

# 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-AMB-C                              |
| 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               |
| Exposure time:   | 4 $\mu$ s 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) |

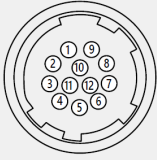
## FW features - image control

|                         |                             |
|-------------------------|-----------------------------|
| 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) |

preliminary