

Area scan camera -, CMOS, Global shutter, 1280 x 1024, 1.3 MP, 4.8 µm pix, 1/2", Mono, 201 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 Vision® 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.

Frame Rate up to 210 fps

High frame rate ideal for high speed applications.

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	-
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)	9-24, USB 3.0
Max power consumption ¹ (W)	2.4

Camera Specification

Filter	AR
Framerate (fps)	201
Exposure time	9 µs - 10 s
Dynamic range (dB)	53
Gain range (dB)	0-16
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

¹ Measured at 5 VDC

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

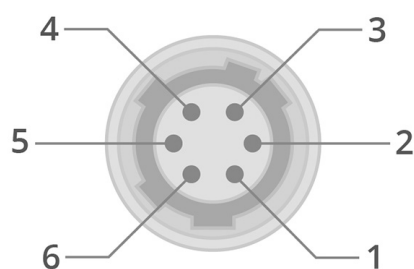
Mechanical Specifications

Mount	C	
Dimensions ²	(mm)	29 x 29 x 42
Clamping system	3x M3 and 4x M2 threaded holes (on one side)	
Mass	(g)	80

Environment

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

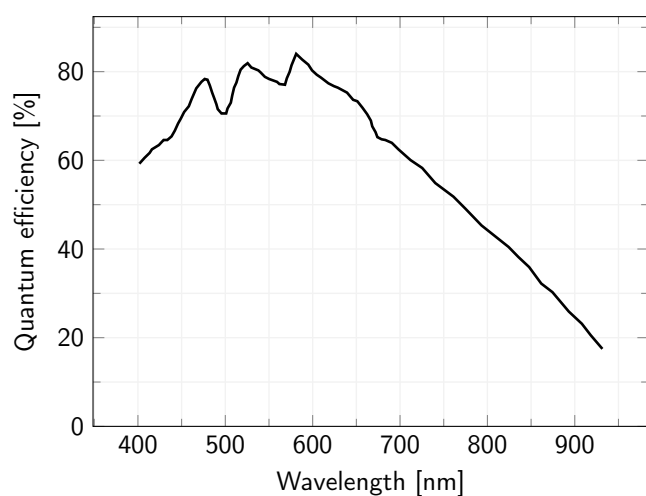
HIROSE PINOUT



Device side

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.

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.