

Digital Camera Family

As a microscopy product independent manufacturer, Visitron Systems GmbH offers most flexible imaging systems based on color or monochrome digital cameras for Histology or Fluorescence analysis. All known camera manufacturers like Teledyne /Photometrics, QImaging, Andor, Hamamatsu, PCO or our own OEM VisiCam are offered in combination with our VisiView® Microscopy Imaging Software.

Our range of supported cameras, for any kind of microscopy applications and documentation of imaging, ensures that you will find the real combination of specifications that match your requirements.

Visitron

**Digital Camera
Family**

Kinetix sCMOS



Example of camera family with Photometrics, PCO and VisiCAM cameras

KINETIX sCMOS „The New Category in Cameras“!

The back-illuminated Kinetix Scientific CMOS (sCMOS) camera from Teledyne / Photometrics delivers the fastest speed and the largest field of view with the most balanced pixel size and near perfect 95% quantum efficiency.

- » 500 Frames per Second
- » 29.4 mm Diagonal Field of View
- » 2 e- Read Noise
- » 95% Quantum Efficiency
- » 6.5 μm x 6.5 μm Pixel Area
- » 3200 x 3200 Pixel (10,24 Megapixel)



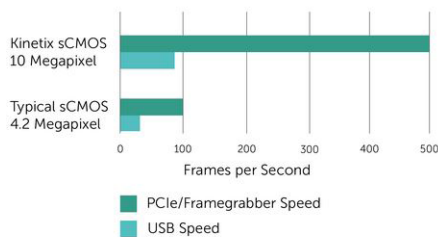
Visitron

Digital Camera Family

Kinetix sCMOS

High Speed Microscope Imaging System

The new generation of innovative scientific sCMOS sensors provides crisp images and precise measurements. It is an ideal imaging device with up to 10 megapixel array, which enables observation of large fields of view at maximum resolution with 6,5 µm pixel size. The high speeds of up to 500 frames per second at an extremely low read noise level opens new application fields in digital imaging and microscopy.



Extreme Speed

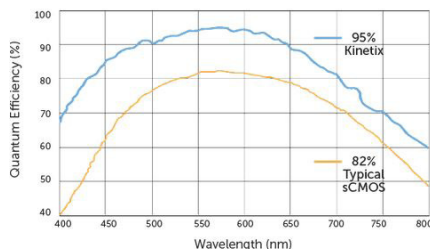
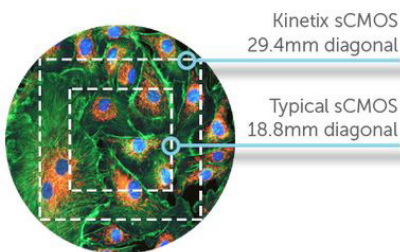
Taking advantage of an 8-bit readout mode, the Kinetix sCMOS delivers a tremendous 500 frames per second (fps), full frame with a 29.4 mm diagonal field of view.

The optimized line time allows the speed to significantly outperform typical sCMOS devices, delivering over 5000 megapixels/second – over a 10-fold improvement.

Large Field Of View

The 29.4 mm square sensor of the Kinetix is designed to increase throughput, maximize the amount of data captured in a single frame and take full advantage of new, larger field of view microscopes.

At 29.4 mm diagonal, the Kinetix sensor has a 2.4x larger imaging area than typical sCMOS cameras allowing the user to significantly speed up data acquisition.



High Sensitivity

The Kinetix back-illuminated sCMOS camera achieves a near-perfect 95% quantum efficiency.

By bringing the light in from the back of the sensor, photons land directly onto the light receiving surface, maximizing light collecting capability.

The Kinetix combines 95% quantum efficiency with a low 1.2 e- read noise to deliver the most sensitive sCMOS camera at 500 frames per second.

High Resolution

The Kinetix features 6.5 µm x 6.5 µm pixels, the accepted standard for most live cell applications using 40x and 60x magnification.

This pixel size provides highly detailed images across the imaging plane and is most suitable for the broadest range of microscope objectives.

