eco415MVGE67

ECO IP67 »BlackLine«

Dust tight and protected against water in harmful quantity

Factory automation is dependent on reliable and efficient solutions. For this to happen, the components for machinery, controls and industrial image processing need to work in total harmony. SVS-VISTEK's "BlackLine"-standard makes it easier and more cost efficient to integrate the delicate image processing parts even in harsh environments.

The SVCam-ECO »BlackLine« is equipped with a waterproof housing and a M12 connector concept for industrial field wiring.

The SVCam ECO-series is compelling by virtue of its extremely compact design (38 x 38 x 33 mm) and offers the best value for money. The SVCam-ECO is small, robust, fit for the factory floor, manufactured with precision, safe to connect, offers an LED controller, is PLC ready and reliable.

Technical Highlights

- IP67 protection class (including lens tube)
- progressive scan sensor
- 2 x outputs for direct drive and control of LED lighting
- up to 120 MB/s data rate
- GigE Vision and GenICam-Standards compliant
- Industrial I/O interface for easy Integration
- large range of Software and Algorithms
- broadcast-safe

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ECO Series eco415MVGE67

Resolution	780 x 580 px
Frame rate (max.)	86 fps
Chroma	mono
Interface	GigE Vision

Sensor

Sensor	ICX415AL
Manufacturer	Sony
Sensor type	Area CCD
Shutter type	global shutter
Sensor architecture	interline transfer
Readout type	progressive scan
Sensor size (h x v)	6.47 x 4.81 mm
Optical diagonal	8.07 mm
Sensor format	1/2 "
Pixel size (h x v)	8.3 x 8.3 µm

Camera

Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	21 µs
Exposure time (max)	60 sec (external ∞)
Pixel format / max	mono8, mono12 / 12 bit
Gain modes / max	manual, auto / 24 dB
Dynamic range (max)	58 dB (dep. on environment)
Internal memory	64 MB SDRAM, 8 MB Flash

Feature Set

AOI	yes
LUT	yes
Offset	yes
Readout control	yes
Binning	yes
Image flip	yes
Sequencer	yes

Housing

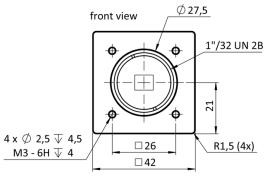
Lens mount	C-Mount
Dimensions (w x h x d)	42 x 42 x 31.5 mm
Weight	120 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP67

I/O-Interfaces

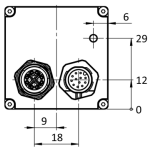
Input up to 24V	2 x
Output open drain	2 x
I/O RS-232	1 x
I/O RS-422	1 x
Power supply	10 to 25 V (DC)
Power consumption	4.5 W (dep. on operating mode)

Dimensions [mm]

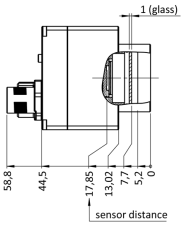
front



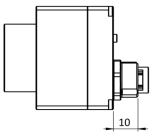
back



cross section



right side



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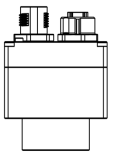

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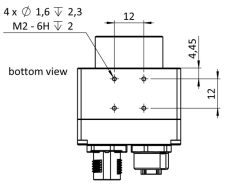
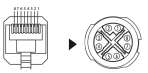


Pinout Mating Connector

M12 - I/O Connector

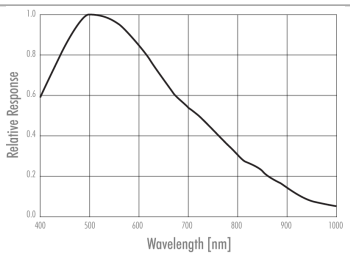
Pin	Color Code	Signal
1	brown	V IN + (10 – 25V)
2	blue	V IN- (GND)
3	white	RxD (RS232) not available for PoE versions
4	green	TxD (RS232) not available for PoE versions
5	pink	IN 1 (0 – 24 V)
6	yellow	IN 2 (0 – 24 V)
7	black	OUT 1 (open Drain max. 24 V, 0.3 A)
8	grey	OUT 2 (open Drain max. 24 V, 0.3 A)
9	red	IN 3 + (RS422)
10	violet	IN 3 – (RS422)
11	grey / pink	OUT 3 + (RS422)
12	red / blue	OUT 3 – (RS422)
	yellow / green	Shielding

RJ45 to M12 Connector



Color Code	Pin RJ45	Pin M12
white / orange	1	1
orange	2	2
white / green	3	3
blue	4	8
white / blue	5	7
green	6	4
white / brown	7	5
brown	8	6

Spectral Response *



* Sensor data – excludes camera cover- or IR-cut filter characteristics