

# Goldeye G

## Goldeye G-034 XSWIR 1.9 TEC2

Goldeye G-034 XSWIR 1.9 TEC2 high-speed camera is the fastest VGA resolution extended short wave infrared camera (XSWIR) with GigE Vision interface. Frame rates up to 303 fps at full resolution enable you to access versatile application fields and to speed up your processes.

### General

|                |                              |
|----------------|------------------------------|
| Model          | Goldeye G-034 XSWIR 1.9 TEC2 |
| Product series | Goldeye G                    |
| Status         | Available                    |

### Sensor

|                                |                                  |
|--------------------------------|----------------------------------|
| Sensor type                    | Area scan                        |
| Chroma                         | Mono                             |
| Spectrum                       | SWIR, eXtended SWIR              |
| Spectral range                 | 1100 nm to 1900 nm               |
| Resolution                     | 636 × 508 (0.32 MP)              |
| Sensor model                   | Progressive scan 0.32 MP         |
| Sensor architecture (material) | cmos-ingaas                      |
| Shutter type(s)                | Global shutter (GS)              |
| Sensor size                    | 9.54 × 7.62 mm (12.2 mm, Type 1) |
| Pixel size                     | 15.00 µm × 15.00 µm              |

### Pixel formats

|                  |        |
|------------------|--------|
| Sensor bit depth | 14-bit |
|------------------|--------|

### Timing and gain

|                 |                   |
|-----------------|-------------------|
| Max. frame rate | 303 fps           |
| Exposure time   | 1 µs to 20.00 ms  |
| Gain            | 0.0 dB to 33.0 dB |

## I/Os and power

|                             |                                |
|-----------------------------|--------------------------------|
| Non-isolated lines          | LVTTTL I/Os: 1 input, 1 output |
| Specific non-isolated lines | 115 200 Baud, 8N1 (adjustable) |
| Opto-isolated lines         | 1 Input, 2 Outputs             |
| Power supply                | 10.8 V DC to 30.0 V or via PoE |
| Power consumption           | 21 W (at 12 VDC), <23 W (PoE)  |

## Operating conditions

|                                 |                             |
|---------------------------------|-----------------------------|
| Operating temperature (housing) | -20 °C to 55 °C ((housing)) |
|---------------------------------|-----------------------------|

## Mechanical properties

|                                   |              |
|-----------------------------------|--------------|
| Body dimensions (L x W x H in mm) | 90 × 80 × 80 |
| Weight                            | 740 g        |

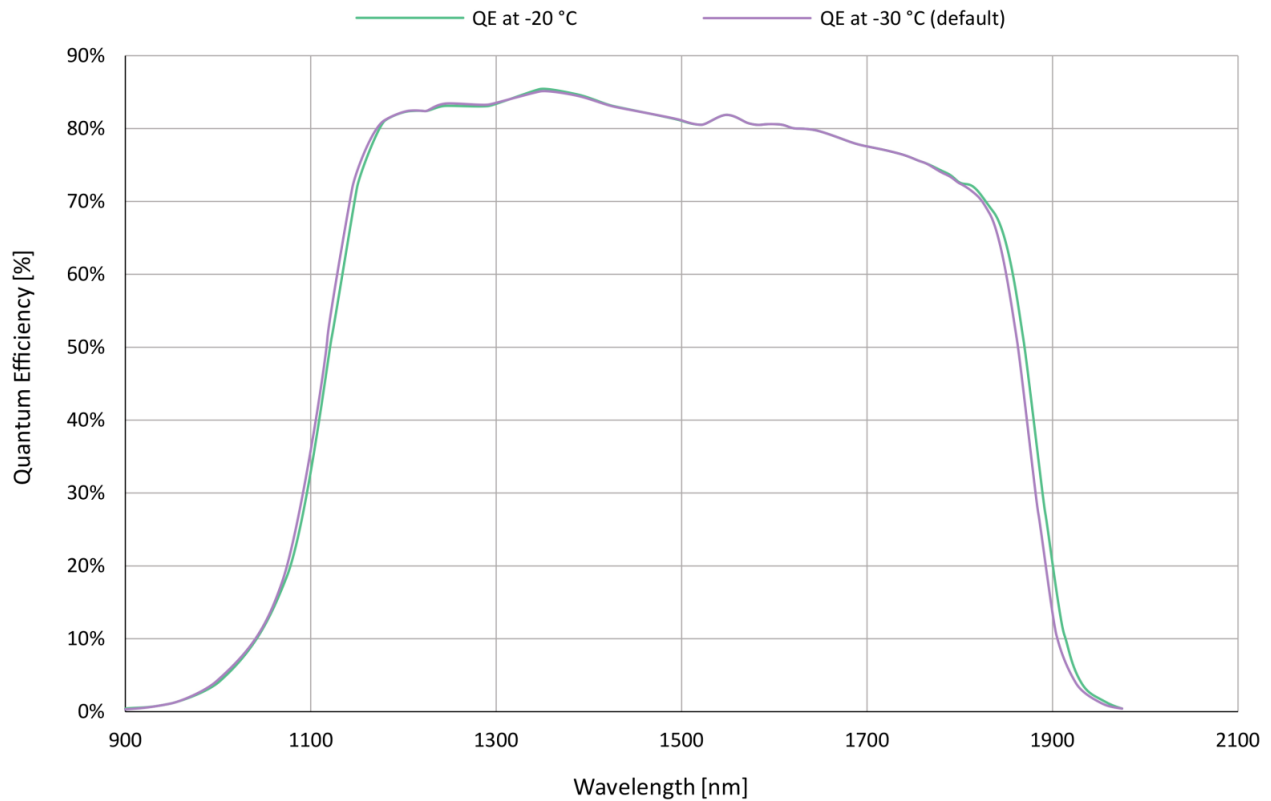
## On-board memory and FPGA

|                             |           |
|-----------------------------|-----------|
| Image buffer (RAM)          | 256 MByte |
| Non-volatile memory (Flash) | 262 MByte |

## Interfaces

|                   |                                           |
|-------------------|-------------------------------------------|
| Digital interface | IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) |
|-------------------|-------------------------------------------|

## Quantum Efficiency



## Technical Drawing

