

USB3 uEye XC

Automatically Perfect Pictures!



The IDS X Series - High resolution auto focus cameras

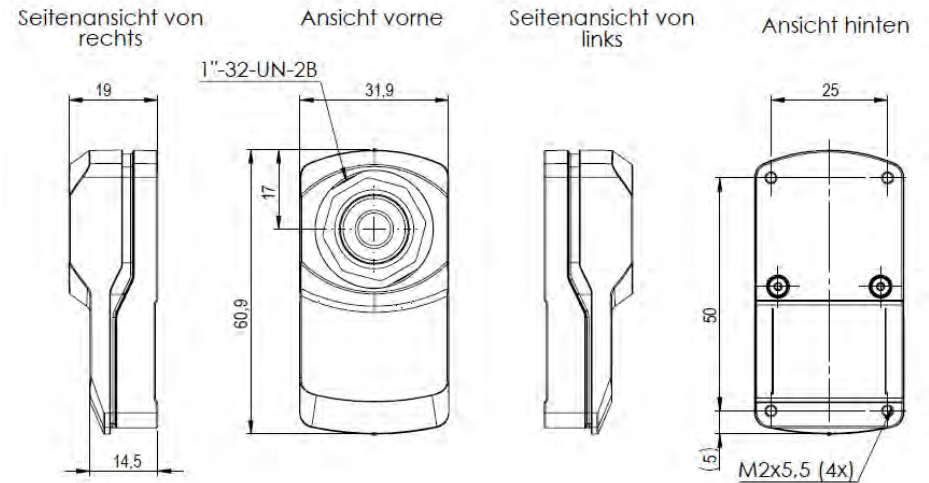


- USB 3.0
- 13 MP
- FULL HD WITH 30 FPS
- AF AUTOFOCUS
- AUTO IMAGE
- 16 DIGITAL ZOOM
- BACKLIGHT COMPENSATION
- FACE DETECTION
- iDS SOFTWARE SUITE
- VIDEO CLASS STANDARD

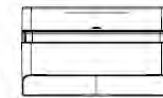
2. USB3 uEye XC Mechanical Specifications - Housing



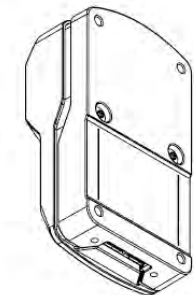
- **Material**
 - Magnesium (starting June 2015)
- **Dimension**
 - H: 19.0 mm
 - W: 31.9 mm
 - L: 60.9 mm
- **Connector**
 - Screwable Micro B Connector
- **Mass**
 - 42.0 g
- **Accessories:**
 - Tripod adapter



Ansicht oben



Ansicht schräg unten



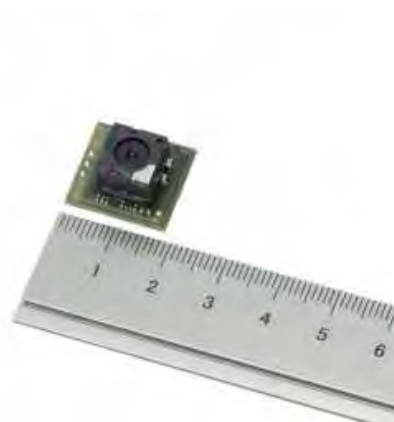
2. USB3 uEye XC

Sensor data

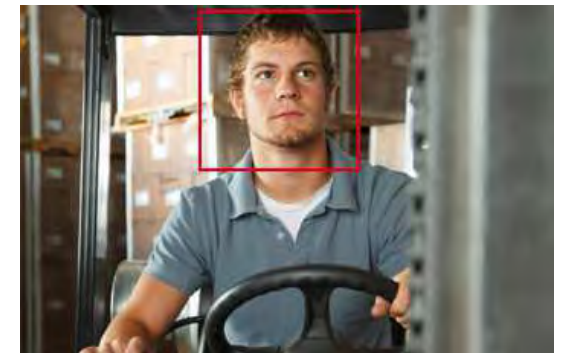


Cbboard Image Processing

UI-3013XC	
Sensor type	CMOS
Shutter	Rolling shutter
Sensor name	Sony FCB-MA130
Resolution	4216 x 3160 Px – 13 MPx
Optical sensor diag.	7.36mm, 1/2.17"
Pixel size	1.4µm, square
Max fps	30 fps in Full HD (1920 x 1080)
Output format	YUV

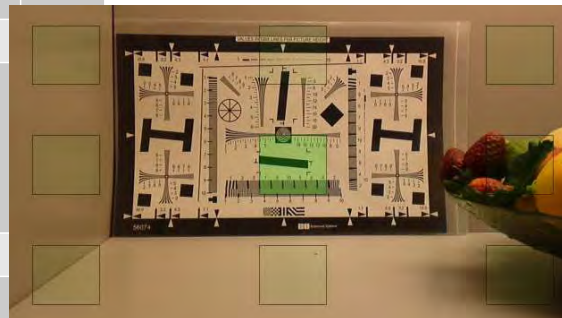


Face detection



Lens facts		
Angle of View - horizontal	4192 x 3104 Px (13 MPx)	57°
	1920 x 1080 (Full HD)	52°
F	1/2.8	
Filter	IR filter integrated	
Autofocus	Piezo motor WD: 100mm - ∞ Spot measurement in 1 of 9 areas Also manual focus	
Changeable lenses	Planned	
API-Fuction	is_Focus()	

Integrated lens



Face detection

Enable

Search angle: 0 Number of marked faces: 8

Max. number of detected faces: 8 Number of detected faces: 2

Posture	Angle	X	Y	Width	Height
😊 4	0	240	152	336	336
😊 6	0	872	124	100	100

Overlay width: 2 / 16

Default Close

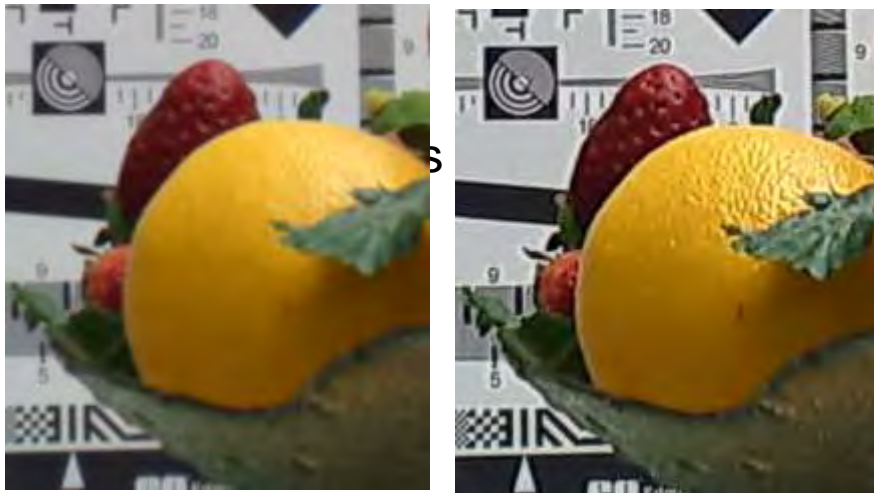
2. USB3 uEye XC Onboard Image Processing



Sharpness

- for fine details

Noise reduction



Automatic Features

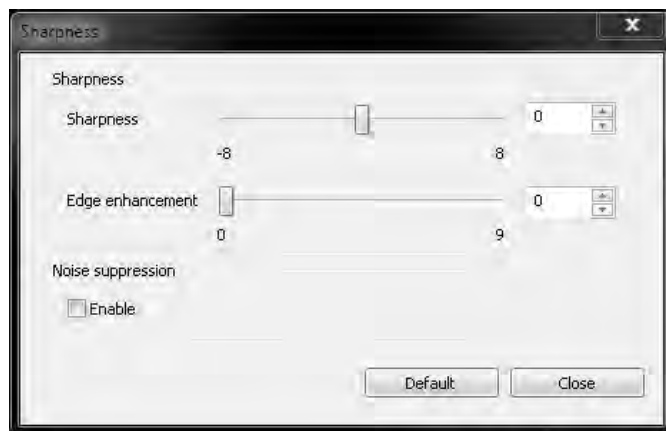
White balance

Exposure

Gain

Backlight

Anti Shake / Image Stabilisation



2. USB3 uEye XC Onboard Image Processing

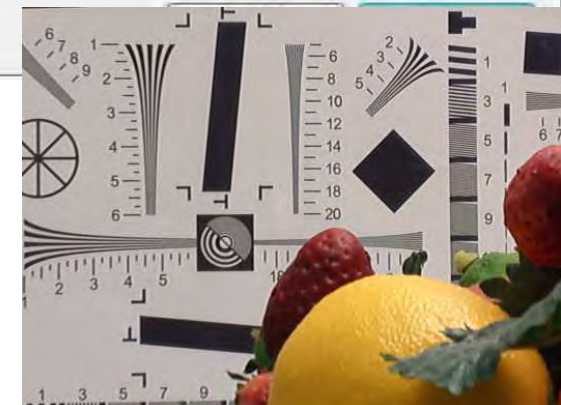
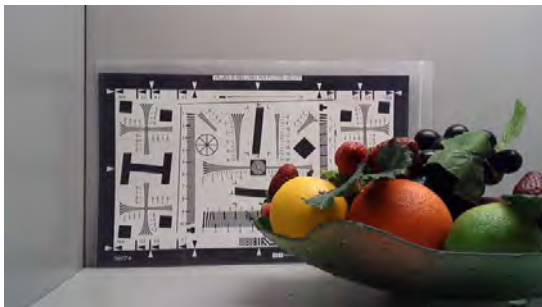
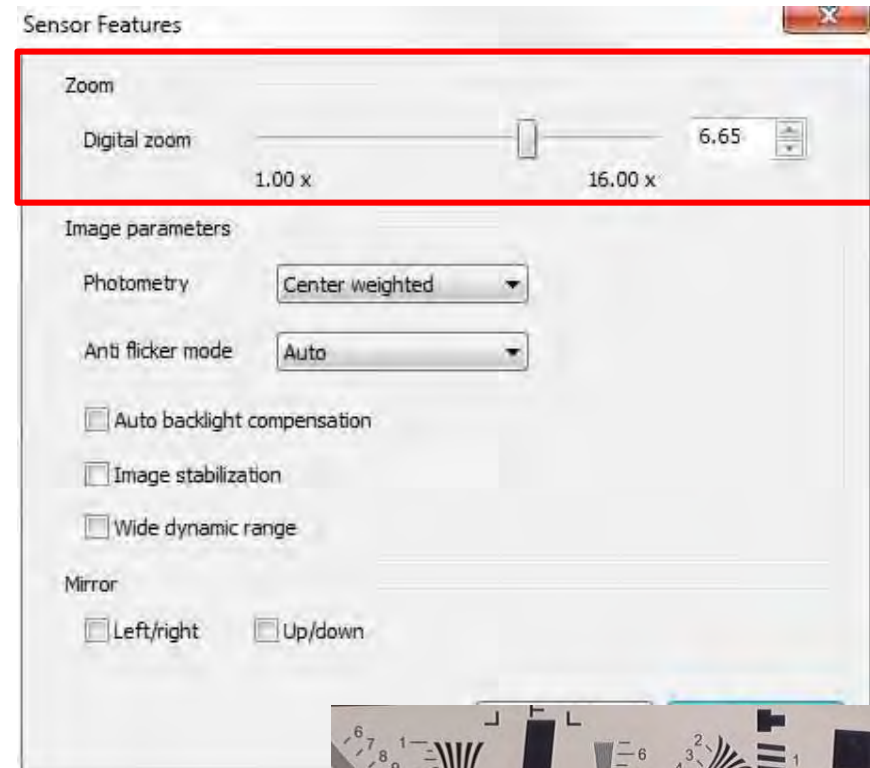


2. USB3 uEye XC Onboard Image Processing



Zoom factor:

- 1.0x – 16.0x
- Get a smaller viewing angle with the same lens
- Useful in live mode
- More perfect in still image mode
- API function: `is_Zoom()`

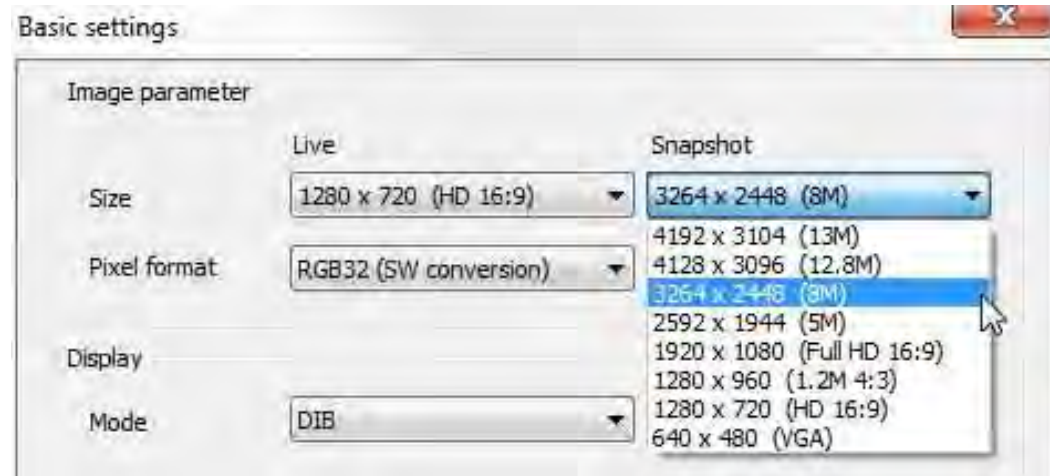


2. USB3 uEye XC FPS and resolution



- Internal scaler for lower

Live video – 30 fps	Still image
640 x 480	640 x 480 (VGA)
800 x 600	1280 x 720 (HD)
1024 x 960	1280 x 960 (1.2M)
1280 x 960	2592 x 1944 (3M)
1600 x 1200	3264 x 2448 (8M)
1920 x 1080 (FHD)	4128 x 3096
	4192 x 3104 (13M)



05/2013: XS2	02/2015: XC
23.0 x 26.5 x 21.5 mm	19.0 x 31.9 x 60.9 mm
Weight: 12 gram	Weight: 42 gram
5 MP single images	13 MP single images
5 MP live video (2048p15)	2 MP live video (1080p30)
RAW / YUV / MJPEG	YUV
AF from 10 cm	AF from 10 cm
USB 2.0 only	USB 3.0 only
-	Face detection
-	Anti Shake

Comparison – XS and XC



2. USB3 uEye XC Applications and markets

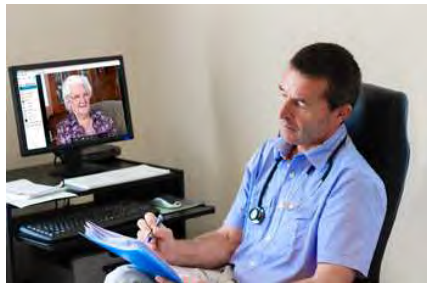
iDS



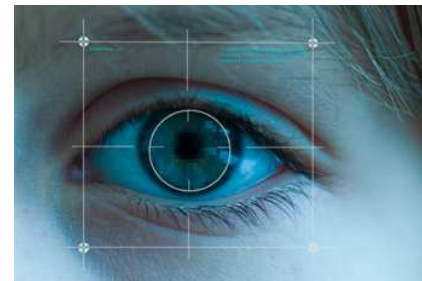
Kiosk systems



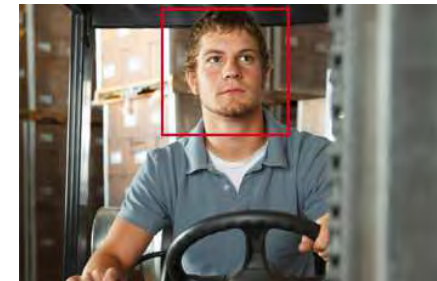
Logistics



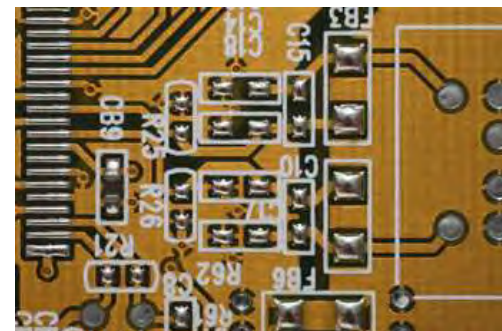
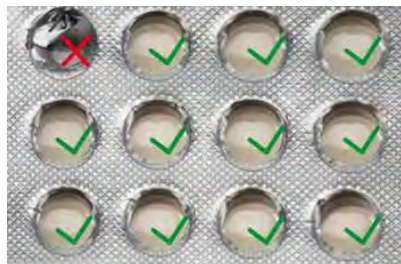
Medicine



Access control & biometry



Quality assurance



Optical inspection of circuit boards