Magnüs

MagCam
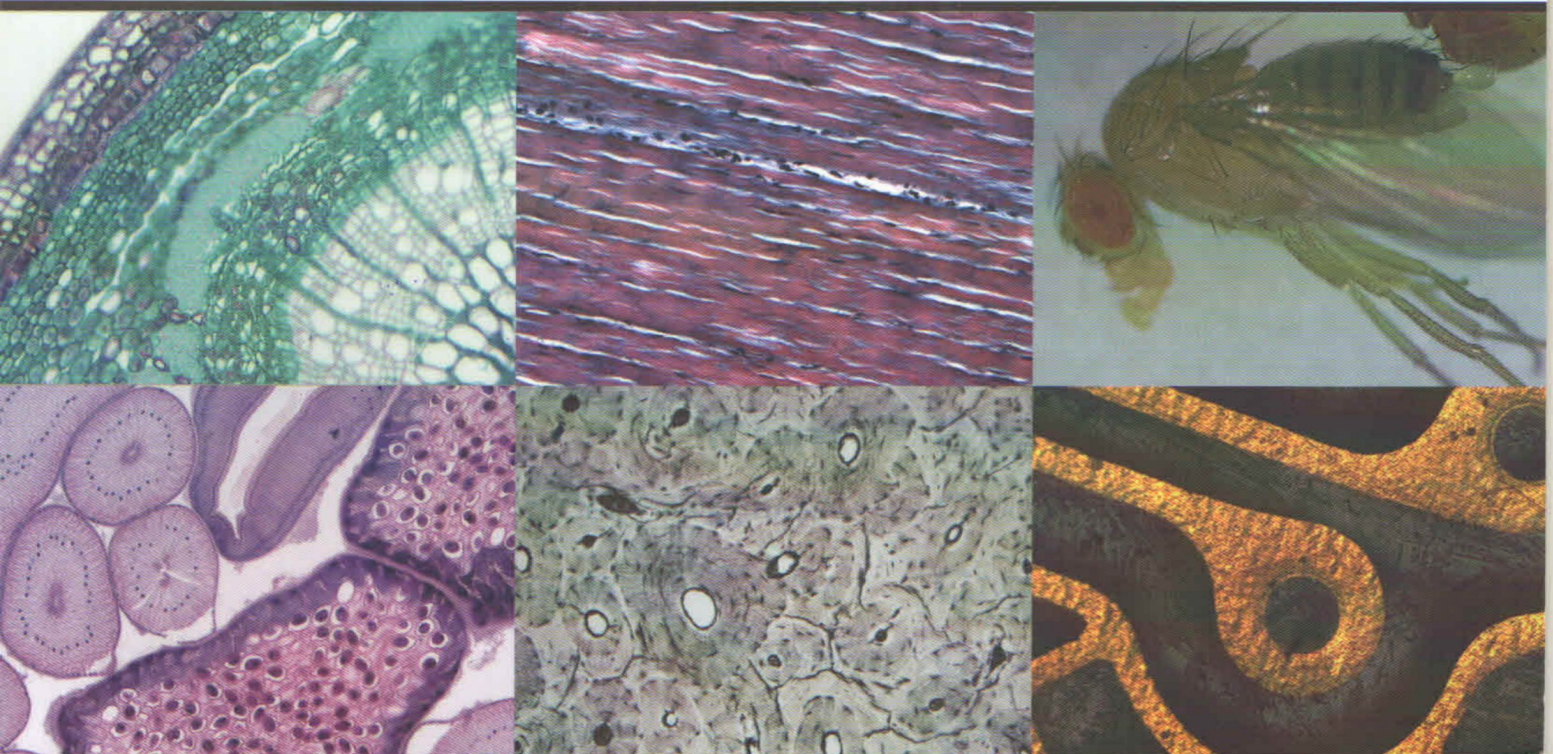## HDC SERIES

Next Generation
Digital Microscopy Cameras
HDMI Camera for Digital Teaching
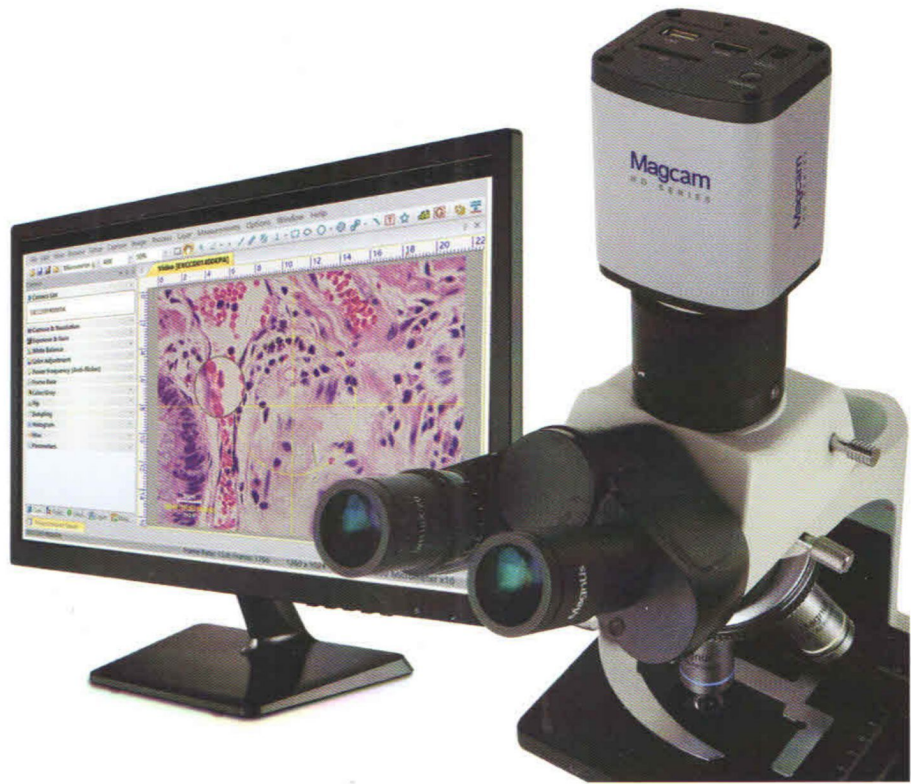
MagCam
HDC·SERIES

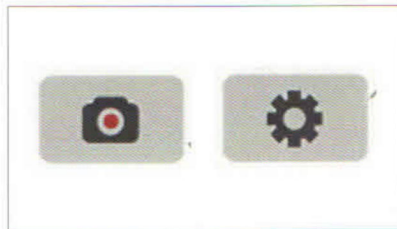## HD Microscope Cameras with built in SD Card

No Need for PC

The significant innovation in Magcam HD cameras is embedding the application software inside the camera. The user can control the camera with just a mouse. There is no need for a PC.
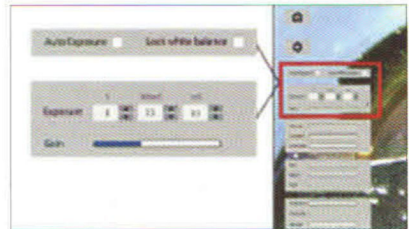
Superb Smart Camera

Magcam HDC cameras automatically analyze the acquired images and optimize the white balance, exposure time and saturation, to present perfect images. Whatever for bright field bio imaging or dark field birefringent crystal imaging, Magcam HDC cameras deliver ideal images, barely needing any parameter adjustment.
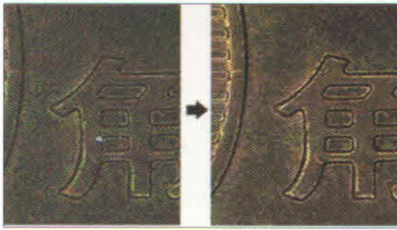
The less Icons the Better

Magcam HDC cameras embedded software is designed for ease of use. There are only two icons on the software starting screen, one for image capture and the other for the settings menu. It's as intuitive as smartphone.

Exposure Setting

For the first time, an HDMI camera is equipped with complete exposure and gain settings. It allows to exposure settings from 1ms to up to 10 seconds and 20 levels of gain adjustment.
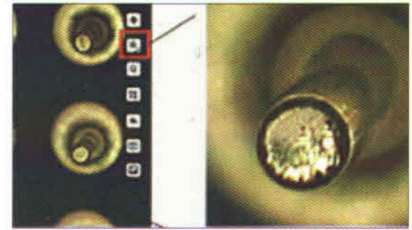
3D Noise Reduction

An increase of the exposure time increases the image noise. But the integrated 3D noise reduction function keeps the TrueChrome IIS image always clean and sharp. The following comparison images show the amazing 3D noise reduction effect.

1080P Video Recording

Just click on the button to start recording 1080P videos at 30fps. The recorded video files will be saved to the high speed SD card directly. It is also allows playback the videos in the SD card directly.

Get more Details with ROI Magnification Function

A series of image operation buttons on the right side of the screen allows the image to be flipped, rotatedor a Region of Interest (ROI) to be selected. The ROI function can help to get more image details throughmagnification.
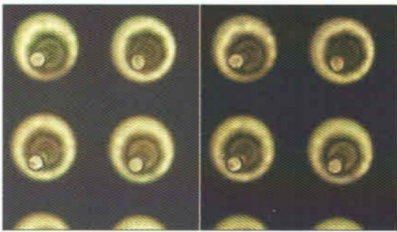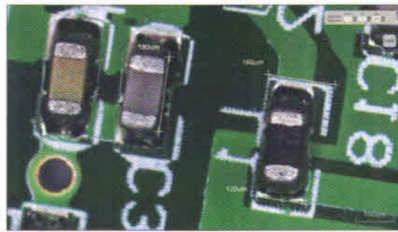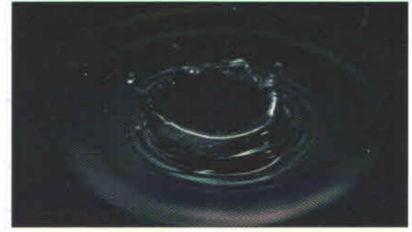

Image Comparison Function

The image comparison function is available in the setting menu. An image can be chosen to compare with the live image and even movedaround or have a ROI selected.
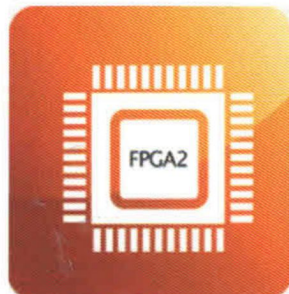

The built-in measurement function*

With built-in critical dimensioning functionality, the Magcam HDC cameras are not only superb imaging camera, but also powerful metrology tools. This greatly extends the application areas of the Magcam HDC cameras. The metrology functions include calibration, scalebar and line measurement.
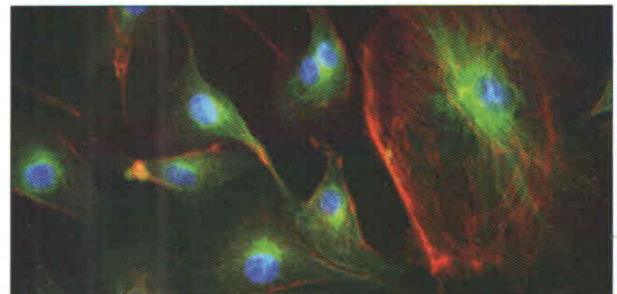

1080p 30fps Full Frame Rates*

Guaranteed 30 fps at 1080p, Magcam HDC cameras present a perfect combination of outstanding resolution and frame rate, which allows the user to smoothly manipulate live images without any monitor lag.

The FPGA dual-core processor

Magcam HDC cameras adopt innovative FPGA dual-core processor, FPGA1 high-definition image quality processor and FPGA2 image output controller, to ensure high speed high quality images.

HDMI FL imaging Capability*

Taking advantage of the ultra-high signal to noise ratio sensor, MagCam HDC Pro allows you to set up to 10 seconds exposure time. The incredibly efficient 3D noise reduction performance delivers finest detailed images for low light fluorescence.

Technical Specifications

Camera MODEL	MagCam HDC Pro	MagCam HDC Lite
MODEL NO	HDC 6	HDC 5
Camera Casing	Metal Alloy	
Camera Dimension	78 × 70 × 92 mm	68 × 68 × 92 mm
Image Sensor	Sony IMX236	MT9P031
Sensor size	1/2.8", 5.5 × 3.4 mm	1/2.5", 5.7 × 2.8 mm
Dynamic resolution	1920x1080	1280x720
Pixel size	2.8 μ × 2.8 μ	2.2 μ × 2.2 μ
Frame rate	60fps @ 1920x1080 via HDMI @ 1x1 binning	30fps @ 1280x720 via HDMI @ 1x1 binning
Capture	High speed SD card(8G)	High speed SD card(4G)
Video recording	1080p 30fps @SD Card	1080p 15fps @SD Card
Exposure time	0.4 - 999 ms	0.21 - 33 ms
White balance	Auto	Auto
Setting	Gain, gamma, saturation, contrast	Gain, gamma, saturation, contrast
Built-in software	Cloud 1.0 Ver	Cloud 1.0 Ver
PC software	ISCapture	ISCapture
Output port	USB2.0, microSD Card, HDMI	SD Card, HDMI
Compatible OS	Window XP and above	Window XP and above
Optical port	Standard C-Mount	Standard C-Mount