

In series

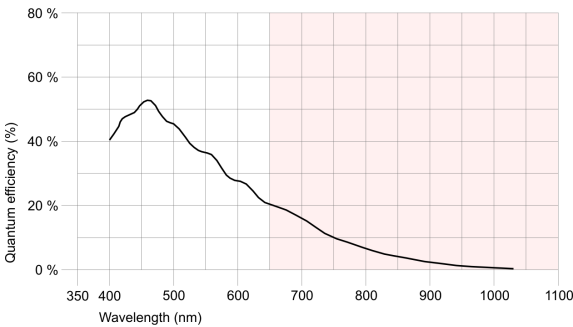
The model is in series and available for the long term.



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 Mono            |
| Shutter                                 | Rolling shutter      |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 10 MP                |
| Resolution                              | 10.55 Mpix           |
| Resolution (h x v)                      | 3840 x 2748 Pixel    |
| Aspect ratio                            | 4:3                  |
| ADC                                     | 12 bit               |
| Color depth (camera)                    | 8 bit                |
| Optical sensor class                    | 1/2"                 |
| Optical Size                            | 6.413 mm x 4.589 mm  |
| Optical sensor diagonal                 | 7.89 mm (1/2.03")    |
| Pixel size                              | 1.67 µm              |
| Manufacturer                            | Onsemi               |
| Sensor Model                            | MT9J003STM           |
| Gain (master/RGB)                       | 8.5x/-               |
| AOI horizontal                          | increased frame rate |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 448 / 4              |
| AOI image height / step width           | 4 / 2                |
| AOI position grid (horizontal/vertical) | 4 / 2                |
| Binning horizontal                      | increased frame rate |
| Binning vertical                        | increased frame rate |
| Binning method                          | Color                |
| Binning factor                          | 2                    |
| Subsampling horizontal                  | increased frame rate |
| Subsampling vertical                    | increased frame rate |
| Subsampling method                      | Color                |
| Subsampling factor                      | 2, 4                 |



Subject to technical modifications (2024-04-16)

## Model

|                                   |                     |
|-----------------------------------|---------------------|
| Pixel clock range                 | 5 MHz - 36 MHz      |
| Frame rate freerun mode           | 3.2 fps             |
| Frame rate trigger (maximum)      | 3.2 fps             |
| Exposure time (minimum - maximum) | 0.340 ms - 14582 ms |
| Power consumption                 | 0.5 W - 1.3 W       |

## Ambient conditions

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

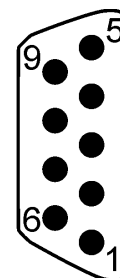
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity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

## Connectors

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Interface connector | USB 2.0 mini-B, screwable                           |
| I/O connector       | 9-pin micro D-Sub socket (MPE Garry 11-0021-50-09L) |
| Power supply        | USB cable                                           |

## Pin assignment I/O connector

|   |                                    |
|---|------------------------------------|
| 1 | Flash output with optocoupler (-)  |
| 2 | Trigger input with optocoupler (+) |
| 3 | Shielding                          |
| 4 | USB Power supply (VCC) 5 V         |
| 5 | USB Ground (GND)                   |
| 6 | Flash output with optocoupler (+)  |
| 7 | Trigger input with optocoupler (-) |
| 8 | USB data (+)                       |
| 9 | USB data (-)                       |



Camera rear view

## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 34.0 mm x 32.0 mm x 41.3 mm |
| Mass             | 65 g                        |

