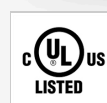


**Discontinued**  
The model has been discontinued.

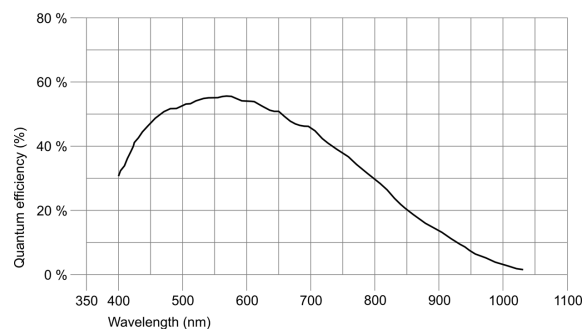


uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. [Learn about the process here and switch now.](#)  
Please note: The technical data given here was measured using the IDS Software Suite.

## Specification

### Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CMOS Mono            |
| Shutter                                 | Rolling shutter      |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 1.3 MP               |
| Resolution                              | 1.31 Mpix            |
| Resolution (h x v)                      | 1280 x 1024 Pixel    |
| Aspect ratio                            | 5:4                  |
| ADC                                     | 10 bit               |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/2"                 |
| Optical Size                            | 6.656 mm x 5.325 mm  |
| Optical sensor diagonal                 | 8.52 mm (1/1.88")    |
| Pixel size                              | 5.2 µm               |
| Manufacturer                            | Onsemi               |
| Sensor Model                            | MT9M001STM           |
| Gain (master/RGB)                       | 13x/-                |
| AOI horizontal                          | increased frame rate |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 32 / 4               |
| AOI image height / step width           | 4 / 2                |
| AOI position grid (horizontal/vertical) | 4 / 2                |
| Binning horizontal                      | -                    |
| Binning vertical                        | -                    |
| Binning method                          | -                    |
| Binning factor                          | -                    |
| Subsampling horizontal                  | increased frame rate |
| Subsampling vertical                    | increased frame rate |
| Subsampling method                      | Color                |
| Subsampling factor                      | 2, 4, 8              |



Subject to technical modifications (2025-06-03)

### Model

|                                   |                    |
|-----------------------------------|--------------------|
| Pixel clock range                 | 2 MHz - 61 MHz     |
| Frame rate freerun mode           | 35                 |
| Frame rate trigger (maximum)      | 35                 |
| Exposure time (minimum - maximum) | 0.026 ms - 2459 ms |
| Power consumption                 | 2.6 W - 3.2 W      |
| Image memory                      | 64 MB              |

### Ambient conditions

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

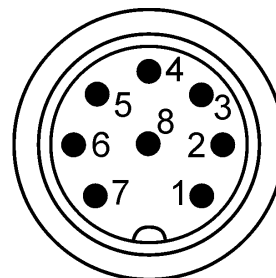
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 0 % - 100 %                     |

### Connectors

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| Interface connector | GigE M12, screwable                                        |
| I/O connector       | 8-pin Binder connector (Binder series 712: 09-0427-020-08) |
| Power supply        | 12 V - 24 V or PoE                                         |

### Pin assignment I/O connector

|   |                                     |
|---|-------------------------------------|
| 1 | Trigger input with optocoupler (+)  |
| 2 | Input power supply (VCC) 12-24 V DC |
| 3 | General Purpose I/O (GPIO) 1        |
| 4 | Ground (GND)                        |
| 5 | Flash output with optocoupler (+)   |
| 6 | Flash output with optocoupler (-)   |
| 7 | Trigger input with optocoupler (-)  |
| 8 | General Purpose I/O (GPIO) 2        |



Camera rear view

### Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP65/67                     |
| Dimensions H/W/L | 41.0 mm x 53.0 mm x 39.7 mm |
| Mass             | 175 g                       |

