Vineon Technology

Your partner in digital imaging

usb.camera

uPiX UCV-Series

USB2.0 CMOS Camera

UVC Class Camera

Compact size

Plug & Play - USB video class

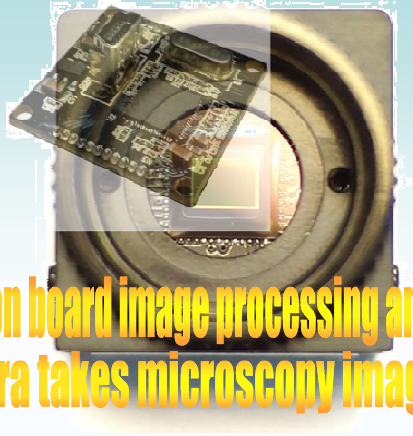
Features:

USB2.0 easy connection- No external power required
Excellence color reproduction
Excellence image quality
Optimized for High Frame Rate
On board hardware image signal processor
Directshow WDM driver (UVC Driver)
On board EEPROM memory for Camera Settings
And many other features

Applications:

Microscopy
Machine Vision
Medical Imaging
Visual Inspection
Security
2D Barcode & OCR Reading
Other digital imaging applications

Bundled with Image Measurement Software VIS Plus v3.50 !



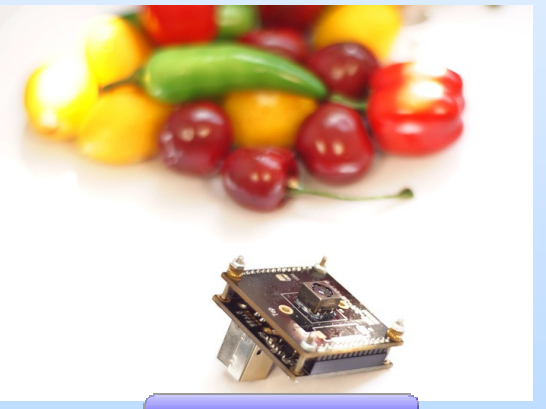
By combining the on board image processing and new imager technology uPix-UCV camera takes microscopy imaging to another level

UCV Series consists of high-performance low cost digital cameras with ISP on board provides unique combinations of speed, resolution, image quality and sensitivity to satisfy the demands of today's imaging applications. UCV series camera is a UVC device, USB video device class (also USB video class or UVC), a USB device class that describes devices capable of streaming video.

- Various models with different imager characteristic and camera mode for different applications.
- Plug & Play – Driverless for Windows (XP,7, 8, 10 & above) and Linux (2.6.26 & above).
- Simple & Easy one USB2.0 cable provides power, video and camera controls
- Unique optimized on board processing design for faster frame rate (high quality MJPEG)
- High sensitivity are achieved through the adoption of Aptina DigitalClarity® & Sony Exmor sensors and it's on board hardware ISP (Image Signal Processor) produces high dynamic range and sharper image besides increasing the frame rate by output high quality MJPEG at 5MP 20FPS on USB2.0, which can only realize by USB3.0.

Fast Frame Rate

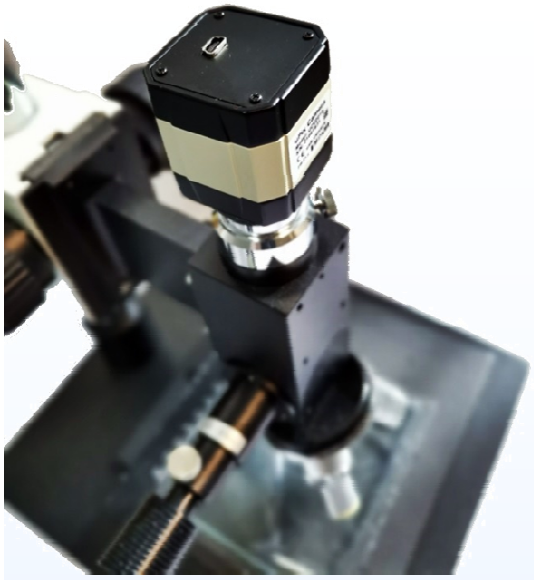
High Quality Image



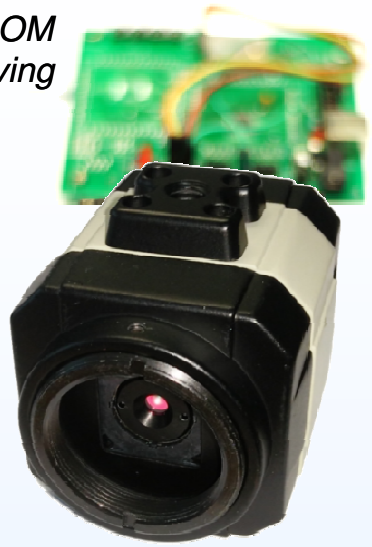
High Sensitivity

High Dynamic Range

FASTER FRAME RATE WITH NEW CMOS SENSOR



All cameras with on board EEPROM memory for Camera Settings Saving



Technical Data

CMOS Sensor	UCV2010	UCV3010	UCV5010	UCV8010
Image Sensor	Aptina CMOS	Aptina CMOS	Sony Exmor	Sony Exmor
Special Features	Built In ISP High Sensitivity On Board eeprom	Built In ISP High Sensitivity On Board eeprom	Built In ISP High Sensitivity On Board eeprom	Built In ISP High Sensitivity On Board eeprom
Sensor Size	1/2.7"	1/3"	1/2.5"	1/3.2"
Effective pixel (MP)	2	3.2	5	8
Resolution	1920x1080	2048x1536	2592x1944	3264x2448
Frame Rate (Full Res)	30 (MJPEG)	22 (MJPEG)	22 (MJPEG)	15 (MJPEG)
FPS at Sub-Sample	30 (SXGA)	30 (SXGA)	60 (SXGA)	30 (SXGA)
Shutter	Rolling	Rolling	Half Global	Half Global
Output Format	YUY2 / MJPEG	YUY2 / MJPEG	YUY2 / MJPEG	YUY2 / MJPEG
Exposure Time (Freerun)	0.07 - 207ms	0.07 - 207ms	0.07 - 207ms	TBD
Sensor D/R Level	76dB	72.4dB	70dB	66dB
Pixel Size (µm)	3x3	2.2x2.2	2.2x2.2	1.4x1.4
Imaging Area (mm)	5.76x3.24	4.50x3.38	5.70x4.28	4.57x3.42
Sub-Sampling Modes (Binning or Skipping)	1920x1080 1280X1024 1280x720 1024X768 800X600 640X480 320x240	2048X1536 1920x1080 1600X1200 1280x1024 1280x720 1024X768 800X600 640X480	2592X1944 2048X1536 1920x1080 1280X960 1280X720 1024X768 800X600 640X480	3264x2448 TBD
Housing Size	43 x 42 x 53mm			
Dynamic Range	ADC:10bits ; Output: 8bits per Channel			
USB Version	USB2.0			
Lens Mount	C / CS Mount			
Power Supply	<1.5 Watt			
Operation Temperature	0° - 60° Celsius			
Operating Humidity	80 % non-condensing			

All specifications are subject to change without notice