

**Area scan camera PYTHON 1300, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 4.8 μm pix, 1/2", Mono, 210 fps, USB 3.0, USB 3.0, C mount, AR**



## KEY ADVANTAGES

### USB 3.0 connectivity

Easy connectivity to most new computers with 5Gbps bandwidth.

### USB3® protocol & GenICam® standard

Standard vision SDK platform for easy integration in existing software.

### Full GenICam® compliant: easy to integrate

GenICam® compliant SDK package provides more flexibility to Vision Systems.

### High quality sensors

New SONY Pregius CMOS Global shutter sensors provide high quality images to the camera.

### Sensor Sizes from 1/2.5" to 1.1" to fit all application requirements

Find the exact sensor you need for your needs.



**The COE-U series** includes USB3 Vision® cameras equipped with the latest sensors, ranging from high speed VGA to the latest 1.1" 12MP SONY Pregius sensor, which deliver USB 3.0 connectivity with high frame rate.

## SPECIFICATIONS

### Sensor Specification

Megapixel		1.3
Resolution		1280 x 1024
Sensor format		1/2"
Sensor diagonal	(mm)	7.9
Pixel size	(μm)	4.8
Sensor model		PYTHON 1300
Sensor type		CMOS
Shutter		Global
Chroma		Mono

### Connectivity

Data connector		USB 3.0 Micro-B
Data interface		USB 3.0
I/O connector		6-pin Hirose
I/O interface		1x opto-isolated input 1x opto-isolated output 1x bi-directional non-isolated
Serial interface		no
Encoder interface		no
Power supply	(V)	5-15, USB 3.0
Max power consumption <sup>1</sup>	(W)	3

<sup>1</sup> Measured at 5 VDC

### Camera Specification

Filter		AR
Framerate	(fps)	210
Exposure time		40 μs - 10 s
Dynamic range	(dB)	60
Gain range	(dB)	0-15
SNR	(dB)	40
Image buffer	(MB)	128
Pixel formats		Mono 8/10/ 10Packed/ 12/12Packed
Chunk data		yes
User sets		3
Timers/Counters		0/1
Synchronization		Free run, software trigger, hardware trigger

### Compliance

Standards	USB3 Vision, GenICam	
Client software	OECS or other USB3 Vision software	
Operating systems	32/64-bit Windows XP/7/10	
Warranty	(years)	1

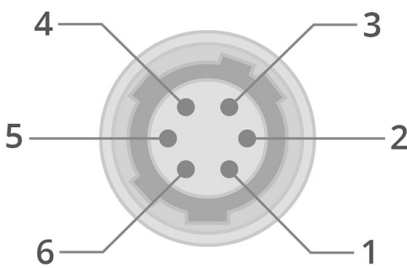
### Environment

Operating temperature	(°C)	0-+50
Storage temperature	(°C)	-30-+70
Operating relative humidity	(%)	20-80, non condensing
IP rating	IP30	

### Mechanical Specifications

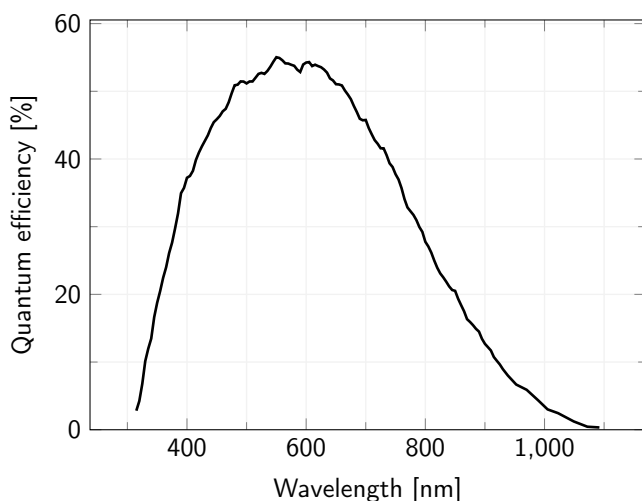
Mount	C	
Dimensions <sup>2</sup>	(mm)	29 x 29 x 42
Clamping system	3x M3 and 4x M2 threaded holes (on one side)	
Mass	(g)	56

### HIROSE PINOUT



Pin	Signal	I/O	Description
1	12V	Input	DC 12V
2	Opt-Iso In	Input	Opto-isolated input
3	GPIO	I/O	Can be configured as input or output
4	Opt-Iso Out	Output	Opto-isolated output
5	I/O Ground	Input	Opto-isolated I/O grounding
6	GND	Input	Power and GPIO grounding

### SENSOR QUANTUM EFFICIENCY



### RECOMMENDED ACCESSORIES

Opto-Engineering® suggests the following accessories to power the camera:

- **CBUSB3001**, Passive USB 3.0 cable, industrial level, horizontal screw locking, 3 m
- **COE-6P-OPEN1-030-01**, HIROSE 6-pin/Open end cable, 3 meters

### COMPATIBLE PRODUCTS

Full list of compatible products available [here](#).



A wide selection of innovative machine vision components.