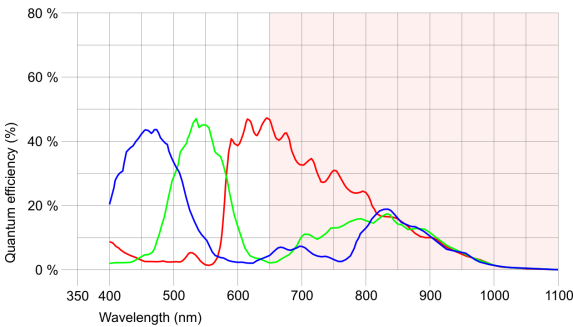# iDS:

## UI-3370CP-C-HQ (AB00227)

> ■ **In series**
> The model is in series and available for the long term.



uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. Learn about the process here and switch now.
Please note: The technical data given here was measured using the IDS Software Suite.

## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Color |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Readout mode | Progressive scan |
| Pixel Class | 4 MP |
| Resolution | 4.19 Mpix |
| Resolution (h x v) | 2048 x 2048 Pixel |
| Aspect ratio | 1:1 |
| ADC | 12 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1"" |
| Optical Size | 11.264 mm x 11.264 mm |
| Optical sensor diagonal | 15.93 mm (1/1") |
| Pixel size | 5.5 µm |
| Manufacturer | ams/CMOSIS |
| Sensor Model | CMV4000-3E5C |
| Gain (master/RGB) | 4x/4x |
| AOI horizontal | same frame rate |
| AOI vertical | increased frame rate |
| AOI image width / step width | 16 / 4 |
| AOI image height / step width | 48 / 2 |
| AOI position grid (horizontal/vertical) | 2 / 2 |
| Binning horizontal | - |
| Binning vertical | - |
| Binning method | - |
| Binning factor | - |
| Subsampling horizontal | same frame rate |
| Subsampling vertical | same frame rate |
| Subsampling method | M/C automatic |
| Subsampling factor | 2, 4, 6, 8 |



Subject to technical modifications (2024-04-26)

www.ids-imaging.com

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## Model

| | |
|---|---|
| Pixel clock range | 38 MHz - 344 MHz |
| Frame rate freerun mode | 80 |
| Frame rate trigger (maximum) | 80 |
| Exposure time (minimum - maximum) | 0.038 ms - 500 ms |
| Power consumption | 1.7 W - 2.5 W |
| Special features | Overlap trigger, Dual exposure, Sensor source gain, Multi-AOI |

## Ambient conditions

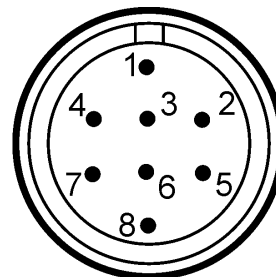The temperature values given below refer to the outer device temperature of the camera housing.

| | |
|---|---|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Device temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

## Connectors

| | |
|---|---|
| Interface connector | USB 3.0 micro-B, screwable |
| I/O connector | 8-pin Hirose connector (HR25-7TR-8PA(73)) |
| Power supply | USB cable |

## Pin assignment I/O connector

| | |
|---|---|
| 1 | Ground (GND) |
| 2 | Flash output with optocoupler (-) |
| 3 | General Purpose I/O (GPIO) 1 |
| 4 | Trigger input with optocoupler (-) |
| 5 | Flash output with optocoupler (+) |
| 6 | General Purpose I/O (GPIO) 2 |
| 7 | Trigger input with optocoupler (+) |
| 8 | Output supply voltage, 5 V (100 mA) |

Camera rear view

## Design

| | |
|---|---|
| Lens Mount | C-Mount |
| IP code | IP30 |
| Dimensions H/W/L | 29.0 mm x 29.0 mm x 29.0 mm |
| Mass | 44 g |