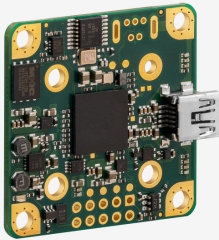
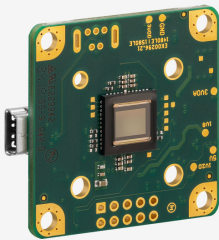


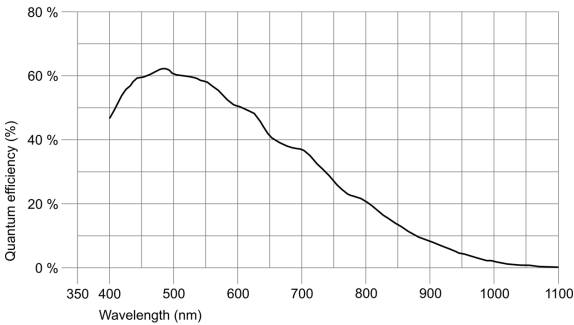
■ Discontinued
The model has been discontinued.



Specification

Sensor

Sensor type	CMOS Mono
Shutter	Rolling shutter / Global Start Shutter
Sensor characteristic	Linear
Pixel Class	5 MP
Resolution	4.92 Mpix
Resolution (h x v)	2560 x 1920 Pixel
Aspect ratio	4:3
ADC	12 bit
Color depth (camera)	8 bit
Optical sensor class	1/2"
Optical Size	5.632 mm x 4.224 mm
Optical sensor diagonal	7.04 mm (1/2.27")
Pixel size	2.2 µm
CRA (Chief Ray Angle)	7 °
Manufacturer	Onsemi
Sensor Model	MT9P031STM
Gain (master/RGB)	30x/-
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	increased frame rate
Binning vertical	increased frame rate
Binning method	Horizontal: addition / Vertical: mean
Binning factor	2
Decimation (subsampling) horizontal	increased frame rate
Decimation (subsampling) vertical	increased frame rate
Decimation (subsampling) method	Color



Model

Pixel clock range	5 MHz - 43 MHz
Frame rate freerun mode	6.3 fps
Frame rate trigger (maximum)	6.3 fps
Exposure time (minimum - maximum)	0.075 ms - 2745 ms
Power consumption	0.4 W - 0.9 W
Image memory	-

Ambient conditions

For PCB versions, refer to the separate hints in the respective documentation.

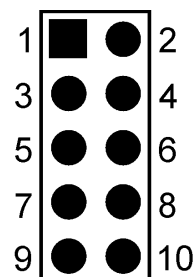
Allowed device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Allowed device temperature during storage	-20 °C - 80 °C / -4 °F - 176 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	USB 2.0 mini-B
I/O connector	10-pin plated-through holes
Power supply	USB cable

Pin assignment I/O connector

1	USB Power supply (VCC) 5 V
2	USB Ground (GND)
3	Trigger input without optocoupler (+)
4	Flash output without optocoupler (+)
5	Power supply (internal voltage transformer), 3.3 V or 3.0 V (sensor-dependent)
6	USB Ground (GND)
7	General Purpose I/O (GPIO) 1
8	General Purpose I/O (GPIO) 2
9	I2C bus clock signal
10	I2C bus data signal



Design

Lens Mount	No mount
IP code	-
Dimensions H/W/L	36.0 mm x 36.0 mm x 5.7 mm
Mass	6.5 g
Housing material	-

Features

List of on-camera image pre-processing features.

All features of the table are available via our IDS peak software for image pre-processing on the host computer (sensor model dependent).

Image Acquisition

Freerun	✓
Software trigger	-
Hardware trigger	✓
Trigger controlled exposure	-
Denoiser	-
Long exposure	-
Line scan	-
Global start	✓

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Flashing	Flashing	-
	PWM flashing	-
Image Adjustments	Auto exposure	-
	Auto gain	-
	Auto whitebalance	-
	Color correction	-
	Gamma	-
	LUT	-
On-board Image Processing	Mirror/flip	-
	Pixel formats	
	Region of interest	✓
	Decimation (FPGA)	-
	Decimation (Sensor)	
Others	Binning (FPGA)	-
	Chunks	-
	Sequencer	-
	Firmware update	-
	1st supported firmware version	4.92