

# COE50MUSB3SK-K | DATASHEET

Area scan camera CMV50000, CMOS, Global shutter, 7920 x 6004, 48 MP, 4.6 μm/pix, Full Frame, Mono, 6.8 fps, USB 3.0, M58x0.75 FD 12.96 mount, AR













## **SPECIFICATIONS**

## **Sensor Specification**

	48
	7920 x 6004
	Full Frame
(mm)	45.7
(µm)	4.6
	CMV50000
	CMOS
	Global
	Mono

## **Camera Specification**

Filter		AR
Framerate	(fps)	6.8
Exposure time		> 110 µsec
ADC resolution	(bit)	12
Dynamic range	(dB)	64
Gain range		1-4x
Image Processing		ROI, Shading correction, Image Storage, Defect pixel correction
Synchronization		Free run, software trigger, hardware trigger

## **KEY ADVANTAGES**

## High quality rugged design

Using the latest industrial components, these cameras are built to last and allow for extended temperature ranges.

#### **Available in USB3 and Camera Link**

USB3 offers high speed and easy installation, while Camera Link guarantees maximum performance and direct access to the camera sensor.

#### **Excellent image quality**

Built-in features include pixel correction, column defect correction, white balancing, flat-field correction.

## **Optics to match**

Many Opto Engineering® Telecentric lenses match these 35mm sensors for the best optical performance.

**COE High Resolution Area Scan cameras** are designed to provide high-resolution images, using the latest High Res sensors that offer both quality and speed.

## Connectivity

Data connector		USB 3.0 Micro-B
Data interface		USB 3.0
I/O connector		6-pin Hirose
I/O interface		1x input, 1x output
Serial interface		no
Econder interface		no
Power requirements	(V)	6-14
Max power consumption <sup>1</sup>	(W)	8

## Compliance

Client software	COE-HR-USB3 Demo viewer, Camera Control Application	
Operating systems		32/64-bit Windows XP/7/10
Shock and vibration		10G (20-200Hz) XYZ; 70G 10ms
Warranty	(years)	1



## **Mechanical Specifications**

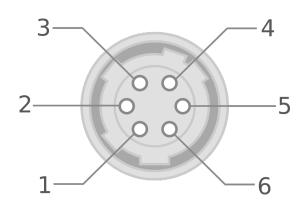
Mount		M58x0.75 FD 12.96
Dimensions <sup>2</sup>	(mm)	85 x 80 x 67
Clamping system		8x M3 threaded holes (on 4 sides)

## **Environment**

Operating temperature	(°C)	0-60
Storage temperature	(°C)	-40-+70
Operating relative humidity	(%)	20-80, non condensing

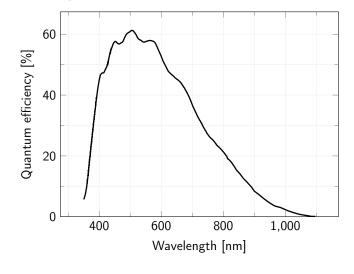
<sup>&</sup>lt;sup>1</sup> Measured at 12 VDC

## **HIROSE PINOUT**



Pin	Signal Name	
1	+12V	
2	DC Ground	
3	Trigger IN STROBE OUT	
4		
5	NO CONNECT	
6	NO CONNECT	

## **SENSOR QUANTUM EFFICIENCY**



## **RECOMMENDED POWER SUPPLY**

Opto-Engineering  ${\bf @}$  suggests the following accessories to power the camera:

- COE-6P-MALE, 6 pin Male cable for COE HR AS series, 2 meters
- COE-PS-UNIVERSAL, Power supply for COE HR AS series cameras.

## **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.

<sup>&</sup>lt;sup>2</sup> Width measured without fan grid