hr51MXGE

HR 10 GigE

The HR 10 GigE series with its high-end high-resolution CCD and CMOS sensors permits making full use of the sensor bandwidth. 10 GigE delivers up to 1.1 GB/s of image data with distances up to 100m .

The clean design according to well established standards like GigE Vision, 10 GigE Vision and GenICam ensure rapid integration into the final application. The camera features a rich choice of industrial hardware and software features. Burst mode enables even higher trigger frequencies.

Best suited for applications such as optical metrology, surface control, quality control or monitoring of large areas.

Technical Highlights

- Sophisticated tap balancing (CCD only)
- Defect pixel correction, lens shading correction
- ROI, LUT, binning, gamma, offset, autoexposure
- Burst mode for high trigger frequency
- GenICam interface with GenTL driver
- Integrated multi channel LED strobe controller
- Industrial TTL-24V I/O interface with SafeTrigger, programmable logic functions, sequencer and timer, RS232
- M58 lens interface (F-Mount optional)

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HR Series hr51MXGE

Resolution	8424 x 6032 px
Frame rate (max.)	11 fps
Chroma	mono
Interface	10GigE

Sensor

Sensor	GMAX4651
Manufacturer	Gpixel
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	38.75 x 27.75 mm
Optical diagonal	47.66 mm
Sensor format	35mm Full Frame
Pixel size (h x v)	4.6 x 4.6 µm

Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	60 µs
Exposure time (max)	1 sec
Pixel format / max	mono8, mono12 / 12 bit
Gain modes	manual, auto
Internal memory	512 MB SDRAM, 160 MB Flash

Feature Set

Manual white balance	yes
Automatic white balance	yes
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Shading correction	yes (external)
Defect pixel correction	yes
Sequencer	yes

Housing

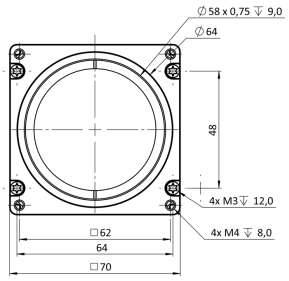
Lens mount	M58x0.75
Dimensions (w x h x d)	70 x 70 x 55.4 mm
Weight	320 g
Protection class	IP30

I/O-Interfaces

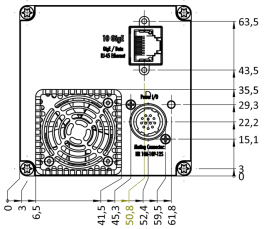
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)

Dimensions [mm]

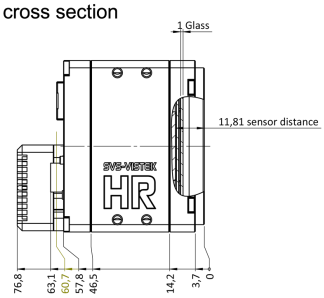
front



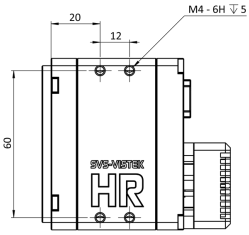
back



cross section



right side



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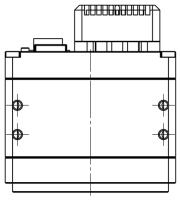

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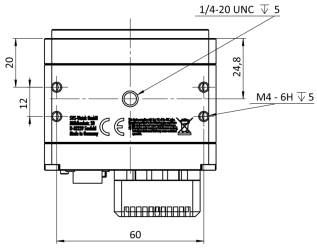

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