

It's so easy

uEye®

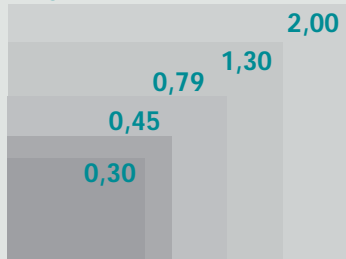


USB2.0 Camera

for Machine Vision and
Medical Imaging Applications

Your Eye in Machine Vision

Megapixel (CCD)



Megapixel (CMOS)



uEye memory models

have additional 4 MB internal memory. This allows us to store up to 13 frames in full resolution.

Sequencing: The memory equipped camera can store single images or sequences up to 64 frames.

Continuous: The images can go through the memory also in free run mode. This assures a safe transmission on high bus loads.

Multiple cameras: With the memory buffer, it is possible to record image sequences of different cameras simultaneously. The readout will be sequentially.

Pre/Post Trigger: With a trigger signal, the images before or after the trigger pulse can be stored alternatively.

USB 1.1 Support: Recording and transmission are decoupled. With this feature, the cameras can also run at USB 1.1



Unique: the uEye Software Development Kit (SDK)

The extensive and high performance SDK is a key feature of the uEye camera family. With it, all parameters of the camera can be controlled.

Memory management of ring buffering and double buffering management are also well integrated as the Direct Draw interface for flexible display of the video images and storage of image sequences. The SDK offers at present 90 functions for ideal image capturing and camera control.

Along with SDK demo-programs in C/C++ source code, the supplied software also contains other useful programs. These inform about the status of the connected cameras (uEye Info) or the functional range of the SDK (uEye Demo). The uEye Demo is also included in the source code and offers the programmer an easy way to get started.



FALCON compatibility

The uEye software development kit (SDK) is compatible to our own popular frame grabber – the FALCON. This allows easy migration to digital technology with the least possible programming effort. Customers speak of migration times between 1-3 days.

TWAIN, ActiveX and WDM

If you prefer to use standard acquisition software interfaces the products include also a TWAIN, a Direct Show (WDM) driver and an ActiveX control.



Image processing interfaces

Users of image processing software can use existing interfaces to integrate cameras with all their functions. The following are currently supported directly:

- | | |
|------------|--------------------|
| MVTec | ActivisionTools |
| | HALCON |
| NeuroCheck | NeuroCheck |
| Stemmer | Common Vision Blox |
- Other interfaces are in preparation.

Support

Qualified support engineers are available to help and assist you with integrating the cameras.

Quick overview:

	Model	Resolution	Equivalent	Mpx	Frames/s	Sensor	Shutter	Trigger	Colour	Memory	Size	Weight
	UI-1210-M/C	640 x 480	VGA	0,30	55	1/2" CMOS	Global	asynchronous	M Modell - monochrome C Modell - Bayer Pattern	-	1	1
	UI-1210-MM/CM	640 x 480	VGA	0,30	55	1/2" CMOS	Global	asynchronous	M Modell - monochrome C Modell - Bayer Pattern	4MB	2	2
	UI-1410-M/C	640 x 480	VGA	0,30	30	1/3" CMOS	Rolling	asynchronous	M Modell - monochrome C Modell - Bayer Pattern	-	1	1
	UI-1410-MM/CM	640 x 480	VGA	0,30	30	1/3" CMOS	Rolling	asynchronous	M Modell - monochrome C Modell - Bayer Pattern	4MB	2	2
	UI-2310-C	640 x 480	VGA	0,30	75	1/4" CCD	Global	*	M Modell - monochrome C Modell - Bayer Pattern	-	2	2
	UI-2210-M/C	640 x 480	VGA	0,30	75	1/2" CCD	Global	*	M Modell - monochrome C Modell - Bayer Pattern	-	2	2
	UI-1220-M/C	752 x 480	WVGA	0,36	68	1/2" CMOS	Global	-	M Modell - monochrome C Modell - Bayer Pattern	-	1	1
	UI-2220-M/C	768 x 582	CCIR/PAL	0,45	50	1/2" CCD	Global	*	M Modell - monochrome C Modell - Bayer Pattern	4MB	2	2
	UI-2230-M/C	1024 x 768	XGA	0,79	25	1/3" CCD	Global	*	M Modell - monochrome C Modell - Bayer Pattern	-	2	2
	UI-1440-M/C	1280 x 1024	SXGA	1,30	16,5	~1/1.8" CMOS	Rolling	synchronous	M Modell - monochrome C Modell - Bayer Pattern	-	1	1
	UI-1440-MM/CM	1280 x 1024	SXGA	1,30	16,5	~1/1.8" CMOS	Rolling	synchronous	M Modell - monochrome C Modell - Bayer Pattern	4MB	2	2
	UI-1540-M/C	1280 x 1024	SXGA	1,30	25	1/2" CMOS	Rolling	asynchronous	M Modell - monochrome C Modell - Bayer Pattern	-	1	1
	UI-1540-MM/CM	1280 x 1024	SXGA	1,30	25	1/2" CMOS	Rolling	asynchronous	M Modell - monochrome C Modell - Bayer Pattern	4MB	2	2
	*UI-2240-M/C	1280 x 1024	SXGA	1,30	15	1/2" CCD	Global	*	M Modell - monochrome C Modell - Bayer Pattern	-	2	2
	UI-1450-C	1600 x 1200	UXGA	2,00	16	1/2" CMOS	Rolling	asynchronous	C Modell - Bayer Pattern	-	1	1
	UI-1450-CM	1600 x 1200	UXGA	2,00	16	1/2" CMOS	Rolling	asynchronous	C Modell - Bayer Pattern	4MB	2	2
	*UI-2250-M/C	1600 x 1200	UXGA	2,00	12	~1/1.8" CCD	Global	*	M Modell - monochrome C Modell - Bayer Pattern	-	2	2
	UI-1460-C	2048 x 1536	QXGA	3,10	10	1/2" CMOS	Rolling	asynchronous	C Modell - Bayer Pattern	-	1	1
	UI-1460-CM	2048 x 1536	QXGA	3,10	10	1/2" CMOS	Rolling	asynchronous	C Modell - Bayer Pattern	4MB	2	2
All Cameras:												
External Trigger	USB 2.0 (Memory models also USB 1.1)											
Digital interface	Size 1: 34 x 32 x 27,4 mm											
Size (HxWxD)	Size 2: 34 x 32 x 34,4 mm											
	Size 3: 34 x 32 x 41,4 mm											
Weight	Size 1: 62g / OEM 32g											
	Size 2: 74g / OEM 50g											
	Size 3: 85g / OEM 68g											
Lens mount	C-Mount											

* in preparation

DELIVERY:

- uEye Camera
- Installation CD for Windows XP, 2000 and Linux with Drivers, Demo programs, Tools and Documentation

SYSTEM REQUIREMENTS:

- PC System with 1,5 GHz , 256MB Memory
- Operating system: Windows 2000 with Sp4 / Windows XP with Sp2
- AGP graphics with at least 32MB video memory and Direct Draw support
- USB 2.0 interface (on Board USB2.0 recommended)

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