

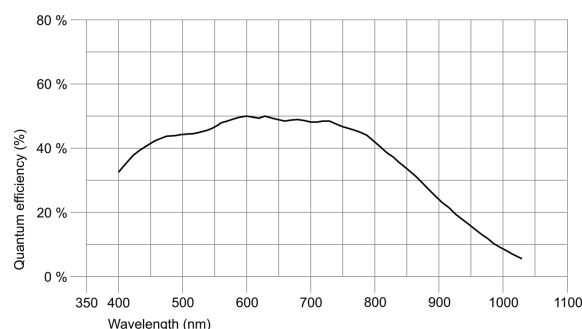


uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. [Learn about the process here and switch now.](#)
Please note: The technical data given here was measured using the IDS Software Suite.

Specification

Sensor

| | |
|---|-------------------------|
| Sensor type | CMOS Mono |
| Shutter | Global Shutter |
| Sensor characteristic | Linear with knee points |
| Readout mode | Progressive scan |
| Pixel Class | 0.4 MP |
| Resolution | 0.36 Mpix |
| Resolution (h x v) | 752 x 480 Pixel |
| Aspect ratio | 14:9 |
| ADC | 10 bit |
| Color depth (camera) | 8 bit |
| Optical sensor class | 1/3" |
| Optical Size | 4.512 mm x 2.880 mm |
| Optical sensor diagonal | 5.35 mm (1/2.99") |
| Pixel size | 6 µm |
| Manufacturer | Onsemi |
| Sensor Model | MT9V032C12STM |
| Gain (master/RGB) | 4x/- |
| AOI horizontal | increased frame rate |
| AOI vertical | increased frame rate |
| AOI image width / step width | 16 / 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 | Mono |
| Binning factor | 2 / 3 |
| Subsampling horizontal | - |
| Subsampling vertical | - |
| Subsampling method | - |
| Subsampling factor | - |



Model

| | |
|-----------------------------------|--------------------|
| Pixel clock range | 5 MHz - 40 MHz |
| Frame rate freerun mode | 87 |
| Frame rate trigger (maximum) | 83 |
| Exposure time (minimum - maximum) | 0.080 ms - 5580 ms |
| Power consumption | 0.4 W - 1 W |

Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.
For PCB versions, refer to the separate hints in the respective documentation.

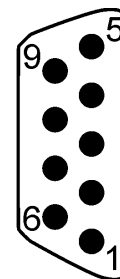
| | |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Device temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

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 | - |
| Dimensions H/W/L | 30.0 mm x 30.0 mm x 41.3 mm |
| Mass | 43 g |

