

It's so easy

uEye® CMOS Cameras with memory



USB2.0 / USB1.1 CMOS Cameras with memory

**Monochrome or Colour with Global or Rolling Shutter
for Machine Vision and Medical Applications
The easiest way to go digital**

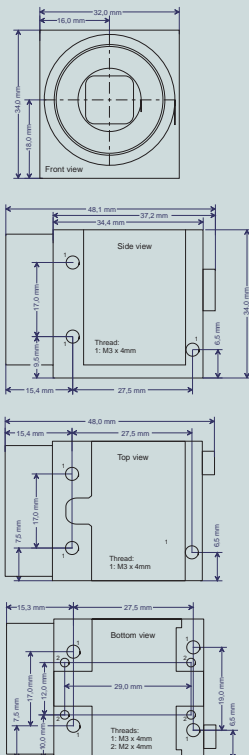


www.net-usa-inc.com

- 640 x 480 pixel (VGA) up to 2048 x 1536 (QXGA)
- High quality CMOS sensors with square pixels, Global or Rolling Shutter
- Up to 55 frames/s in full frame mode, over 100 frames/s using Area of Interest (AOI)
- 4MB internal memory for storing images
- External, universal trigger input, digital flash strobe output
- uEye SDK (compatible to the FALCON SDK) and demo programs in scope of supply
- C-Mount
- Small size and less weight: 34 x 32 x 34,4 mm (HxWxD), 74g
- Camera control via USB 2.0
- Mini-B USB AND screwable Micro D-SUB connector for industrial use
- Driver and Interfaces: Twain, ActiveX, Direct Show (WDM), ActivVisionTools, Common Vision Blox, HALCON and NeuroCheck
- OEM modules available



USB2.0 Camera



CAMERA SPECIFICATIONS						
	UI-1210-MM/CM	UI-1410-MM/CM	UI-1440-MM/CM	UI-1540-MM/CM	UI-1450-CM	UI-1460-CM
Resolutions (pixels)	640x480	640x480	1280x1024	1280x1024	1600x1200	2048x1536
M - Model (Monochrom)	Yes				No	
C - Model (Colour)	Bayer RGB Pattern					
Chip type / Chipsize	1/2 Zoll/8 mm	1/3 Zoll/6 mm	~1/1.8 Zoll / 10mm	1/2 Zoll/8 mm	1/2 Zoll/8 mm	1/2 Zoll/8 mm
Cell size (HxV) in μm	9,9 x 9,9	7,5 x 7,5	6 x 6	5,2 x 5,2	4,2 x 4,2	3,2 x 3,2
Shutter	Global		Rolling			
Scanning System	Progressive Scan					
Sensor dynamics	60 dB	62 dB	57 dB	68 dB	61 dB	61 dB
Frames per second	55	35	16,5	25	16	10
Memory	4MB					
Storable images in maximum resolution	13	13	3	3	2	1
Binning	No	No	No	No	No	hor. & vert.
Subsampling	No	hor. & vert.	hor. & vert.	hor. & vert.	hor. & vert.	hor. & vert.
AOI	hor. & vert.	hor. & vert.	hor. & vert.	hor. & vert.	hor. & vert.	hor. & vert.
Pixel Clock Frequency (Min/Max/Step width)	5/20/1 MHz	5/14/1 MHz	12/27/1 MHz	8/45/1 MHz	8/42/1 MHz	8/42/1 MHz
Shutter speed	67 μs - 64,4ms	56 μs - 79,8ms	54 μs - 136ms	27 μs - 224ms	368 μs - 327ms	464 μs - 521ms
Hardware Gain	1-18dB	0-29 dB	0-5dB global	0-12db	0-12db	0-12db
Hardware Trigger	asynchronous	asynchronous	synchronous	asynchronous	asynchronous	asynchronous
Lens mount	C-Mount					
IR filter	Yes, removable					
Interface	USB 1.1, USB 2.0					
Power supply	< 2 Watt	< 2 Watt	< 2 Watt	< 2.5 Watt	< 2.5 Watt	< 2.5 Watt
Operating temperature	0° - 50° Celsius					
Regulations	CE, FCC Class A					
Size (HxWxD)	34 x 32 x 34,4 mm without C-mount					
Weight	74 g					



uEye Micro D-SUB connector Description

Pin	Assignment
1	Flash Strobe output -
2	Trigger input +
3	Shield
4	USB +5V
5	USB GND
6	Flash Strobe output +
7	Trigger input -
8	USB D+
9	USB D-

The uEye CMOS cameras are ultra compact cameras with USB 2.0 interface for industrial use. They are equipped with high quality sensors, industrial Design, C-Mount, a standard USB and additionally a screwable USB interfaces which offers also the trigger and digital output. Ready for professional use.

With it's USB 2.0 architecture, the cameras are ideally suited for use with PC, Notebook and Embedded Systems in image processing and factory automation.

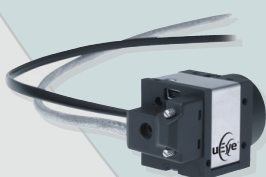
The powerful -free of charge- uEye SDK and the yet available drivers and Interfaces for popular machine vision software allow easy integration in applications. It's so easy!

AVAILABLE DRIVER AND INTERFACES

Windows 2000 und XP: uEye SDK, TWAIN, ActiveX, Direct Show (WDM), ActivVisionTools, Common Vision Blox, HALCON, NeuroCheck. Linux: uEye SDK in preparation.

ACCESSORIES:

- USB cable
- Lenses
- USB2.0 Interfaces
- Software



The uEye cameras on the internet: www.net-usa-inc.com