

# **COE71CCLSK-F** | DATASHEET

Area scan camera CHR70M, CMOS, Rolling shutter, 10000 x 7096, 71 MP, 3.1 μm/pix, 2.4", Color, 4.2 fps, Camera Link, Medium, 85 MHz, F mount, AR











#### **SPECIFICATIONS**

# **Sensor Specification**

Megapixel		71
Resolution		10000 x 7096
Sensor format		2.4"
Sensor diagonal	(mm)	38.0
Pixel size	(µm)	3.1
Sensor model		CHR70M
Sensor type		CMOS
Shutter		Rolling
Chroma		Color

# **Camera Specification**

Filter		AR
Framerate	(fps)	4.2
Exposure time		> 133 µsec
ADC resolution	(bit)	12
Dynamic range	(dB)	64
Gain range		1-4x
Image Processing		ROI, Shading and flat fieldcorrection, 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		SDR
Data interface		Camera Link, Medium, 85 MHz
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**

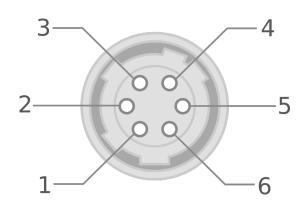
Mount		F
Dimensions <sup>2</sup>	(mm)	85 x 80 x 80
Clamping system		8x M3 threaded holes (on 4 sides)

#### **Environment**

Operating temperature	(°C)	0-60
Storage temperature	(°C)	-40-+85
Operating relative humidity	(%)	20-80, non condensing

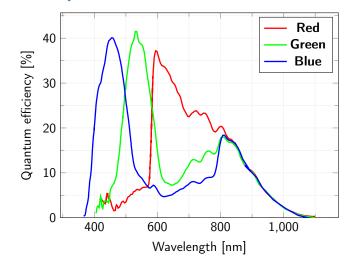
<sup>&</sup>lt;sup>1</sup> Measured at 12 VDC

#### **HIROSE PINOUT**



Pin	Signal Name
1	+12V
2	DC Ground
3	Trigger IN
4	STROBE OUT
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