

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



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



UNITRON®

Excelis



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

The *Excelis* 600 HD cameras are full featured HD cameras offering 60fps in video preview with unrivaled color fidelity and on-board image capturing capability.

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+** image analysis software for PC and Mac OS.





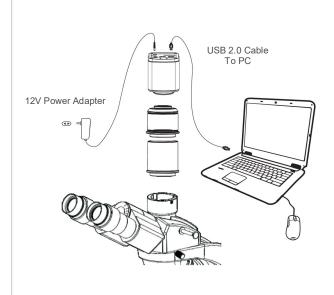








Easy Installation!



Connecting the AU-600-HD to a Microscope & PC (C-mount adapter required—sold separately)

Power Adapter
With Y Power

USB 2.0 Mouse
to USB Port

Connecting the AU-600-HDS
to a Microscope
(C-mount adapter required—sold separately)



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 ~ 60fps/30fps* 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.

^{*}HDMI 60fps live viewing / 30fps HDMI image transfer.



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:





Calibration



Flip Horizontally



Flip Vertically



Zoom in



Zoom Out





Mask



Browser



Comparison



Browser



Division Cancel



Crossline





Ruler



This feature is available only on AU-600-HD cameras purchased after July 1, 2017 and with SN# ending with "-M" or -"MC"(i.e., 1707001-M).

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 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.



Measurement Tools To Achieve Micron-level **Precision Measurement!**

With the new on-board software. Excelis 600-HD Series cameras now allow for precision measurements to be performed and saved on the HD view.

A variety of measuring tools can be utilized to measure line, distance, angle, length, circumference and area to 1/100 microns.



Measurement

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.



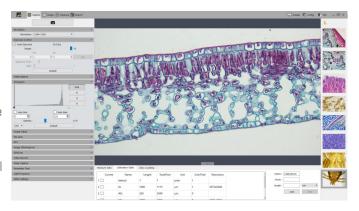
Feature-Rich CaptaVision+ **Software Gives You More!**

Included with every Excelis HD 600 Series camera, is our intuitive and feature-enhanced CaptaVision+ software that allows for more image control, analysis, annotation and more!

Advanced Camera Control

- **■** Basic camera settings: live and capture image resolution, exposure control, white balance, and time-lapse and video capture
- **■** Exposure control: auto exposure, target, manual exposure time, gain
- Image adjust: flatfield correction, saturation. contrast sharpness
- Image stitching (live): low, medium, high quality live image stitching
- **EDF (live):** low, medium, high quality live extended depth of focus imaging
- Parameter save: save imaging settings for different Applications
- **Measurement tools:** live and saved images, calibration, measurement layers, configurable properties, scale, ruler, grid, line parallel, perpendicular, rectangle, 2-points circle, 3-points circle, diameter circle, concentric circle, polygon, arc, angle, point, class counting, annotate
- Image management: folder structure, captured images displayed in gallery
- Image processing: basic image adjustment functions such as brightness, gamma, contrast, saturation, sharpen and more including extended depth of focus, image stitching, HDR (High Dynamic Range), binarization, color extraction
- Fluorescence: capture in gray scale, pseudocolor images, create color composites

EDF(Live) Delay Capture CaptaVision+ software interface is easy to navigate.



Resolution: 3264×1836



Get More Image Control, Analysis, **Annotation** & More With CaptaVision+ **Imaging** Software!

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

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





A user manual is included on the flash drive provided.

Choose Your Excelis HD!

600 HD Camera

CAT# AU-600-HD

For those who need speed, live image measurement and fluorescence capability, this model offers fast 60fps (HDMI) and 30fps (USB 2.0), SONY IMX236 sensor, and an 8GB SD card with a sleek black casing.

See complete specifications on back cover.



Complete 600 HD Camera & Monitor System!

Our *Excelis* Camera & Monitor System allows users 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-600-HDS







What's Included:

- Excelis HD Camera
- HDMI Cable
- USB 2.0 Cable
- 12v Power Adapter
- SD Card
- USB 2.0 Mouse
- CaptaVision+ Imaging Software
- HDMI Cable With L Adapter (with AU-600-HDS)
- Y Power Splitter (with AU-600-HDS)
- 11.6" HD Display (with AU-600-HDS)
- Mounting Hardware (with AU-600-HDS)





CAMERA SPECIFICATIONS

Model AU-600-HD • AU-600-HDS

SONY IMX236 Sensor

Sensor Size 1/2.8", 0.35x C-mount recommended

Live Resolution 1920 x 1080 **Static Resolution** 3264 x 1836

Frame Rate HDMI (60fps); USB 2.0 (30fps) **Image Capture** 6.0MP / High Speed SD Card (8GB) HDMI: 1080p, 30fps to SD Card Video Capture USB 2.0: 1080p, 30fps to PC or Mac

Exposure Time 0.001sec—10.0 sec

White Balance Auto

Imaging

Software

Gain, Gamma, Saturation, Contraction **Settings Built-in Software** Cloud 1.0 (With live image measurement)

CaptaVision+ Imaging Software for PC and Mac OS

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, PNG, TIFF and DICOM (DICOM not available for Mac)

CaptaVision+ is compatible with Excelis HD cameras purchased after January 2019

(Serial numbers starting with "19" — i.e., SN 19XXXXX)

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

Windows XP, Vista, 7, 8, and 10 (32 or 64 bit)

Mac OSX 10.4 and higher System Compatibility

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

USB 2.0 Hi-Speed port

Power Supply DC12V/1A

MONITOR SPECIFICATIONS

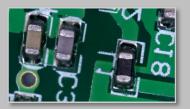
Monitor Mountable 11.6" HD / Display Contrast: 1000:1; Dot Pitch: .1338mm

Input Modes AC power, HDMI

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



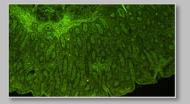
Perfect color reproduction



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





LIMITED WARRANTY DIGITAL CAMERAS FOR MICROSCOPY

This digital camera is warranted to be free from defects in material and workmanship for a period of one (1) year from the date of invoice to the original (end user) purchaser. This warranty does not cover damage caused intransit, damage caused by misuse, neglect, abuse or damage resulting from either improper servicing or modification by other then ACCU-SCOPE or UNITRON approved service personnel. This warranty does not cover any routine maintenance work or any other work that is reasonably expected to be performed by the purchaser. No responsibility is assumed for unsatisfactory operating performance due to environmental conditions such as humidity, dust, corrosive chemicals, deposition of oil or other foreign matter, spillage or other conditions beyond the control of ACCU-SCOPE INC. or UNITRON Ltd. This warranty expressly excludes any liability by ACCU-SCOPE INC. or UNITRON Ltd for consequential loss or damage on only grounds, such as (but not limited to) the non-availability to the End User of the product(s) under warranty or the need to repair work processes. All items returned for warranty repair must be sent freight prepaid and insured to ACCU-SCOPE INC., 73 Mall Drive, Commack, NY 11725 – USA. All warranty repairs will be returned freight prepaid to any destination within the Continental United States of America. Charges for repairs shipped back outside this region are the responsibility of the individual/company returning the merchandise for repair.



