

### The Accu-scope Excelis HD color microscopy camera is a full-featured HD camera for scientific and industrial applications.

Excelis HD offers 60fps in video preview with unrivaled color fidelity and on-board image capturing capability. Excelis' unique system architecture offers simultaneous live image output to an HD monitor and to a computer via USB 2.0. Images can be saved directly to a PC or Mac, or onto the SD card.



#### Features:

- Incorporates dual FPGA processors and unique algorithms that produce perfect color reproduction
- Innovative technology of the Excelis HD camera offers full 1080p60 video preview for HD output without any lag time
- Internal software and external HDMI port allow users to connect directly to an HD monitor for live/real time viewing, capturing and saving of images to an SD card without being connected to a computer
- This on-board software also enables the user to control the camera with a click of the mouse rather than searching for buttons on the camera, making the Excelis HD camera the ideal choice for teaching, group presentations, or when a computer set-up is not an option
- 60fps HDMI and 30fps USB 2.0 data transfer at 1920x1080 resolution, make the Excelis HD camera one of the fastest HD 1080p cameras on the market today
- Fluorescence Imaging:
  - » The ultra-high signal-to-noise ratio sensor allows users to set exposure time from 1ms to up to 10 seconds and adjust 20 scales of Gain value.
  - » And the incredibly efficient 3D noise reduction performance delivers detailed low light images making the Excelis HD camera a great choice for fluorescence applications.
- Simple Software Interface: Only two icons appear on the start screen —one for capturing an image, the other for menu settings.
- Auto or Manual Exposure Time Capability: With the Excelis HD camera users are in full control of the exposure and gain. Use the Auto Exposure function or set the exposure time from 1ms up to 10 seconds and adjust 20 scales of Gain value.
- 3D Noise Reduction: Longer exposure times increase image noise. The integrated 3D noise reduction function keeps the Excelis HD camera image clean and sharp!
- 1080P Video Recording: Just click on the video record icon to start recording 1080P videos at 30fps. The recorded video files will be saved directly to the high speed SD card. Users can also playback videos directly from the SD card.
- Magnify (ROI), Rotate & Flip Images With Ease! Image operation buttons on the right side of the screen allow users to select a ROI (Region of Interest), as well as flip or rotate an image. The ROI feature of the Excelis HD camera helps to get more image details by magnifying the image.
- Side X Side Image Comparison: The image comparison function allows you to choose one image, move the image position, or select the ROI area to compare with the live image.

# Accu-scope Excelis HD

## Color Miscroscopy Camera

### Specifications:

- Sensor Size 1/2.7", 0.5x C-mount recommended
- Live Resolution: 1920 x 1080
- Frame Rate: HDMI (60fps); USB 2.0 (30fps)
- Image Capture: High Speed SD Card (8GB)
- Video Capture HDMI: 1080p, 60fps to SD Card
- USB 2.0: 1080p, 30fps to PC or Mac
- Exposure Time: 0.001sec—10.0 sec
- White Balance: Auto
- Settings: Gain, Gamma, Saturation, Contraction
- Built-in Software: Cloud 1.0
- PC Imaging Software
- CaptaVision Imaging Software (for PC only; Mac OS not supported)
- Advanced Camera Controls: live/still image measurement and annotation; flat field correction; extended depth of focus (focus stacking); image stitching; fluorescence image settings; fluorescence multi-color channel merge; HDR (High Dynamic Range) function
- Image Types: JPEG, BMP, TIFF and RAW
- Output Modes: Mode 1: USB 2.0 / Mode 2: HDMI
- System Compatibility: Windows XP, Vista, 7, and 8 (32 or 64 bit); Mac OSX (for image transfer to Mac OSX only)
- System Requirements: Intel processor (Core 2 Duo or higher); 2GB memory or more; USB 2.0 Hi-Speed port
- Power Supply: DC12V/1A

