AU-600-HD HIGH DEFINITION COLOR CAMERA

Excelis
HD MICROSCOPY CAMERA

The new *Excelis* HD color microscopy camera sets a new standard for excellence in high definition imaging for scientific and industrial applications.

Excelis HD is a full featured HD camera offering 60fps in video preview with unrivaled color fidelity and on-board image capturing capability.

Connect Your Way!

Excelis' unique system architecture is the only camera in its class to offer ***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. 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.

HDMI Output | USB2.0 Output | SD Storage | PC Compatible | Mac Compatible

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

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

JR INSTRUMENTS
11838 Jefferson Blvd., Culver City, CA 90230 • 310 398-7951(P) • 310 398-7971(F)
info@jrinstruments.com • www.jrinstruments.com

Excelis

Superior Performance & Color

Built upon decades of microscopy and digital imaging experience, *Excelis* HD incorporates dual FPGA processors and unique algorithms that produce perfect color reproduction. The innovative technology of the *Excelis* HD camera offers full 1080p60 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 camera features software inside the camera 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 the *Excelis* HD camera the ideal choice for teaching, group presentations, or when a computer set-up is simply not an option!

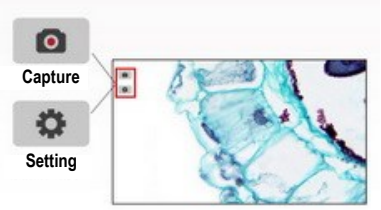
HDMI ~ 60fps
USB2.0 ~ 30fps

With 60fps HDMI and 30fps USB 2.0 data transfer at 1920x1080 resolution, the *Excelis* HD camera is 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.

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

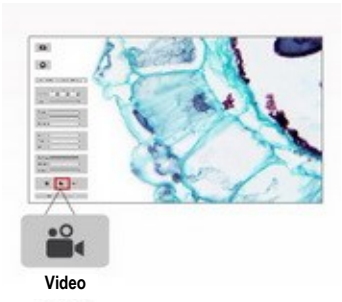
With the *Excelis* HD camera users are in full control of the exposure and gain. Use the Auto Exposure function or set the exposure time from 1ms up to 10 seconds and adjust 20 scales of Gain value.

3D Noise Reduction

Longer exposure times increase image noise. The integrated 3D noise reduction function keeps the *Excelis* HD camera image clean and sharp!

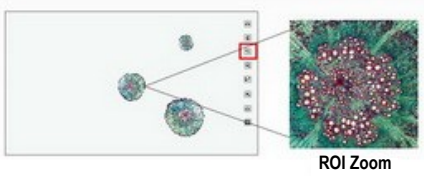
1080P Video Recording

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.



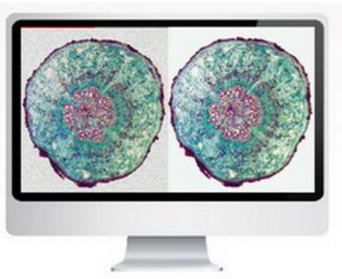
Magnify (ROI), Rotate & Flip Images With Ease!

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.



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.

Get More Image Control, Analysis, Annotation & More With

CaptaVision

PC Imaging Software!

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

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

Compatible With

Excelis HD MICROSCOPY CAMERA

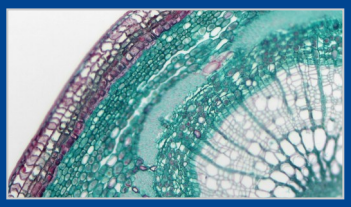
What's Included:

- *Excelis* HD Camera
- HDMI Cable
- USB 2.0 Cable
- 12V Power Adapter
- 8GB SD Card
- Mouse
- *CaptaVision* PC Imaging Software

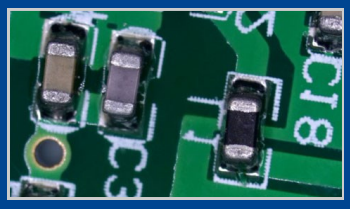
Features

Sensor	SONY IMX236
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

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

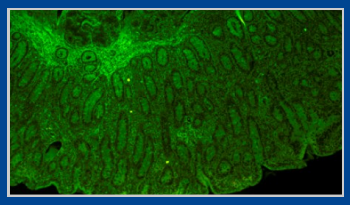


Perfect color reproduction



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

ISO 9001
Certification
Design and production adheres to ISO9001 international quality standard.

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

CE RoHS

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