

# COE-050-M-USB-070-IR-C | DATASHEET

Area scan camera IMX264, CMOS, Global shutter, 2448 x 2048, 5 MP, 3.45 μm pix, 2/3", Mono, 60

# fps, USB 3.0, USB 3.0, C mount, AR filter









# **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 GenlCam® compliant: easy to integrate

GenlCam® 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 require-

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**

Sen	SOF	Sn	ocifi	cat	ion

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
Enconder interface		no
Power supply	(V)	9-24, USB 3.0
Max power consumption <sup>2</sup>	(W)	3.2

# **Camera Specification**

Camera Specification			
Filter		AR	
Framerate <sup>1</sup>	(fps)	60	
Exposure time		1 μs - 10 s	
Dynamic range	(dB)	71	
Gain range	(dB)	0-24	
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	

<sup>&</sup>lt;sup>1</sup> Color-model's fps are calculated using RGB8 pixel format

<sup>&</sup>lt;sup>2</sup> Measured at 12 VDC



# **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

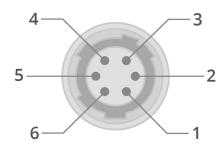
# **Environment**

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

# **Mechanical Specifications**

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

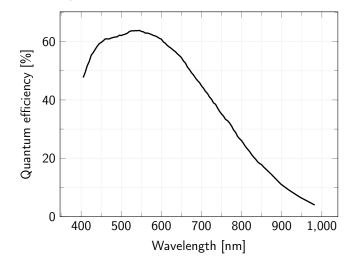
# **HIROSE PINOUT**



Device side

Pin	Signal	1/0	Description
1	V+	Input	Power DC V+
2	Opt-Iso In	Input	Opto-isolated input
3	GPIO	1/0	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 $^{\mbox{\tiny \$}}$  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.