



HR 100GigE

hr929C100GE-FF

Preliminary product information. Features and technical specifications are subject to change without notice.

General

Model	hr929C100GE-FF
Product code	F004315
Product series	HR 100GigE
Status	Coming soon

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	8,200 × 6,152 (50.40 MP)
Sensor model	Sony IMX929
Sensor architecture (material)	cmos
Shutter type(s)	global-shutter
Sensor size	22.47 × 16.86 mm (28.09 mm, 28.1mm (Type 1.8))
Pixel size	2.74 μm × 2.74 μm

Pixel formats

Sensor bit depth	8-bit, 10-bit, 12-bit
RGB pixel formats	bayer8, bayer10, bayer12

Timing and gain

Max. frame rate	225 fps
Exposure time	4 μs to 60 s
Gain	0.0 dB to 48.0 dB

I/Os and power

Non-isolated lines	0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 2 x Open drain output,
Specific non-isolated lines	0 x RS232 input, 0 x RS232 output, 1 x RS422 input, 1 x RS422 output,
Opto-isolated lines	0 x Optical isolated input, 0 x Optical isolated input,
Power supply	24 to 25VDC
Power consumption	External: 28 W (typical)

Operating conditions

Operating temperature (housing)	-10 °C to 60 °C
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Mechanical properties

Body dimensions (L x W x H in mm)	92 × 58 × 58
Filter/protection glass	IR-Cut 680
IP class	IP30
Lens mount(s)	Flat Front
Weight	550 g

On-board memory and FPGA

Image buffer (RAM)	4032 MByte
Non-volatile memory (Flash)	32768 MByte

Interfaces

Digital interface	100gige
Interface connector	(QSFP28)

FW features - image control

Exposure modes	manual, auto, external
Gain modes	auto, manual
White balance modes	auto, manual
Image control features	roi, lut, color-transformation, mirror-image

FW features - camera control

Camera control features	PTP, RDMA support, User Sets, PWM(4), Sequencer,
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preliminary