

# COE-050-C-USB-050-IR-C | DATASHEET

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

# fps, USB 3.0, USB 3.0, C mount, IR cut **KEY ADVANTAGES**





### **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		Color	

# **Connectivity**

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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
Enconder interface		no
Power supply	(V)	5-15, USB 3.0
Max power consumption <sup>1</sup>	(W)	2.8

<sup>&</sup>lt;sup>1</sup> Measured at 5 VDC

#### **USB 3.0 connectivity**

Easy connectivity to most new computers with 5Gbps bandwidth.

#### USB3® protocol & GenlCam® standard

Standard vision SDK platform for easy integration in existing software.

### Full GenlCam® compliant: easy to integrate

GenlCam® compliant SDK package provides more flexibility to Vision Sys-

### **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.

# **Camera Specification**

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Filter		IR cut
Framerate	(fps)	35
Exposure time		1 µs - 10 s
Dynamic range	(dB)	60
Gain range	(dB)	0-15
SNR	(dB)	40
Image buffer	(MB)	128
Pixel formats		Mono 8/10/12, RGB8, BGR8, Bayer RG 8/10/10Packed/12/12Packed, YUV 422 Packed, YUV422_YUYV_Packed
Chunk data		yes
User sets		3
Timers/Counters		0/1
Synchronization		Free run, software trigger, hardware trigger



# **Compliance**

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

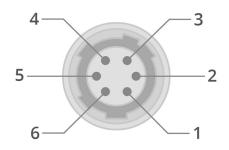
### **Environment**

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

# **Mechanical Specifications**

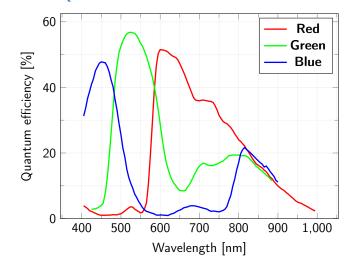
Mount		C
Dimensions <sup>2</sup>	(mm)	29 x 29 x 42
Clamping system		3x M3 and 4x M2 threaded holes (on one side)
Mass	(g)	56

### **HIROSE PINOUT**



Pin	Signal	1/0	Description
1	12V	Input	DC 12V
2	Opt-lso ln	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.