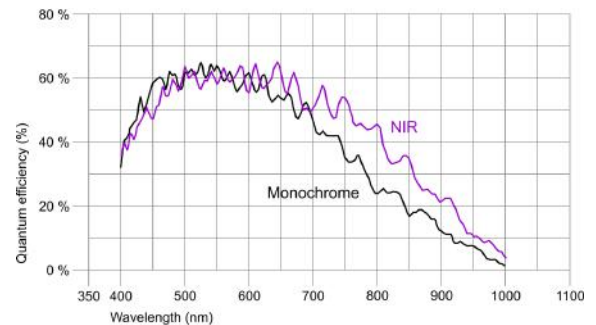




Specification

Sensor

Sensor type	CMOS Mono
Shutter	Global Shutter
Sensor characteristic	Linear with knee points
Readout mode	Progressive scan
Pixel Class	2 MP
Resolution	2.23 Mpix
Resolution (h x v)	2048 x 1088 Pixel
Aspect ratio	17:9
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	2/3"
Optical Size	11.264 mm x 5.984 mm
Optical sensor diagonal	12.75 mm (1/1.25")
Pixel size	5.5 µm
Manufacturer	CMOSIS
Sensor Model	CMV2000-3E5M
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

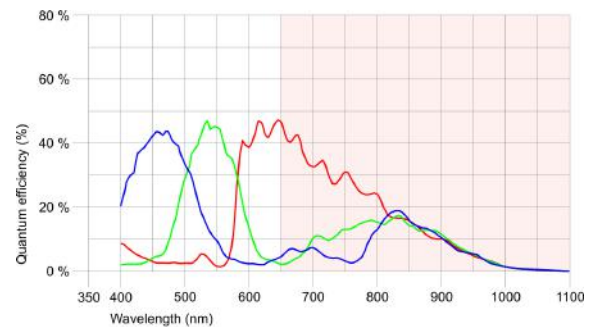




Specification

Sensor

Sensor type	CMOS Color
Shutter	Global Shutter
Sensor characteristic	Linear with knee points
Readout mode	Progressive scan
Pixel Class	2 MP
Resolution	2.23 Mpix
Resolution (h x v)	2048 x 1088 Pixel
Aspect ratio	17:9
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	2/3"
Optical Size	11.264 mm x 5.984 mm
Optical sensor diagonal	12.75 mm (1/1.25")
Pixel size	5.5 µm
Manufacturer	CMOSIS
Sensor Model	CMV2000-3E5C
Gain (master/RGB)	4x/4x
AOI horizontal	same 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)	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

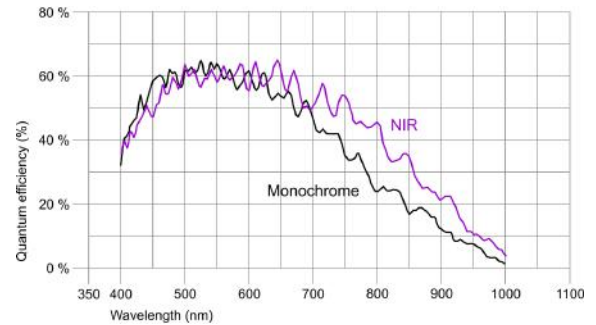




Specification

Sensor

Sensor type	CMOS Mono
Shutter	Global Shutter
Sensor characteristic	Linear with knee points
Readout mode	Progressive scan
Pixel Class	2 MP
Resolution	2.23 Mpix
Resolution (h x v)	2048 x 1088 Pixel
Aspect ratio	17:9
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	2/3"
Optical Size	11.264 mm x 5.984 mm
Optical sensor diagonal	12.75 mm (1/1.25")
Pixel size	5.5 µm
Manufacturer	CMOSIS
Sensor Model	CMV2000-3E12M
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



Model

Pixel clock range	38 MHz - 344 MHz
Frame rate freerun mode	152
Frame rate trigger (maximum)	152
Exposure time (minimum - maximum)	0.025 ms - 500 ms
Power consumption	1.4 W - 2.9 W
Image memory	128 MB
Special features	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.

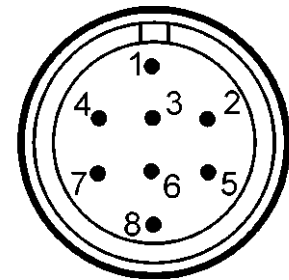
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	USB 3.0 micro-B, 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
4	Trigger input with optocoupler (-)
5	Flash output with optocoupler (+)
6	General Purpose I/O (GPIO) 2
7	Trigger input with optocoupler (+)
8	Output supply voltage, 5 V (100 mA)



Camera rear view

Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	29.0 mm x 29.0 mm x 29.0 mm
Mass	52 g