Allied Vision



HR 100GigE

hr928C100GE-RF

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

preliminary

General

Model	hr928C100GE-RF
Product code	F004333
Product series	HR 100GigE
Status	Coming soon

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	8,256 × 8,256 (68.20 MP)
Sensor model	Sony IMX928
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	22.62 × 22.62 mm (31.99 mm, Type 2)
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	138 fps
Exposure time	8 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,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	24 to 25VDC
Power consumption	External: 33 W (typical)

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm)	109 × 69 × 69
IP class	IP30
Lens mount(s)	RF-Mount
Weight	570 g

On-board memory and FPGA

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

Interfaces

Digital interface	100gige
Interface connector	(QSFP28)
Vision standard	GigE Vision 3.0

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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