



adept electronic

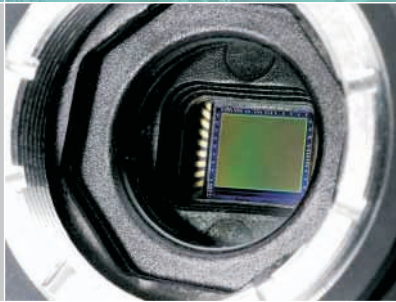
adept electronic solutions

The Machine Vision and Imaging Specialists

Perth: +61 (08) 9242 5411
Sydney: +61 (02) 9979 2599
Melbourne: +61 (03) 9555 5621
Email: adept@adept.net.au
Web: <http://www.adept.net.au>



iDS



Gigabit Ethernet uEye[®] UI-6220-C/M

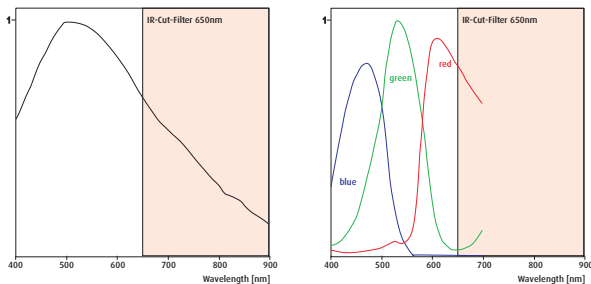
CCIR Camera with 1/2" CCD Sensor

Gigabit Ethernet uEye® UI-6220-M / UI-6220-C



The Gigabit Ethernet uEye® family

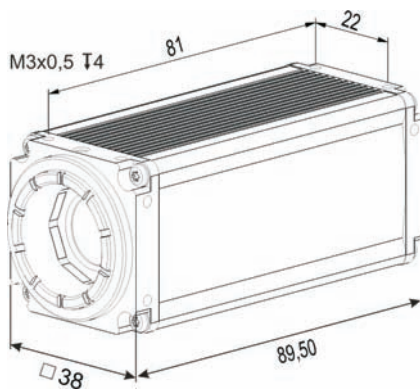
The Gigabit Ethernet uEye® extends the broad range of USB cameras by powerful models for sophisticated, complex machine vision and image processing applications. The bandwidth is 2.5 times higher than with USB and cable lengths up to 100 m are possible.



Sensor characteristics

UI-6220-M

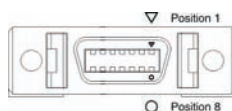
UI-6220-C



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 | CCD (Sony) |
| Model description (color) | UI-6220-C |
| Model description (Mono) | UI-6220-M |
| Resolution (h x v) | 768 x 576 |
| Resolution Category / Pixel Class | CCIR |
| Sensor size | 1/2" |
| Shutter | Global |
| max. fps in Freerun Mode at full resolution | 52 fps |
| max. fps in SW Trigger Mode at 1 ms exposure | 47 fps |
| Exposuretime in Freerun Mode | 50 µs - 770 ms |
| Exposuretime in Trigger Mode | 50 µs - 10 min |
| AOI Modes | H + V ² |
| AOI with 320 x 240 Pixels (CIF) | 97 fps |
| Subsampling Modes | - |
| Subsampling Factors | - |
| Resolution, fps | - |
| Binning Modes | V ² (Mono) |
| Binning Method | V: Sum |
| Binning Factors | x2, x4 |
| Resolution, fps | 768 x 288, 90 fps 768 x 144, 143 fps |
| Mono: Maximum Gain | 14x |
| Color: Maximum Gain RGB/Master | 4x /8,9x |
| Additional Gain Boost with Factor | 2x (Mono) |
| Sensor Model | ICX415 |
| Pixel Clock | 5 - 30 MHz |
| Pixelpitch in µm | 8,3 |
| Full Well Capacity | 25.000 e- |
| Optical Size | 6,37 x 4,78 mm |
| Aspect Ratio | 4:3 |
| Exact Real Diagonal | 8,0 mm, 1/2,0" |

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*

² = Use increases frame rate
* = in preparation (end of 2007)

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

