

CH30 Scientific Camera

The Tucson Discovery CH30 Scientific CMOS Camera features a high performance 3.0 Megapixel Colour sensor producing 2048 x 1536 pixel images at 11 frames per second (or 1024 x 768 at 27 fps) with ultra low background noise and full 12-bit colour depth. The low readout noise combined with superior well depth, produces a dynamic range exceeding that of CCD imagers at several times the cost.

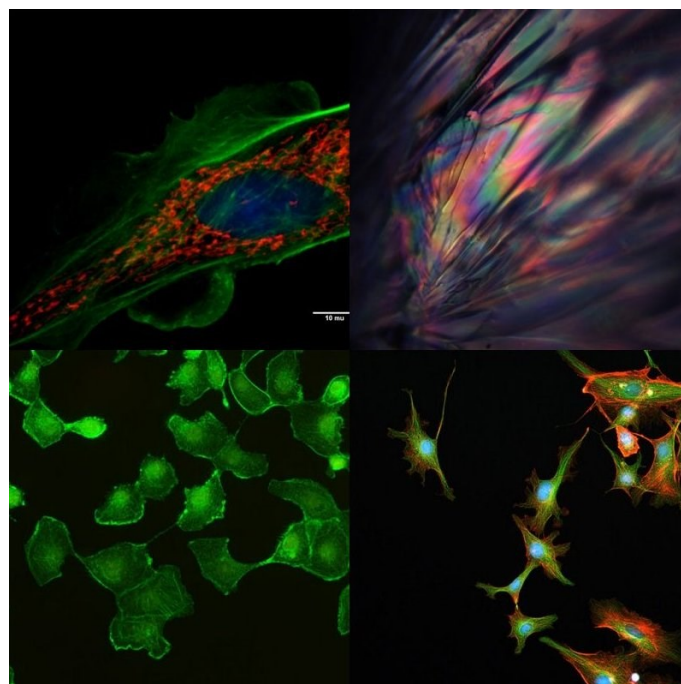
The CH30 Scientific Camera is ideally suited for low light microscopy, astronomy and general microscopy. It's high dynamic range produces high contrasting colour images offer excellent price performance ratio. The camera is standard C-mount for lenses or scope attachments. Camera power is supplied through the USB connector.

The combination of fast frame rate and low noise makes the CH30 ideally suited as a COST EFFECTIVE USB2 Fluorescence Camera. Calibrate & Measurement functions included.

Applications: Bioscience, FITC, FRET
Machine Vision, Solar astronomy
Bio- & Chemi- Luminescence, Biochip reading
Ophthalmology



Type: Air Cooled
Sensor: 1/2.8" CMOS
Resolution: 2048 x 1536 pixels
Effective pixels: 3.0 MP
Pixel Size: 2.5 x 2.5 um
Shutter: Rolling
Scan mode : Progressive
Read-out: 11 fps (2048 x 1536)
27 fps (1024 x 768) Binning 2x
38 fps (684 x 512) Binning 4x
Readout noise: 3e- (rms)
Quantum efficiency: Max 67%
Dynamic range: 69 dB
ADC: 12 bit
Exposure time: 1-10000 msec
Optical mount: C-mount
Filter: Quartz/optical glass
Data port: USB 2.0



ISCapture software

Includes image Capture (jpg, Tiff, BMP, RAW)
Video Capture (avi)

Calibrate, Measurement and Annotate functions

Live Comparison
Image analysis and output ASCII format to Excel
Image Processing : Extended depth of Field , Fluorescence combination.