



adept electronic

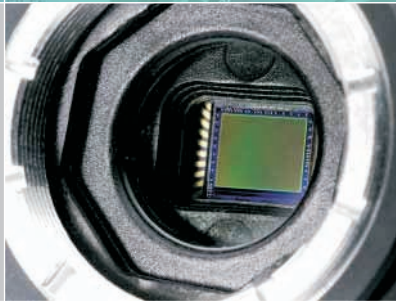
adept electronic solutions

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iDS



2560
1920

Gigabit Ethernet uEye® UI-5480-C/M

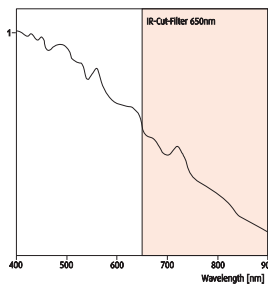
5 Mega pixels QSXGA Camera with 1/2" CMOS Sensor

Gigabit Ethernet uEye® UI-5480-C/M



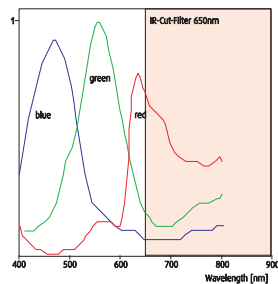
The Gigabit Ethernet uEye® family

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.

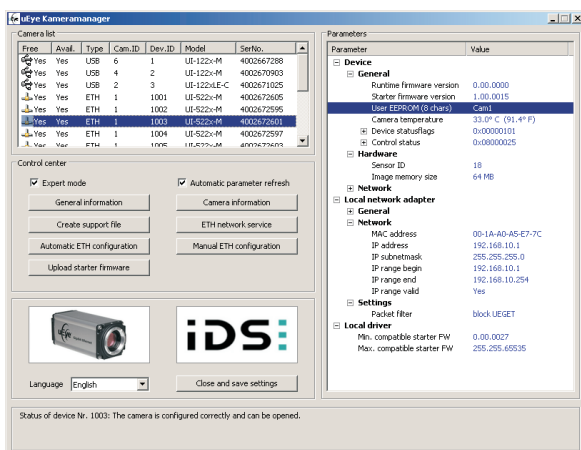


Sensor characteristics

UI-5480-M

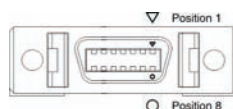


UI-5480-C



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 VextL	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	CMOS
Model description (color)	UI-5480-C
Model description (Mono)	UI-5480-M
Resolution (h x v)	2560 x 1920
Resolution Category / Pixel Class	Q SXGA/5 MP
Sensor size	1/2"
Shutter	Rolling/Global Start
max. fps in Freerun Mode at full resolution	15 fps
max. fps in SW Trigger Mode at 1 ms exposure	13,8 fps
Exposuretime in Freerun Mode	31 µs - 2,7 s
Exposuretime in Trigger Mode	31 µs - 2,7 s
AOI Modes	H ² + V ²
AOI with 640 x 480 Pixels	126 fps
Subsampling Modes	H ² + V ²
Subsampling Factors	x2, x4
Resolution, fps	1280 x 960, 55 fps 640 x 480, 156 fps
Binning Modes	H ² + V ²
Binning Method	H: Sum V: Average
Binning Factors	x2, x4
Resolution, fps	1280 x 960, 43 fps 640 x 480, 68 fps
Mono: Maximum Gain	30x
Color: Maximum Gain RGB/Master	6,5x/12x
Additional Gain Boost with Factor	1,6x
Sensor Model	MT9P031
Pixel Clock	5 - 103/128 MHz
Pixelpitch in µm	2,2
Full Well Capacity	12.000 e-
Optical Size	5,63 x 4,22 mm
Aspect Ratio	4:3
Exact Real Diagonal	7,0 mm, 1/2,3"

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*

Driver for Windows 2000, XP, VISTA
and Linux*

* = Use increases frame rate

** = in preparation