

COE-200-C-USB-070-IR-C | DATASHEET

Area scan camera IMX183, CMOS, Rolling shutter, 5472 x 3648, 20.4 MP, 2.4 μm pix, 1", Color, 6.4 fps, USB 3.0, USB 3.0, C mount, IR cut 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

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		20.4
Resolution		5472 x 3648
Sensor format		1"
Sensor diagonal	(mm)	15.8
Pixel size	(µm)	2.4
Sensor model		IMX183
Sensor type		CMOS
Shutter		Rolling
Chroma		Color

Connectivity

	USB 3.0 Micro-B
	USB 3.0
	6-pin Hirose
	1x opto-isolated input 1x opto-isolated output 1x bi-directional non-isolated
	no
	no
(V)	5-15, USB 3.0
(W)	2.9
	. ,

Camera Specification

Filter		IR cut
Framerate ¹	(fps)	6.4
Exposure time		44 µs - 0.7 s
Dynamic range	(dB)	65.5
Gain range	(dB)	0-20
SNR	(dB)	41.5
Image buffer	(MB)	128
Pixel formats		Mono 8/10/12, RGB8, Bayer GB 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

¹ Color-model's fps are calculated using RGB8 pixel format

² 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

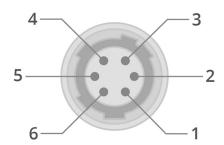
Environment

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 ²	(mm)	44 x 29 x 68
Clamping system		4x M3 threaded holes (on one side)
Mass	(g)	100

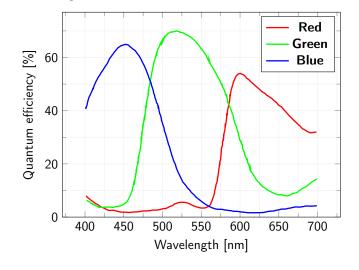
HIROSE PINOUT



Device side

Pin	Signal	1/0	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.