

# hr25MCL

HR Camera Link



Camera Link has its advantages regarding data transfer speed, a deterministic timing and a very direct access to the imaging sensor itself. Thus it permits settings and operating modes that are not available with other interfaces. HR series with Camera Link provides a wide range of unique camera core features.

A sophisticated I/O interface provides a rich choice of industrial hardware and software features, including a GenlCam multi-channel LED strobe control. Best suited for applications such as optical metrology, surface control, quality control or monitoring of large areas.

## **Technical Highlights**

- > User defined defect pixel correction
- > Lens shading correction
- > ROI, LUT, binning, gamma, offset
- > Integrated multi channel LED strobe controller
- Industrial TTL-24V I/O interface with SafeTrigger, programmable logic functions, sequencer, timer, RS232
- > Power over Camera Link (PoCL)

SVS-Vistek GmbH - Mühlbachstraße 20 - 82229 Seefeld - Germany - Telephone +49 8152 9985-0 Information accurate as to: 03.01.2020, errors and omissions excepted.

© 2020 — SVS-Vistek GmbH, all rights reserved.

#### **HR** Series hr25MCL

Resolution	5120 x 5120 px
Frame rate (max.)	31 fps (1X10-1Y) 25 fps (1X8-1Y)
Chroma	mono
Interface	Camera Link 80-Bit

### Sensor

Sensor	NOIP1SNO25KA-GDI	Π
Manufacturer	ON Semiconductor	
Sensor type	Area CMOS	
Shutter type	global shutter	
Sensor size (h x v)	23.04 x 23.04 mm	
Optical diagonal	32.58 mm	
Sensor format	APS-H (32,58mm)	
Pixel size (h x v)	4.5 x 4.5 µm	

#### Camera

Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	21 µs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer10 / 10 bit
Gain modes / max	manual, auto / 18 dB
Pixel clock	85 MHz
Internal memory	512 MB SDRAM, 160 MB Flash

#### Feature Set

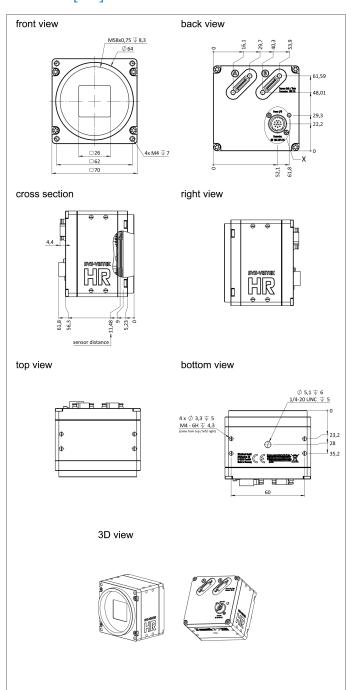
yes
yes
yes
yes
yes (external)
yes
yes

#### Housing

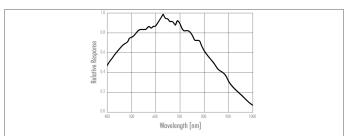
Lens mount	M58x0.75	
Dimensions (w x h x d)	70 x 70 x 56.3 mm	
Weight	380 g	
Operating temperature (housing)	-10 to 65 °C	
Ambient humidity	10 to 90 % (non-condensing)	
Protection class	IP40	

I/O-Interfaces	
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	10 W (dep. on operating mode)

## Dimensions [mm]



## Spectral Response \*



<sup>\*</sup> Sensor data — excludes camera cover- or IR-cut filter characteristics