

Excelis MPX

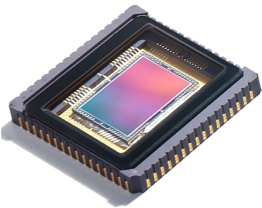
HIGH RESOLUTION MICROSCOPY CAMERA

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.

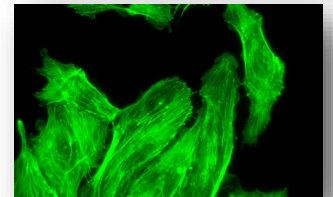
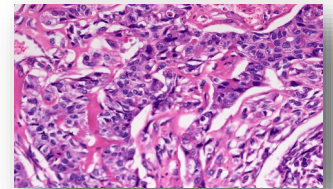


USB 3.0 High-Speed Transmission

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!

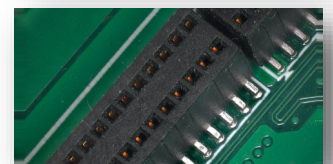
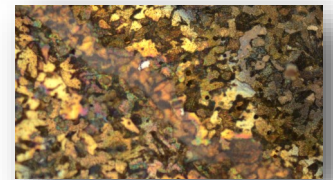
Excellent Color Reproduction

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.



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



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 | 0-40°C |
| 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

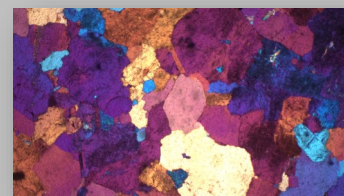
Windows XP, Vista, 7, 8, and 10 (32 or 64 bit); Mac OSX 10.4 and higher

System Requirements: Intel processor (Core 2 Duo or higher); 2GB memory or more; USB 2.0 Hi-Speed port

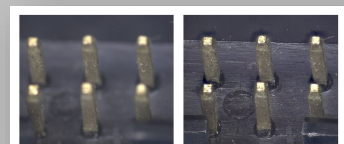
CaptaVision+ Features

- 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 iterations 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

ISO
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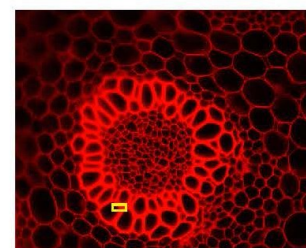
Outstanding color reproduction



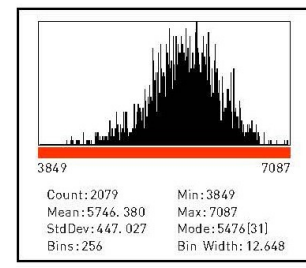
Real-time depth-of-field fusion



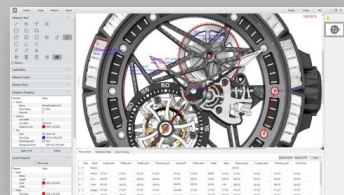
Real-time stitching can generate mosaic images while moving the stage



300x240 pixels, RGB:281K



Advanced noise reduction for fluorescence imaging



Innovative interface streamlines the image acquisition / editing / measurement & report output workflow process

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