# IDS NXT rome Rev.1.2 GS29016C-HQ (1009157)

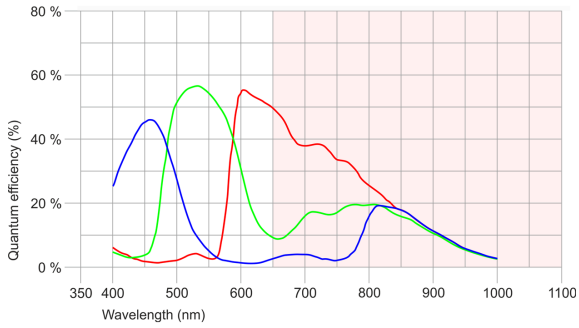
**Discontinued**
The model has been discontinued.



## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Color |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Pixel Class | 1.6 MP |
| Resolution | 1.58 Mpix |
| Resolution (h x v) | 1456 x 1088 Pixel |
| Aspect ratio | 4:3 |
| ADC | 12 bit |
| Color depth (camera) | 8 bit |
| Optical sensor class | 1/2.9" |
| Optical Size | 4.968 mm x 3.726 mm |
| Optical sensor diagonal | 6.21 mm 1/2.9" |
| Pixel size | 3.45 µm |
| CRA (Chief Ray Angle) | 0 ° |
| Manufacturer | Sony |
| Sensor Model | IMX273LQR-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 | - |
| Decimation (subsampling) horizontal | - |
| Decimation (subsampling) vertical | - |
| Decimation (subsampling) method | - |







IDS Imaging Development Systems Inc.
800 W Cummings Park Ste 2950 · Woburn, MA 01801-7221 · Phone +1 (781) 787-0048 · E-Mail usasales@ids-imaging.com

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## Model

| | |
|---|---|
| Frame rate freerun mode | 34 fps |
| Frame rate trigger (continuous) | 41 fps |
| Frame rate trigger (maximum) | 41 fps |
| Exposure time (minimum - maximum) | 0.035 ms - 2000 ms |
| Power consumption | 5.3 W - 12 W |
| Image memory | 128 MB |

## Ambient conditions

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

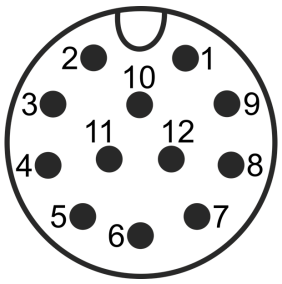
| | |
|---|---|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Allowed ambient temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 0 % - 80 % |

## Connectors

| | |
|---|---|
| Interface connector | GigE M12, 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 | IP65, IP67 |
| Dimensions H/W/L | 41.0 mm x 53.0 mm x 75.0 mm |
| Mass | 281 g |
| Housing material | Aluminum |

## Features

List of on-camera image pre-processing features.
All features of the table are available via our IDS peak software for image pre-processing on the host computer (sensor model dependent).

| | | |
|---|---|---|
| Image Acquisition | Freerun | ✓ |
| | Software trigger | ✓ |
| | Hardware trigger | - |
| | Trigger controlled exposure | - |
| | Denoiser | - |
| | Long exposure | - |
| | Line scan | - |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| | | |
|---|---|---|
| Flashing | Flashing | ✓ |
| | PWM flashing | - |
| Image Adjustments | Auto exposure | - |
| | Auto gain | ✓ |
| | Auto whitebalance | ✓ |
| | Color correction | - |
| | Gamma | ✓ |
| | LUT | - |
| | Mirror/flip | X/Y |
| On-board Image Processing | Pixel formats | |
| | Region of interest | - |
| | Decimation (FPGA) | - |
| | Decimation (Sensor) | (2,4)x(2,4) |
| | Binning (FPGA) | ✓ |
| Others | Chunks | - |
| | Sequencer | - |
| | Firmware update | - |
| | 1st supported firmware version | 3.0 |



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