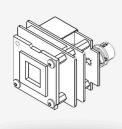


UI-5542SE-M Rev.2 (AB00029)

Discontinued
The model has been discontinued.







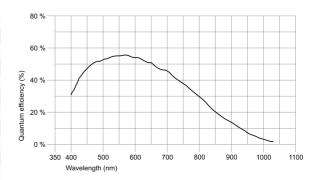


uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. <u>Learn about the process here and switch now.</u>
Please note: The technical data given here was measured using the IDS Software Suite.

Specification

Sensor

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 writical increased frame rate AOI image width / step width 4 / 2 AOI transition mid (horizontal total) 4 / 2
Readout mode 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 AOI image width / step width 4 / 2
Pixel Class Resolution Resolution (h x v) Aspect ratio ADC 10 bit Color depth (camera) Optical sensor class Optical Size Optical Size Optical sensor diagonal Pixel size Manufacturer Sensor Model Gain (master/RGB) AOI horizontal AOI wertical AOI image width / step width AI MP 1.31 Mpix 1.280 x 1024 Pixel 1280 x 1024 Pixel 6.656 mm x 5.325 mm 6.656 mm x 5.325 mm 7.21111 Optical sensor diagonal 8.52 mm (1/1.88") 8.52 mm (1/1.88") 1.3121 1.3122 1.3123 1.3123 1.3124 1.3124 1.3125 1.3126 1.3
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
Resolution (h x v) 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 AOI vertical AOI image width / step width AOI image height / step width 4 / 2
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
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
Color depth (camera) Optical sensor class Optical Size Optical sensor diagonal Optical sensor diagonal 8.52 mm (1/1.88") Pixel size Manufacturer Onsemi Sensor Model MT9M001STM Gain (master/RGB) AOI horizontal AOI vertical AOI image width / step width AOI image height / step width
Optical sensor class Optical Size Optical Size Optical Size Oftical Size Optical sensor diagonal S.52 mm (1/1.88") Pixel size Sensor Model Manufacturer Onsemi Sensor Model MT9M001STM Gain (master/RGB) AOI horizontal increased frame rate AOI vertical AOI image width / step width AOI image height / step width AOI image height / step width
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
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 AOI vertical AOI wertical AOI image width / step width AOI image height / step width 4 / 2
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
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
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
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 horizontal increased frame rate AOI vertical increased frame rate AOI image width / step width 32 / 4 AOI image height / step width 4 / 2
AOI vertical increased frame rate AOI image width / step width 32 / 4 AOI image height / step width 4 / 2
AOI image width / step width 32 / 4 AOI image height / step width 4 / 2
AOI image height / step width 4 / 2
_ · · · · ·
A O I
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)



UI-5542SE-M Rev.2 (AB00029)

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	60 MB

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	GigE RJ45, screwable
I/O connector	6-pin Hirose connector (HR10A-7R-6PB)
Power supply	12 V - 24 V

Pin assignment I/O connector

1	Ground (GND)
2	Power supply (VCC)
3	Trigger input with optocoupler (-)
4	Trigger input with optocoupler (+)
5	Flash output with optocoupler (+)
6	Flash output with optocoupler (-)



Design

200.9	
Lens Mount	-
IP code	-
Dimensions H/W/L	30.0 mm x 40.0 mm x 38.0 mm
Mass	64 a