

Discontinued
The model has been discontinued.

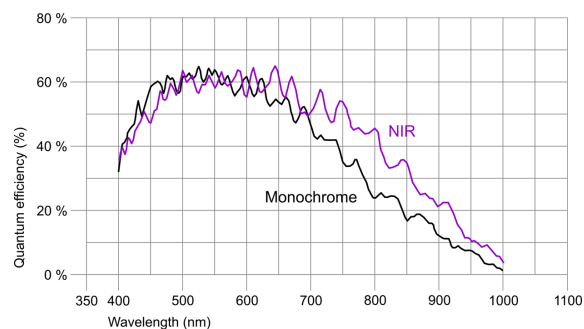


uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. [Learn about the process here and switch now.](#)
Please note: The technical data given here was measured using the IDS Software Suite.

Specification

Sensor

Sensor type	CMOS Mono
Shutter	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	CMV4000-3E5M
Gain (master/RGB)	4x/-
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	16 / 4
AOI image height / step width	2 / 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, 16



Subject to technical modifications (2025-06-03)

Model

Pixel clock range	38 MHz - 344 MHz
Frame rate freerun mode	80
Frame rate trigger (continuous)	80
Frame rate trigger (maximum)	80
Exposure time (minimum - maximum)	0.038 ms - 500 ms
Power consumption	1.8 W - 3.1 W
Image memory	128 MB
Special features	IDS line scan mode, 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.

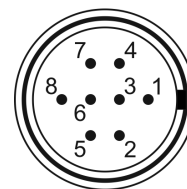
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	USB Type-C, 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, 3.3 V
4	Trigger input with optocoupler (-)
5	Flash output with optocoupler (+)
6	General Purpose I/O (GPIO) 2, 3.3 V
7	Trigger input with optocoupler (+)
8	Voltage output (USB Power Delivery), 5-15 V



Camera rear view

Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	34.0 mm x 44.0 mm x 47.0 mm
Mass	115 g