

In series

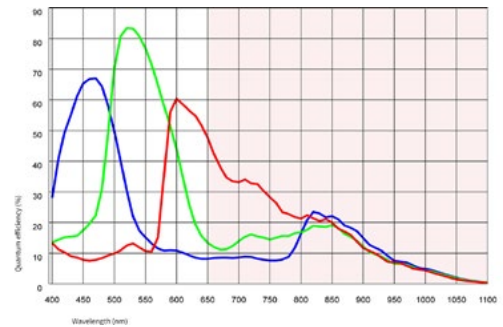
The model is in series and available for the long term.



Specification

Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	13 MP
Resolution	13.10 Mpix
Resolution (h x v)	4200 x 3120 Pixel
Aspect ratio	4:3
ADC	10 bit
Color depth (camera)	8 bit
Optical sensor class	1/3.2"
Optical Size	4.620 mm x 3.432 mm)
Optical sensor diagonal	5.76 mm (1/2.78")
Pixel size	1.1 µm
Manufacturer	Onsemi
Sensor Model	AR1335CSSC32SMD20
Gain (master/RGB)	45.3x/8x
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	204 / 12
AOI image height / step width	102 / 2
AOI position grid (horizontal/vertical)	12 / 2
Binning horizontal	-
Binning vertical	-
Binning method	-
Binning factor	-
Subsampling horizontal	-
Subsampling vertical	-
Subsampling method	-
Subsampling factor	-



Integrated optics

Focal length	3.81 mm ± 3 %
Angle of view (at 600 mm working distance)	Horizontal: 62.2° ± 2° Vertical: 48.2° ± 2° Diagonal: 73.8° ± 2°
Aperture (F)	1:2.2 ± 5 %
Focus range	100 mm ~ infinity

Model

Frame rate freerun mode	20 fps
Frame rate trigger (maximum)	-
Exposure time (minimum - maximum)	0.030 ms - 955 ms
Power consumption	0.9 W - 2.4 W

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	-
Power supply	USB cable

Design

Lens Mount	-
IP code	IP30
Dimensions H/W/L	60.9 mm x 31.9 mm x 19.0 mm
Mass	42 g

Features

Image Acquisition	Freerun	✓
	Software trigger	✓
	Hardware trigger	-
	Trigger controlled exposure	-
	Denoisier	-
	Long exposure	-
	Line scan	-
	Line scan highspeed	-
	Global start	-
Flashing	Flashing	-
	PWM flashing	-
Image Adjustments	Auto exposure	✓
	Auto gain	✓
	Auto whitebalance	✓
	Color correction	-
	Gamma	-
	LUT	-
	Mirror/flip	X/Y
On-board Image Processing	Pixel formats	BayerGR8
	Region of interest	✓
	Decimation (FPGA)	-
	Decimation (Sensor)	-
	Binning (FPGA)	-

Subject to technical modifications (2024-07-24)

Others

Chunks	-
Sequencer	-
Events	-
Firmware update	✓
1st supported firmware version	2.12