

IDS NXT rio GS18031M-GL (AS00027)

In series

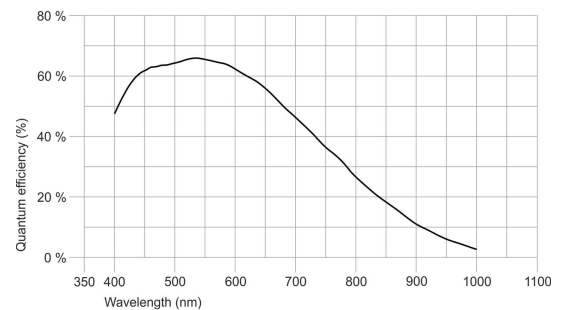
The model is in series and available for the long term.



Specification

Sensor

| | |
|---|---------------------|
| Sensor type | CMOS Mono |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Readout mode | Progressive scan |
| Pixel Class | 3 MP |
| Resolution | 3.15 Mpix |
| Resolution (h x v) | 2048 x 1536 Pixel |
| Aspect ratio | 4:3 |
| ADC | 12 bit |
| Color depth (camera) | 8 bit |
| Optical sensor class | 1/1.8" |
| Optical Size | 7.066 mm x 5.300 mm |
| Optical sensor diagonal | 8.83 mm (1/1.81") |
| Pixel size | 3.45 μm |
| Manufacturer | Sony |
| Sensor Model | IMX265LLR-C |
| Gain (master/RGB) | 24x/4x |
| AOI horizontal | - |
| AOI vertical | - |
| AOI image width / step width | - / - |
| AOI image height / step width | - / - |
| AOI position grid (horizontal/vertical) | - / - |
| Binning horizontal | - |
| Binning vertical | - |
| Binning method | - |
| Binning factor | - |
| Subsampling horizontal | - |
| Subsampling vertical | - |
| Subsampling method | - |
| Subsampling factor | - |



Model

| | |
|-----------------------------------|--------------------|
| Frame rate freerun mode | 20 fps |
| Frame rate trigger (continuous) | 22 fps |
| Frame rate trigger (maximum) | 22 fps |
| Exposure time (minimum - maximum) | 0.030 ms - 2000 ms |
| Power consumption | 6 W - 10 W |
| Image memory | 128 MB |

Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.

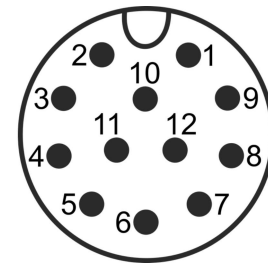
| | |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Device temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

Connectors

| | |
|---------------------|--|
| Interface connector | GigE RJ45, screwable |
| I/O connector | 12-pin M12 connector (Attend 216A-12MSR) |
| Power supply | 12 V - 24 V or PoE |

Pin assignment I/O connector

| | |
|----|---|
| 1 | Power supply 12-24 V DC (VBUS) |
| 2 | Reference level (ground) for power supply and RS-232 (VBUS GND) |
| 3 | Trigger input with optocoupler (Opto IN 0) |
| 4 | Input 1 with optocoupler (Opto IN 1) |
| 5 | Common reference level for all Opto IN (Opto IN COM) |
| 6 | Common reference level for all Opto OUT (Opto OUT COM) |
| 7 | Output 1 with optocoupler (Opto OUT 1) |
| 8 | Output 2 with optocoupler (Opto OUT 2) |
| 9 | Serial interface (RS232 RxD) |
| 10 | Serial interface (RS232 TxD) |
| 11 | Input 2 with optocoupler (Opto IN 2) |
| 12 | Flash output with optocoupler (Opto OUT 0) |



Design

| | |
|------------------|-----------------------------|
| Lens Mount | C-Mount |
| IP code | IP30 |
| Dimensions H/W/L | 34.0 mm x 44.0 mm x 73.0 mm |
| Mass | 168.5 g |

Features

| | | |
|-------------------|-----------------------------|---|
| Image Acquisition | Freerun | ✓ |
| | Software trigger | - |
| | Hardware trigger | ✓ |
| | Trigger controlled exposure | - |
| | Denoisier | - |
| | Long exposure | - |
| | Line scan | - |
| | Line scan highspeed | - |



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| | | |
|---------------------------|--------------------------------|-----|
| Flashing | Flashing | - |
| | PWM flashing | - |
| Image Adjustments | Auto exposure | - |
| | Auto gain | - |
| | Auto whitebalance | - |
| | Color correction | - |
| | Gamma | - |
| | LUT | - |
| | Mirror/flip | - |
| On-board Image Processing | Pixel formats | - |
| | Region of interest | - |
| | Decimation (FPGA) | - |
| | Decimation (Sensor) | - |
| | Binning (FPGA) | - |
| Others | Chunks | - |
| | Sequencer | - |
| | Firmware update | - |
| | 1st supported firmware version | 1.0 |