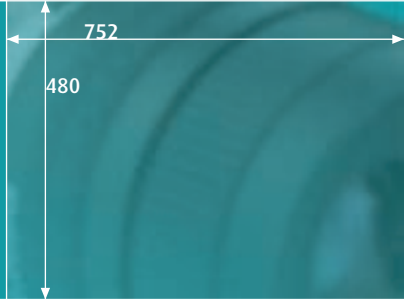
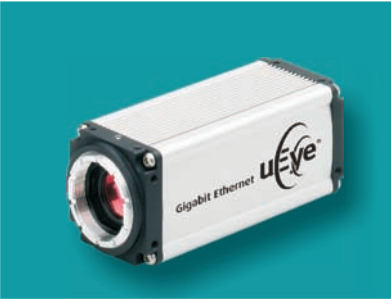
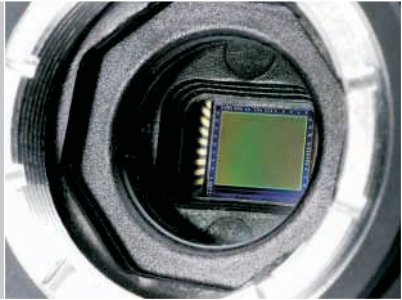




iDS



Gigabit Ethernet uEye[®] UI-5220-C/M

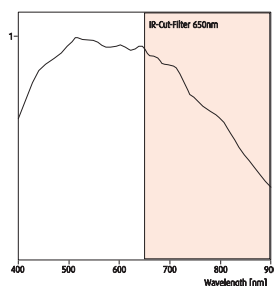
WVGA Camera with 1/3" CMOS Global Shutter Sensor

Gigabit Ethernet uEye® UI-5220-M / UI-5220-C

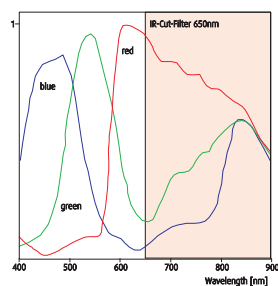


The Gigabit Ethernet uEye® family

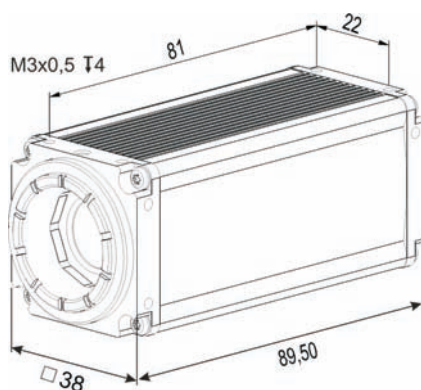
The Gigabit Ethernet uEye® extends the broad range of USB cameras by powerful models for sophisticated, complex machine vision and image processing applications. The bandwidth is 2.5 times higher than with USB and cable lengths up to 100 m are possible.



Sensor characteristics UI-5220-M



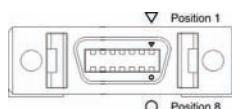
UI-5220-C



Dimensions of the Gigabit Ethernet uEye® models

Pin assignment MDR14 Multi I/O connector

Pin Notation	Description
1	GND
2	VCC
3	TriggerGND
4	TriggerIN
5	FlashOut
6	Vext
7	GND
8	GND
9	VCC
10	GPIO1
11	GPIO2
12	RxD
13	TxD
14	GND



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

Connectors of the Gigabit Ethernet uEye® models

The characteristics at a glance

Interface	Gigabit Ethernet
Sensor Technology	CMOS
Model description (color)	UI-5220-C
Model description (Mono)	UI-5220-M
Resolution (h x v)	752 x 480
Resolution Category / Pixel Class	WVGA
Sensor size	1/3"
Shutter	Global
max. fps in Freerun Mode at full resolution	100 fps
max. fps in SW Trigger Mode at 1 ms exposure	75 fps
Exposuretime in Freerun Mode	70 µs - 5,5 s
Exposuretime in Trigger Mode	70 µs - 5,5 s
AOI Modes	H ² + V ²
AOI with 320 x 240 Pixels (CIF)	231 fps
Subsampling Modes	-
Subsampling Factors	-
Resolution, fps	-
Binning Modes	H ² + V ² (Mono)
Binning Method	H + V: Average
	x2, x4
Binning Factors	368 x 240, 185 fps
Resolution, fps	176 x 120, 328 fps
Mono: Maximum Gain	4x
Color: Maximum Gain RGB/Master	5x (SW)/4x
Additional Gain Boost with Factor	1,6x
Sensor Model	MT9V022
Pixel Clock	5 - 46 MHz
Pixelpitch in µm	6,0
Full Well Capacity	30.000 e-
Optical Size	4,51 x 2,88 mm
Aspect Ratio	14:9
Exact Real Diagonal	5,4 mm, 1/3,0"

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 Activision Tools,
Common Vision Blox, HALCON,
LabVIEW and Neurocheck
GenICam™ Interface*

* = Use increases frame rate

** = in preparation (end of 2007)

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

