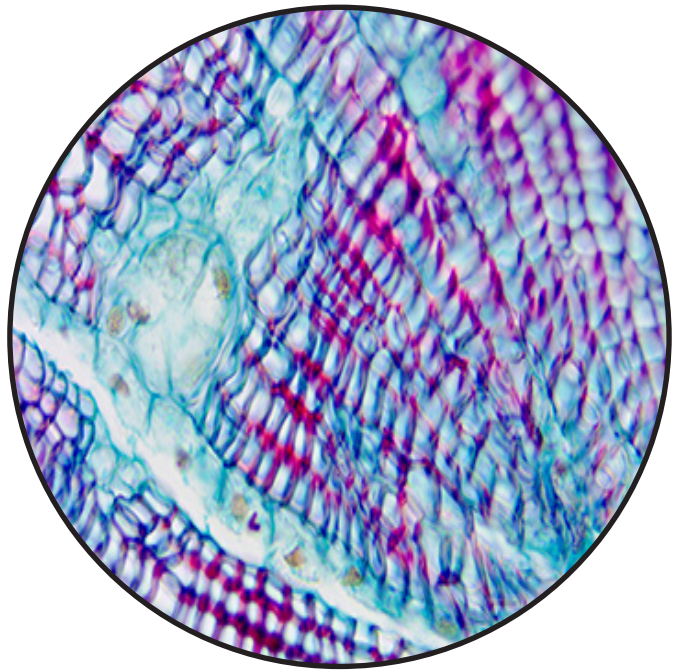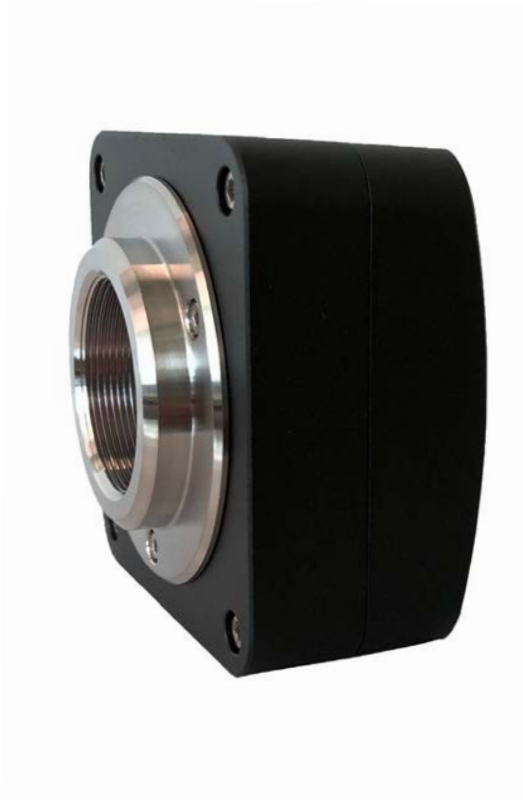# RICHTER OPTICA

Documentation
Microscope Camera
DCM5.3 - 5.1 Megapixels

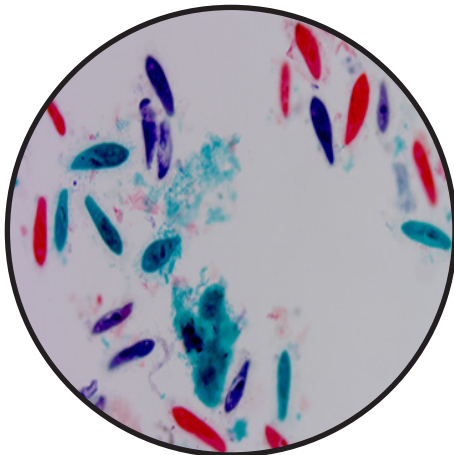# DCM5.3 Camera Features

Documentation Camera

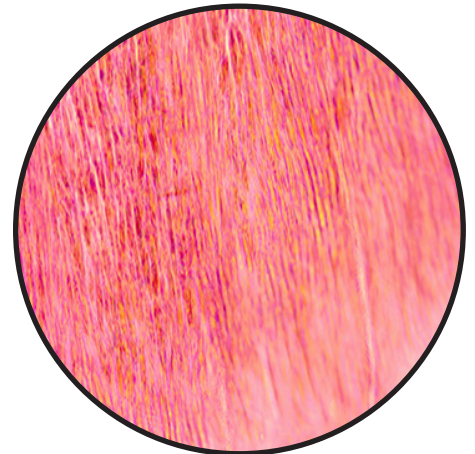This microscope camera was designed for basic image capture, measurement and documentation purposes.

- 5.1 Megapixels
- USB 3.0 Output
- Includes software
- View live images in software
- Capture & Save Images
- Make measurements

Applications

- Inspection
- Quality Control
- Basic Documentation
- Image Capture
- Measurement
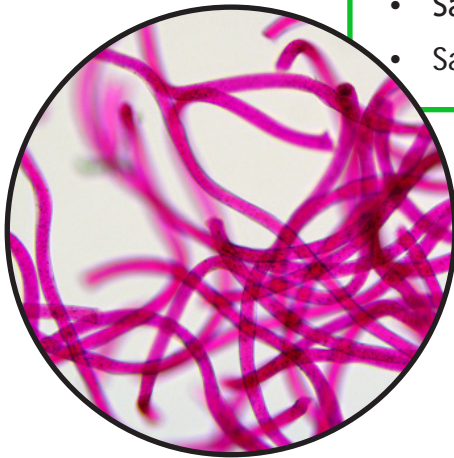
Paramecium

Fish Squama

RICHTER OPTICA

DCM5.3 Software Features

Image Capture

Capture both still images and motion video.

- **Save images as .tiff, .jpg, .bmp, .png, .dcm, .pcx, .tga.**
- Save videos as .wmv, .avi, .h264 & .h265 (.mpeg)

Nylon Fibers

Calibration

Accurate calibration should be performed on each objective lens with a stage micrometer. If using a stereo microscope click stops are the only way to make accurate, repeatable measurements. Available calibration measurement options include:

- Inches (in)
- Millimeters (mm)
- Centimeters (cm)
- Microns (µm)
- Nanometers (nm)
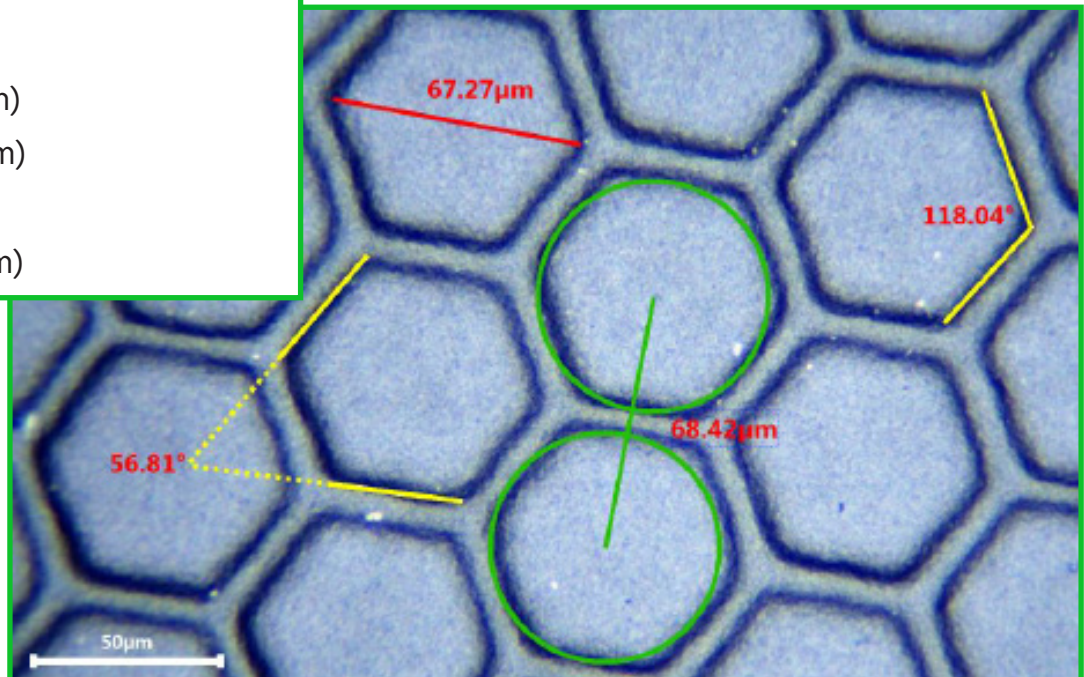
Basic Software Settings

Some of the basic software features include:

- Exposure, Gain, White Balance
- Saturation, Brightness, Contrast, Gamma
- Color Adjustment
- **Power Frequency (anti-flicker)**
- Frame Rate Setting
- Image Rotation
- **Darkfield Correction**
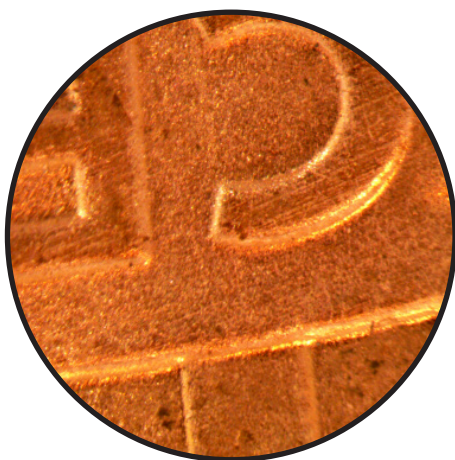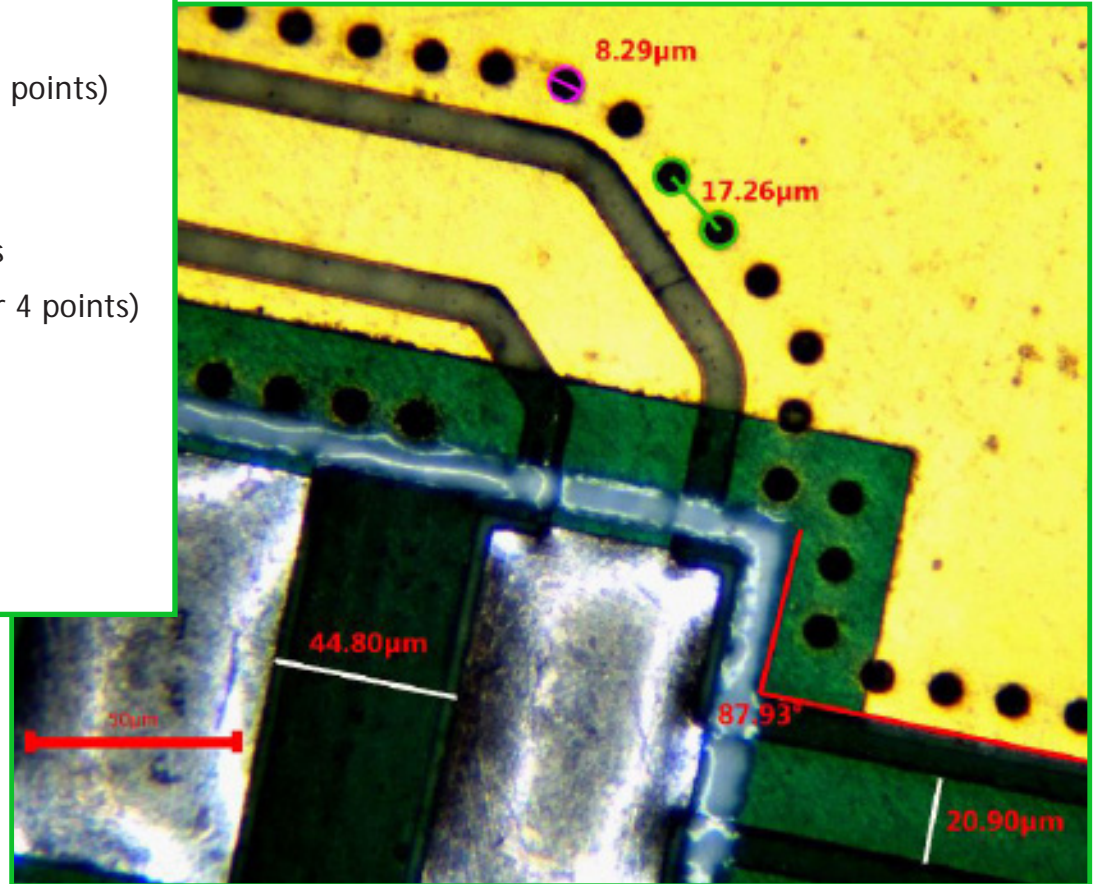- Image Capture
- Video Capture

DCM5.3 Software Features

Measurement Options

Choose from a large variety of measurement options and tools:

- Angle (3 or 4 points)
- Line
- Parallel
- Two Parallels
- Vertical (3 or 4 points)
- Rectangle
- Ellipse
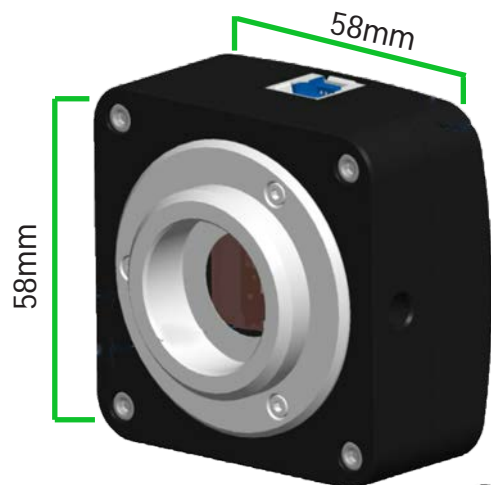- Circle
- Annulus
- Arc

Penny, 30x

Penny, 10x

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DCM5.3 Camera Specifications

Image Sensor	1/2.8″ (5.18 x 3.89) Sony Starvis IMX335 CMOS, USB 3.0
Pixel Size	2.0 x 2.0µm
Resolution	2592 x 1944
Frame Rates	6.8fps @ 2592 x 1944
	20fps @ 259 x 1944
	40fps @ 1296 x 972
Binning	1x1, 2x2, 4x4
Exposure	0.1ms~2000s
Output	USB 3.0
Spectral Range	380-650nm (with IR-filter)
Power	DC 5V or PC USB Port
USB Controls	White Balance, Auto White Balance, Capture still images or motion video with software, USB works with full use of software on PC or laptop.
Software Features	Image capture, still or motion video.
	Adjustment of white balance, color, frame rate, exposure, gain, flip, sampling, bit depth, ROI, histogram, darkfield correction.
	Annotation
	Measurement and calibration: angles, lines, diameter, polygon, etc.
Operating System for Software (USB)	Windows XP, Vista, 7, 8, 10 (32 & 64 bit), Linux, Mac OSX. NOTE: Mac OSX software only provides basic image management, no measurement or extended features.
PC Requirements (USB)	CPU equal or greater than Intel Core2 2.8GHz
	Memory: 2GB or more.
	USB 2.0 Port
Operating Temp	-10°C~50°C
Storage Temp	-20°C~60°C
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Size	58mm x 58mm x 30mm (2.28″ x 2.28″ x 1.18″), 1lb.

58mm

58mm

30mm

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