

hr51CCX

HR CoaXPress



The interface standard CoaXPress was developed to meet the need for higher bandwidth generated by recently launched sensors. In particular the latest high resolution CMOS sensors from Sony and ON Semi are capable of extremely high frame rates. CoaXPress therefore is the first choice for applications where speed is of prime importance.

Technical Highlights

- > ROI, LUT, binning, offset, gamma
- > Lens shading correction
- > Integrated multi channel LED strobe controller
- > CoaXPress (4 x 6.25 Gbit/s)
- Industrial TL-24V I/O Interface with SafeTrigger, programmable logic, sequencer and timers, RS232
- > Power over CXP

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HR Series

Dimensions (w x h x d)

Ambient temperature

Ambient humidity

Protection class

I/O-Interfaces

Input up to 24V

Output open drain

I/O RS-232

Weight

hr51CCX

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Resolution [MP]	51 MP
Resolution (h x v)	8416 x 6032 px
Frame rate (max.)	30 fps
Chroma	color
Interface	4 CXP-6 Connections
Sensor	
Sensor	GMAX4651
Manufacturer	Gpixel
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	38.71 x 27.75 mm
Optical diagonal	47.63 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)	su 08
Exposure time (max)	l sec
Pixel format / max	bayer8, bayer12 / 12 bit
Gain modes	manual, auto
S/N ratio (max)	42.6 dB (dep. on environment)
Dynamic range (max)	65 dB (dep. on environment)
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
Sequencer	yes
Housing	
Lens mount	M58x0.75

70 x 70 x 75.9 mm

10 to 90 % (non-condensing)

380 g

IP30

2 x

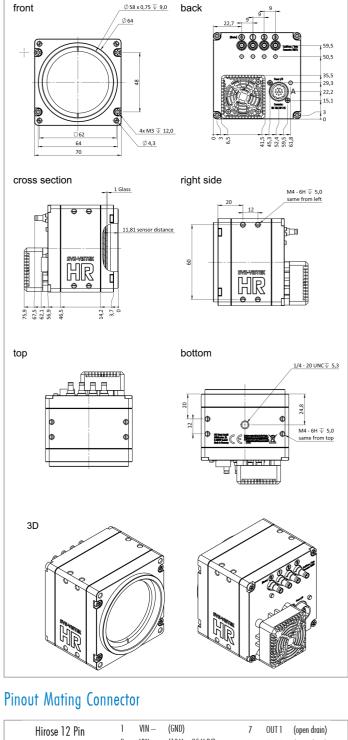
1 x

4 x

1 x

-10 to 45 $^\circ\text{C}$

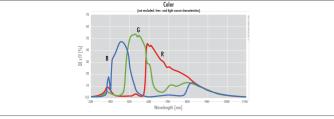
Dimensions [mm]



Hirose 12 Pin	1	VIN -	(GND)	7	0UT 1	(open drain)
	2	VIN +	(10 V to 25 V DC)	8	0UT 2	(open drain)
	3	IN 4	(RXD RS232)	9	IN3+	(opto In+)
	4	0UT 4	(TXD RS232)	10	IN 3 —	(opto In —)
	5	IN 1	(0-24V)	11	0UT 3	(open drain)
	6	IN 2	(0-24V)	12	OUTO	(open drain)

Spectral Response *

Power supply	10 to 25 V (DC)		
Power consumption	13 W (dep. on operating mode)		



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