



HR 100GigE

hr927M100GE

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

General

Model	hr927M100GE
Product code	F004274
Product series	HR 100GigE
Status	Prototype/engineering sample

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	10,240 × 10,240 (104.90 MP)
Sensor model	Sony IMX927
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	28.06 × 28.06 mm (39.68 mm, Type 2.5)
Pixel size	2.74 μm × 2.74 μm

Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-bit
Monochrome pixel formats	mono10, mono12, mono8

Timing and gain

Max. frame rate	111.8 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: 30 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)	93 × 62 × 62
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	M58x0.75
Weight	550 g

On-board memory and FPGA

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

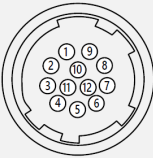
Interfaces

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

FW features - image control

Exposure modes	auto, external, manual
Gain modes	auto, manual
Image control features	dpc, ffc, lut, mirror-image, roi, shading-correction

I/O pin assignment

 Hirose 12 Pin	1	V In- (GND)
	2	V In+ (24 V DC)
	3	In 4 (RxD RS232)
	4	Out 4 (TxD RS232)
	5	In 1 (0 ... 24 V)
	6	In 2 (0 ... 24 V)
	7	Out 1 (open drain)
	8	Out 2 (open drain)
	9	In 3+ (opto In+)
	10	In 3- (opto In-)
	11	Out 3 (open drain)
	12	Out 0 (open drain)

preliminary