

COE-016-M-USB-030-IR-C | DATASHEET

Area scan camera IMX273, CMOS, Global shutter, 1440 x 1080, 1.6 MP, 3.45 μm pix, 1/2.9", Mono, 249.1 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

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.

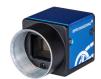
Frame Rate up to 210 fps

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		1.6
Resolution		1440 x 1080
Sensor format		1/2.9"
Sensor diagonal	(mm)	6.2
Pixel size	(µm)	3.45
Sensor model		IMX273
Sensor type		CMOS
Shutter		Global
Chroma		Mono

Connectivity

Commediating		
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 ²	(W)	3

Camera Specification

AR
249.1
1 μs - 10 s
71.1
0-17
40
128
Mono 8/10/ 10Packed/ 12/12Packed
yes
3
0/1
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

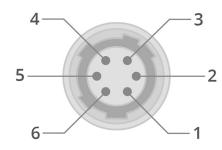
Environment

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

Mechanical Specifications

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

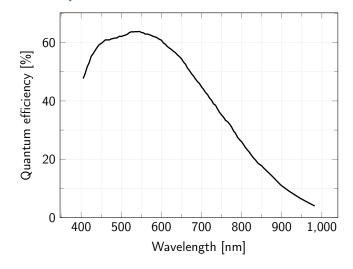
HIROSE PINOUT



Device side

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