

In Series

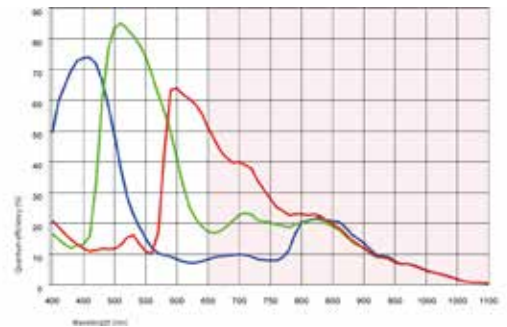
The model is in series and available for the long term.



Specification

Sensor

Sensor type	CMOS Color
Shutter	Rolling Shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	5 MP
Resolution	5.04 Mpix
Resolution (h x v)	2593 x 1944 Pixel
Aspect ratio	4:3
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1/2,5"
Optical Size	5.702 mm x 4.277 mm
Optical sensor diagonal	7.13 mm (1/2.24")
Pixel size	2.2 µm
Manufacturer	Onsemi
Sensor Model	AR0521SR2C09SURA0
Gain (master/RGB)	15x/8x



Model

Frame rate streaming mode	5-30 fps
Streaming format	Full HD (16:9)
Exposure time (minimum - maximum)	0.031 ms - 33 ms
Power consumption	6 W - 7 W
Available RAM	600 MB

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	GigE RJ45, screwable
I/O connector	8-pin Hirose connector (HR25-7TR-8PA(73))
Power supply	12 V - 24 V or PoE

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	Input power supply (VCC) 12-24 V DC



Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	34.0 mm x 44.0 mm x 73.0 mm
Mass	-169.5 g

Features

Image Acquisition	Freerun	✓
	Software trigger	✓
	Hardware trigger	✓
	Trigger controlled exposure	-
	Denoisier	-
	Long exposure	-
	Line scan	-
	Line scan highspeed	-

Image Adjustments (ISP)	Auto exposure	✓
	Auto gain	✓
	Auto whitebalance	✓
	Auto brightness	✓
	Contrast	✓
	Motion Compensated Temporal Filtering	✓
	Sharpening	✓
	Color hue	✓
	Color saturation	✓
	Night mode	✓
On-board Image Processing	CNN processing	✓
	Region of interest	✓
	Person anonymization (Alpha)	✓
Video encoding	MJPEG	✓
	H264	✓
Software interfaces	REST API	✓
	OPC UA	-
	RTSP	✓
	GPIO	✓
System on chip	Quad core ARM Cortex-A53 up to 1 GHz	
	Neural processing unit (NPU)	✓
Others	Firmware update	✓
	1st supported firmware version	4.0



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