

Area scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 µm pix, 2/3", Mono, 35 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.



SPECIFICATIONS

Sensor Specification

Megapixel		5
Resolution		2448 x 2048
Sensor format		2/3"
Sensor diagonal	(mm)	11.0
Pixel size	(µm)	3.45
Sensor model		IMX264
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 ¹	(W)	2.8

¹ Measured at 5 VDC

Camera Specification

Filter		AR
Framerate	(fps)	35
Exposure time		1 µs - 10 s
Dynamic range	(dB)	72
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

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.

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

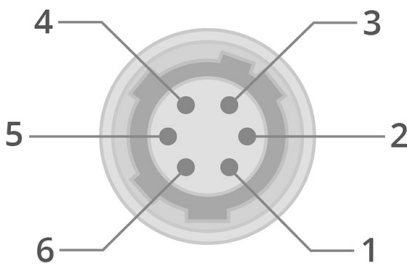
Environment

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

Mechanical Specifications

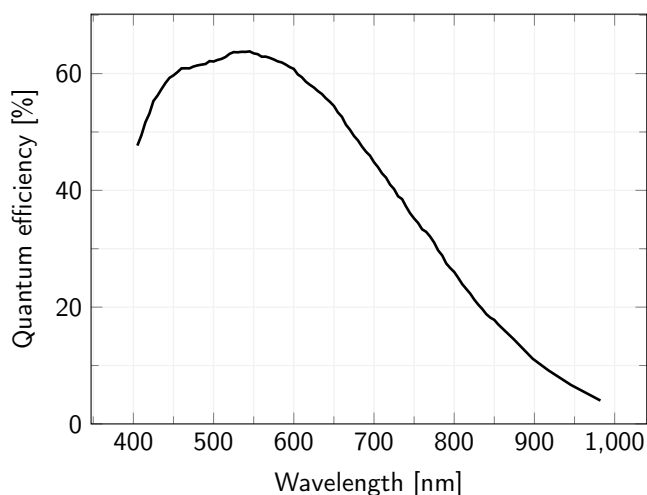
Mount	C	
Dimensions ²	(mm)	29 x 29 x 42
Clamping system	3x M3 and 4x M2 threaded holes (on one side)	
Mass	(g)	56

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.