Allied Vision



HR 10GigE

hr65CXGE-RF

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

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General

Model	hr65CXGE-RF
Product code	F004341
Product series	HR 10GigE
Status	Prototype/engineering sample

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	9,344 × 7,000 (65.00 MP)
Sensor model	Gpixel GMAX3265
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	29.9 × 22.4 mm (37.36 mm, Type 2.3)
Pixel size	3.20 µm × 3.20 µm

Pixel formats

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

Imaging performance

Dynamic range	65.6 dB
SNR	40 dB

Timing and gain

Max. frame rate	17.4 fps
Exposure time	22 µs to 60 s
Gain	0.0 dB to 18.0 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, 4 x Open drain output,
Specific non-isolated lines	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Opto-isolated lines	1 x Optical isolated input, 0 x Optical isolated input,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	10 to 25VDC, Power over Ethernet (POE+, in option -P)
Power consumption	External: 14 W (typical)

Operating conditions

Operating temperature (housing)	-10 °C to 65 °C

Mechanical properties

Body dimensions (L x W x H in mm)	86 × 70 × 70
IP class	IP30
Lens mount(s)	RF-Mount
Weight	450 g

On-board memory and FPGA

Image buffer (RAM)	448 MByte
Non-volatile memory (Flash)	32 MByte

Interfaces

Digital interface	10gige
Interface connector	(RJ-45)
Vision standard	GigE Vision 2.0

FW features - image control

Exposure modes	manual, auto, external
Gain modes	auto, manual

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FW features - image control

White balance modes	auto, manual
Image control features	roi, lut, mirror-image

FW features - camera control

Trigger modes/sync	internal, software, external
Camera control features	User Sets, POE, PWM(4), Sequencer,

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