

## **Goldeye G**

### Goldeye G-034 SWIR TEC2

Preliminary product information. Features and technical specifications are subject to change without notice.

The Goldeye G-034 TEC2 high-speed camera is the fastest VGA resolution short wave infrared camera (SWIR) 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 SWIR TEC2      |
| Product series | Goldeye G                    |
| Status         | Prototype/engineering sample |

#### Sensor

|                                |                                  |
|--------------------------------|----------------------------------|
| Sensor type                    | Area scan                        |
| Chroma                         | Mono                             |
| Spectrum                       | SWIR                             |
| Spectral range                 | 900 nm to 1700 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 10 s      |
| 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

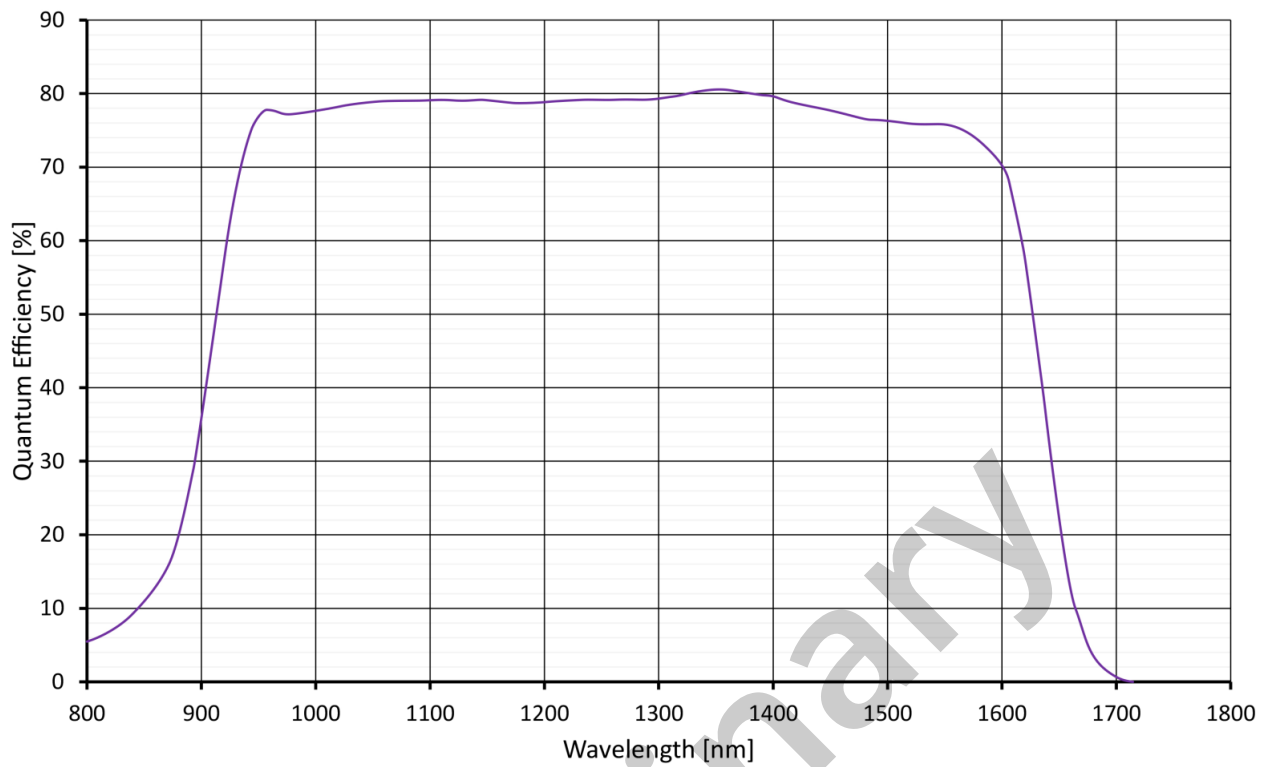
|                             |           |
|-----------------------------|-----------|
| Image buffer (RAM)          | 256 MByte |
| Non-volatile memory (Flash) | 262 MByte |

## Interfaces

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

## Quantum Efficiency

Goldeye G/CL-034 TEC2 Absolute QE



## Technical Drawing

