

The *Excelis* 300 HD Lite Series color microscopy cameras set a new standard for excellence in high definition imaging for scientific and industrial applications.

Excelis 300 HD Lite Series cameras are full featured HD cameras offering 30fps in video preview with unrivaled color fidelity and on-board image capturing capability.



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## **Connect Your Way!**

Excelis' unique system architecture enables it to offer simultaneous live image output to an HD monitor and to a computer via USB connection.. Images can be saved directly to a PC or Mac, or onto the SD card. Each camera is supplied with the PC/Mac-compatible on-board image capture software, as well as our full-featured CaptaVision PC image analysis software.



Output USB2 0 Output







PC Compa

Mac Compatible

## Easy to Use On-Board Software, Intuitive Interface & Simple to Install!

Industrial • Pathology • Cytology • Histology • Gemology Brightfield • Phase Contrast • Darkfield









## **Superior Performance & Color**

Built upon decades of microscopy and digital imaging experience, *Excelis* HD Series incorporates dual FPGA processors and unique algorithms that produce perfect color reproduction. The innovative technology of the *Excelis* HD cameras offers full 1080p video preview for HD output without any lag time or compression.

# Built-in Mouse Control Software For HDMI Viewing & Recording Without a Computer!

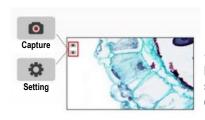
The advanced design of the *Excelis* HD cameras feature software inside the cameras and an external HDMI port allowing users to connect directly to an HD monitor for live/real time viewing, capturing and saving of images to an SD card without being connected to a computer. This on-board software also enables the user to control the camera with a click of the mouse rather than searching for buttons on the camera, making an *Excelis* HD Series camera the ideal choice for teaching, group presentations, or when a computer set-up is simply not an option!



## HDMI ~ 30fps USB2.0 ~ 15fps

With 30fps HDMI and 15fps USB 2.0 data transfer at 1920x1080 resolution, the *Excelis* HD camera is one of the fastest HD 1080p cameras on the market today!

# **Built-in Camera Functions Get You Up & Running FAST!**



## **Simple Software Interface**

Less is definitely more with the built-in camera software — 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 cameras 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 15fps. The recorded video files will be saved directly to the high speed SD card. Users can also playback videos directly from the SD card.

## **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.

## **Browse Captured Images & Video**

Easily browse images on the SD card, zoom in on images, or delete them. You can even playback video files saved to the SD card from the Browse feature.



## On Board Imaging Tools





With the Excelis HD camera, no driver is needed when you connect to a PC or Mac via the USB 2.0 camera port.

With our Quick Start Guide, you'll be up & running in no time with the on-board software that features basic imaging tools:



Flip Horizontally



Flip Vertically



Zoom In



Zoom Out



**Division Cancel** 



Crossline



Comparison Browser



Browser





Get More
Image Control,
Analysis,
Annotation
& More With
CaptaVision
PC Imaging

With the Excelis HD cameras, no driver is needed when you connect to a PC or Mac via the USB 2.0 camera port.

Software!

And, the included CaptaVision software for PC puts more image control features in your hands including focus stacking, image stitching and more!



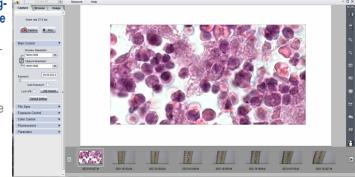


# Feature-Rich CaptaVision Software Gives You More!

Included with every *Excelis* HD camera, is our intuitive and feature-enhanced *CaptaVision* software for PC that allows for more image control, analysis, annotation and more!

## **Advanced Camera Control**

- Basic camera settings: live image resolution, live capture resolution, exposure, white balance, and white balance wizard
- Acquisition of still images and video with image types: jpg, bmp, tiff and RAW, and file save destination feature
- Exposure control: auto, manual, gain, frame speed and data width
- Color control:



- Parameter group: save parameters for different applications
- Live image measurement tools: scale line, calibrate, calibrate table, decimal, measurement data list, layers, lock/unlock, line, parallel, perpendicular, rectangle, 2-points circle, 3-points circle, diameter circle, concentric circle, polygon, arc, angle, point, annotate, cross-ruler
- Live image shortcut tools: a special shortcut toolbar on the live image window to process live images quickly
- Image Management: The Browse feature displays the file name, capturing time, color depth (bit), picture resolution and image size even add comments to any individual image!
- Image Processing: basic captured image functions and more including extended depth of focus, imaging stitching, measuring, labeling (including time/date stamp), HDR (High Dynamic Range) function

CaptaVision software interface is easy to navigate. A user manual is included on the flash drive provided.

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# Choose Your Excelis HD!

## 300 HD LITE Camera

**CAT# AU-300-HD** 

This model offers 30fps (HDMI) and 15fps USB 2.0), Aptina sensor, and an 4GB SD card with a cool gray casing.

See complete specifications on back cover.

## Complete 300 HD LITE Camera & Monitor System!

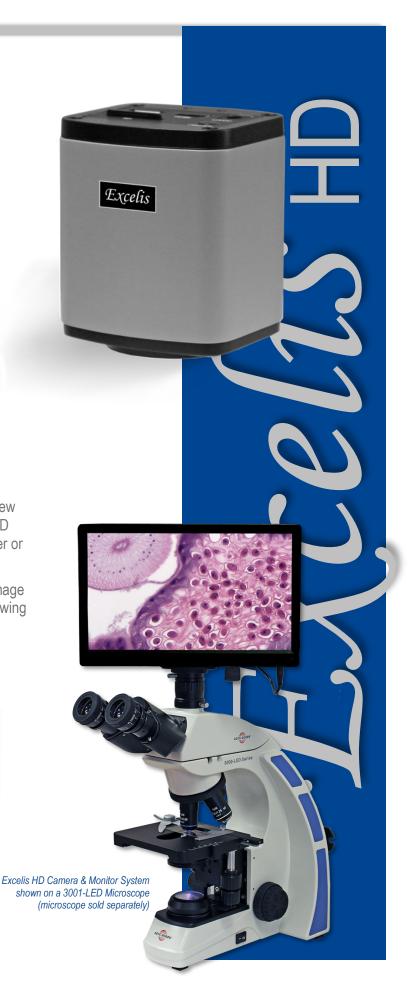
Our *Excelis* Camera & Monitor System allows user to view and capture images and video directly to the supplied SD card included with the camera — no need for a computer or separate HD monitor!

The 11.6" HD display provides beautiful, crystal-clear image quality and vibrant, true-to-life color with exceptional viewing from all angles.

CAT# AU-300-HDS



The Excelis HD camera is mounted directly to the monitor, saving space. If needed, it can be mounted elsewhere with additional components





## 300 HD LITE SERIES

## What's Included:

- Excelis HD Camera
- HDMI Cable
- USB 2.0 Cable
- 12v Power Adapter
- SD Card
- USB 2.0 Mouse
- CaptaVision PC Imaging Software
- HDMI Cable With L Adapter (with AU-300-HDS)
- Y Power Splitter ( with AU-300-HDS)
- 11.6" HD Display (with AU-300-HDS)
- Mounting Hardware (with AU-300-HDS)



## CAMERA SPECIFICATIONS

Model AU-300-HD • AU-300-HDS

Sensor Aptina MT9P031

Sensor Size 1/2.5", 0.5x C-mount recommended

Live Resolution 1920 x 1080

Frame Rate HDMI (30fps); USB 2.0 (15fps) High Speed SD Card (8GB) **Image Capture** 

HDMI: 1080p, 15fps to SD Card Video Capture USB 2.0: 1080p, 15fps 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

> CaptaVision Imaging Software (for PC only; Mac OS not supported)

PC Imaging Advanced Camera Controls: still image measurement and annotation; Software flat field correction; extended depth of focus (focus stacking); image stitching;

> HDR (High Dynamic Range) function Image Types: JPEG, PNG, TIFF and DICOM

**Output Modes** Mode 1: USB 2.0 / Mode 2: HDMI

> Windows XP, Vista, 7, 8, and 10 (32 or 64 bit) Mac OSX (for image transfer to Mac OSX only)

Compatibility System Requirements: Intel processor (Core 2 Duo or higher); 2GB memory or more;

USB 2.0 Hi-Speed port

**Power Supply** DC12V/1A

System

### MONITOR SPECIFICATIONS

Mountable 11.6" HD Display Contrast: 1000:1; Dot Pitch: 0.1338mm Monitor

Input Modes AC power, HDMI

Design, features and specifications are subject to change without notice.

## **ISO 9001**

Design and production adheres to ISO9001 international quality standard

#### ISO 14001

Design and production meets the requirements of international standard ISO 14001 for environmental management.











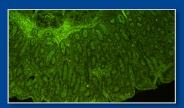
Perfect color reproduction



Manipulate live images without lag



Motion trails are recorded in fast speed and intact form



Rapid captures of low light images



Full HD resolution allows clear and fast live image inspection



Dual, live video streaming from a PC to any HDMI imaging device

