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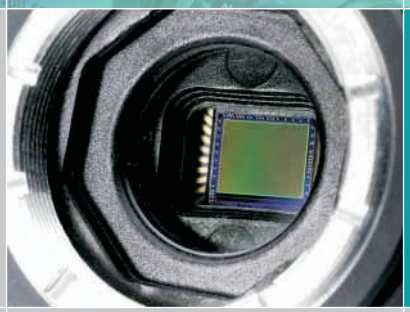
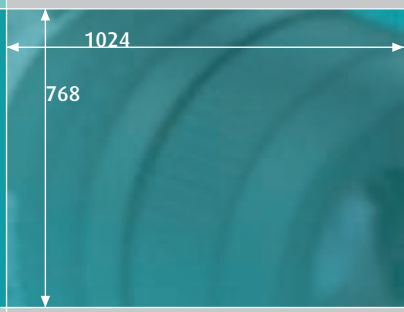




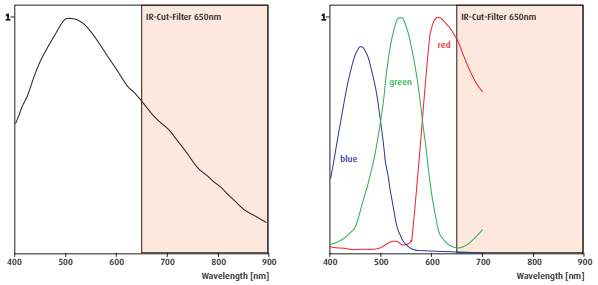
Gigabit Ethernet uEye® UI-6230-C/M

XGA Camera with 1/3" CCD Sensor

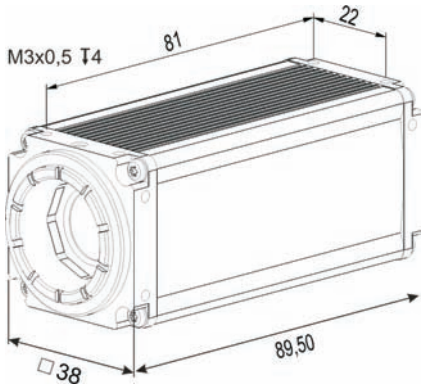
Gigabit Ethernet uEye®
UI-6230-M / UI-6230-C

The Gigabit Ethernet uEye® family

The Gigabit Ethernet uEye® extends the broad range of USB cameras by powerful models for sophisticated, complex machine vision and image processing applications. The bandwidth is 2.5 times higher than with USB and cable lengths up to 100 m are possible.



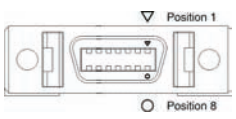
Sensor characteristics UI-6230-M UI-6230-C



Dimensions of the Gigabit Ethernet uEye® models

Pin assignment MDR14 Multi I/O connector

Pin	Notation	Description
1	GND	Ground
2	VCC	Power supply
3	TriggerGND	Trigger ground (potential-free)
4	TriggerIN	Trigger input (potential-free)
5	FlashOut	Flash output (potential-free)
6	Vext	External flash power supply (potential-free)
7	GND	Ground
8	GND	Ground
9	VCC	Power supply
10	GPIO1	General Purpose I/O 1 (not potential-free)
11	GPIO2	General Purpose I/O 2 (not potential-free)
12	RxD	RS232 RxD (not potential-free)
13	TxD	RS232 TxD (not potential-free)
14	GND	Ground



Power supply: 6 - 24V (12V recommended)

Connectors of the Gigabit Ethernet uEye® models

The characteristics at a glance

Interface	Gigabit Ethernet
Sensor Technology	CCD (Sony)
Model description (color)	UI-6230-C
Model description (Mono)	UI-6230-M
Resolution (h x v)	1024 x 768
Resolution Category / Pixel Class	XGA
Sensor size	1/3"
Shutter	Global
max. fps in Freerun Mode at full resolution	30 fps
max. fps in SW Trigger Mode at 1 ms exposure	27 fps
Exposuretime in Freerun Mode	66 µs - 1 s
Exposuretime in Trigger Mode	66 µs - 10 min
AOI Modes	H + V²
AOI with 320 x 240 Pixels (CIF)	78 fps
Subsampling Modes	-
Subsampling Factors	-
Resolution, fps	-
Binning Modes	V² (Mono)
Binning Method	V: Sum
Binning Factors	x2, x4
Resolution, fps	1024 x 384, 53 fps 1024 x 192, 85 fps
Mono: Maximum Gain	10,4x
Color: Maximum Gain RGB/Master	4x /7,5x
Additional Gain Boost with Factor	2x (Mono)
Sensor Model	ICX204
Pixel Clock	5 - 30 MHz
Pixelpitch in µm	4,65
Full Well Capacity	12.000 e-
Optical Size	4,76 x 3,57 mm
Aspect Ratio	4:3
Exact Real Diagonal	6,0 mm, 1/2,7"

In scope of delivery:

Powerful, easy to handle uEye SDK
uEye Demo and Programexamples executable and Source Code.
uEye Camera Manager
TWAIN, Active-X and Direct Show (WDM) drivers
Interfaces for ActivVision Tools, Common Vision Blox, HALCON, LabVIEW and Neurocheck
GenICam™ Interface*

Driver for Windows 2000*, XP, VISTA* and Linux*

² = Use increases frame rate

* = in preparation (end of 2007)

1288 EMVA Standard Compliant