Allied Vision

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:	Coming soon

Sensor

Sensor type:	Area scan
Chroma:	Mono
Spectrum:	Visible
Spectral range:	400 nm to 1000 nm
Resolution:	10,248 × 10,248 (105.00 MP)
Sensor model:	Sony IMX927
Sensor architecture (material):	cmos
Shutter type(s):	global-shutter
Sensor size:	28.08 × 28.08 mm (39.71 mm, 39.7mm (Type 2.5))
Pixel size:	2.74 µm × 2.74 µm

Pixel formats

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

Timing and gain

Max. frame rate:	112 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

Mechanical properties

Body dimensions (L x W x H in mm):	101 × 70 × 70
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)

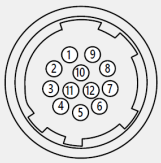
FW features - image control

Exposure modes:	Manual, Auto, External
Gain modes:	Auto, Manual
Image control features:	FW Features - Image Control

FW features - camera control

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

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)