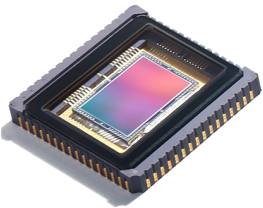# *Excelis* MPX

HIGH RESOLUTION MICROSCOPY CAMERA

The new *Excelis* MPX-20C CMOS microscopy cameras deliver exceptional performance in a compact, low-profile design.

The revolutionary, feature-rich *CaptaVision+* software provides real-time image stitching, real-time depth-of-field fusion, report generation & export, plus more!

SONY Professional CMOS Sensor

The MPX-20C uses a Sony Exmor™ IMX-183 20MP 1" CMOS sensor with 2.4µm pixels. With a captured image resolution reaching 5472x3648 pixels, the MPX-20C resolves fine details from low to high magnifications.

Advanced Rolling Shutter Technology

The rolling shutter of the MPX-20C provides very high resolution, excellent light sensitivity in a color camera, and high speed acquisition and read out ideally suited for microscopy imaging especially in brightfield and stereo applications.

USB 3.0 High-Speed Transmission

USB 3.0 super-speed transmission interface is simple, convenient and ensures a stable high-data transmission rate allowing fast-focusing at high resolution. Imaging can be performed at a rate of 15fps at full 20MP!

Excellent Color Reproduction

The MPX-20C's core ISP color-interpolation algorithm effectively simulates the human eye's sensitivity to color. The colors in the image are true to the color seen in the eyepiece, whether it is a biological brightfield, stereo or fluorescence image.
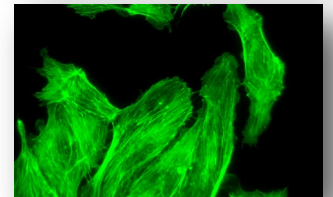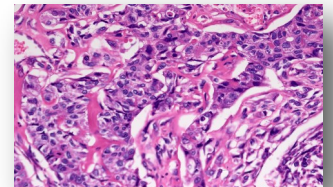
Feature-Rich *CaptaVision+* Imaging Software

The innovative interface and workflow-based design redefines the image acquisition → editing → measurement → report output workflow process saving operating time and improving productivity.

ACCU-SCOPE®

UNITRON®
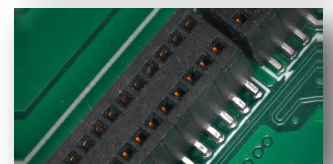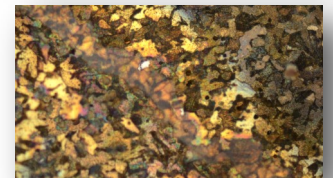
- 20MP CMOS Camera
- Ultra-high speed Image Transfer
- USB 3.0 Connectivity *CaptaVision+* Imaging Software

Outstanding color reproduction

Real-time depth-of-field fusion

Real-time stitching can generate mosaic images while moving the stage

CAMERA & SOFTWARE SPECIFICATIONS

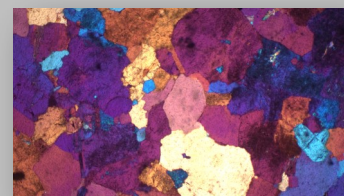|	
Model	AU-20C-CMOS
Sensor / Model	CMOS ● Sony IMX183CQJ-J
Sensor Size	1"; 1.0x C-mount (recommended)
Image Transmission	High-speed
Pixel Size	2.4µm x 2.4µm
Resolution	5472 (H) X 3648 (V)
Frame Rate	15FPS (5472x3648), 53fps (2736x1824), 67fps (1824x1216)
Shutter Mode	Rolling
Exposure Time	0.13ms—15s
Automatic Settings	Exposure, Color Scale, White Balance
Manual Settings	Exposure, Gain, Noise Reduction, Gamma, Flat Field Correction
Color Temperature	2000-15000K
ADC Depth	12Bit
Operating Temperature & Humidity	0-40ºC
Camera Size & Weight	68x68x46mm / 330g
Data Interface	USB 3.0, compatible with USB 2.0
PC Imaging Software *(See additional features at right)*	*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)*
System Software Compatibility	Windows XP, Vista, 7, 8, and 10 (32 or 64 bit); Mac OSX 10.4 and higher **System Requirements:** Intel processor (Core 2 Duo or higher); 2GB memory or more; USB 2.0 Hi-Speed port

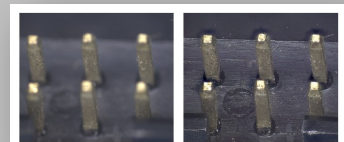*Design, features and specifications are subject to change without notice.*

CaptaVision+ Features

- Intelligent 12-bit ISP color reproduction
- Real-time depth-of-field fusion
- Real-time image stitching
- Real-time fluorescence image synthesis and editing
- HDR image synthesis
- Micro-imaging-based intelligent automatic exposure
- Intelligent flatfield correction based on dynamic calculation
- Smart measurement workflow
- Implements multiple interations of workflow execution
- Supports single shot, delayed camera
- Automatic video and delay video generation
- Output format selection
- User parameter group save and load
- Dynamic / static measurement
- Layered measurement
- Customize measuring gauges, layers, precision, image naming, style, save location
- Data export as TXT or Excel
- Drawing tools: points, lines, rectangles, polygons, circles, arcs & angles
- Report generation and printing

300x240 pixels, RGB:281K
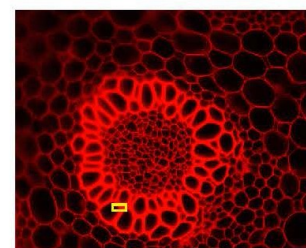

3849	7087

Count: 2079 — Min: 3849
Mean: 5746. 380 — Max: 7087
StdDev: 447. 027 — Mode: 5476[31]
Bins: 256 — Bin Width: 12.648
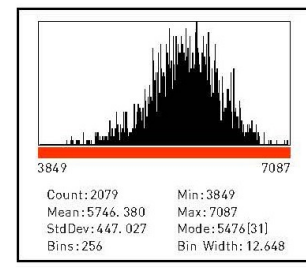
Advanced noise reduction for fluorescence imaging
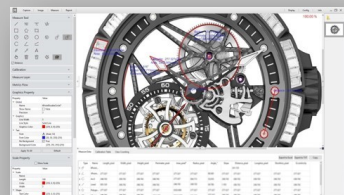
Innovative interface streamlines the image acquisition / editing / measurement & report output workflow process

ISO
9001 ● 14001

CE RoHS