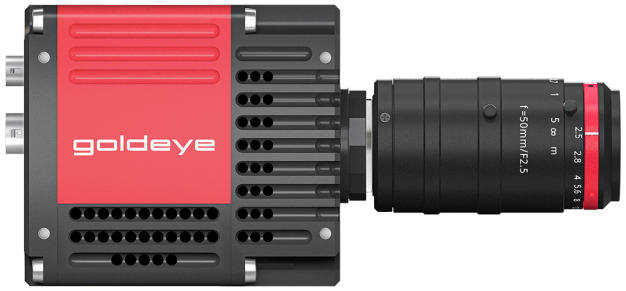
Allied Vision




# Goldeye G

## Goldeye G-008 XSWIR 2.2 TEC2

The Goldeye G-008 XSWIR 2.2 TEC2 is the fastest QVGA resolution short wave infrared camera with GigE Vision interface that is optimized for scientific grade applications often requiring long exposure times. With frame rates up to 344 fps at full resolution, versatile application fields can be addressed.

## General

| | |
|---|---|
| Model | Goldeye G-008 XSWIR 2.2 TEC2 |
| Product series | Goldeye G |
| Status | Available |

## Sensor

| | |
|---|---|
| Sensor type | Area scan |
| Chroma | Mono |
| Spectrum | eXtended SWIR, SWIR |
| Spectral range | 1200 nm to 2200 nm |
| Resolution | 320 × 256 (0.10 MP) |
| Sensor model | FPA 320 × 256 \| 30 µm \| Extended Range InGaAs |
| Sensor architecture (material) | InGaAs |
| Sensor size | 12.3 mm ø (12.3mm (diagonal)) |
| Pixel size | 30.00 µm × 30.00 µm |

## Pixel formats

| | |
|---|---|
| Sensor bit depth | 8-bit to 14-bit |
| Monochrome pixel formats | Mono8, Mono10, Mono10p, Mono10Packed, Mono12, Mono12p, Mono12Packed, Mono14, Mono16 |

## Timing and gain

| | |
|---|---|
| Max. frame rate | 344 fps |

## I/Os and power

| | |
|---|---|
| Non-isolated lines | LVTTL I/Os: 1 Input, 1 Output |
| Specific non-isolated lines | 115 000 Baud, 8N1 (adjustable) |

## I/Os and power

| | |
|---|---|
| Opto-isolated lines | 1 Input, 2 Outputs |
| Power supply | 10.8 V to 30.0 V or via PoE |
| Power consumption | 20 W (at 12 VDC), <21 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 |

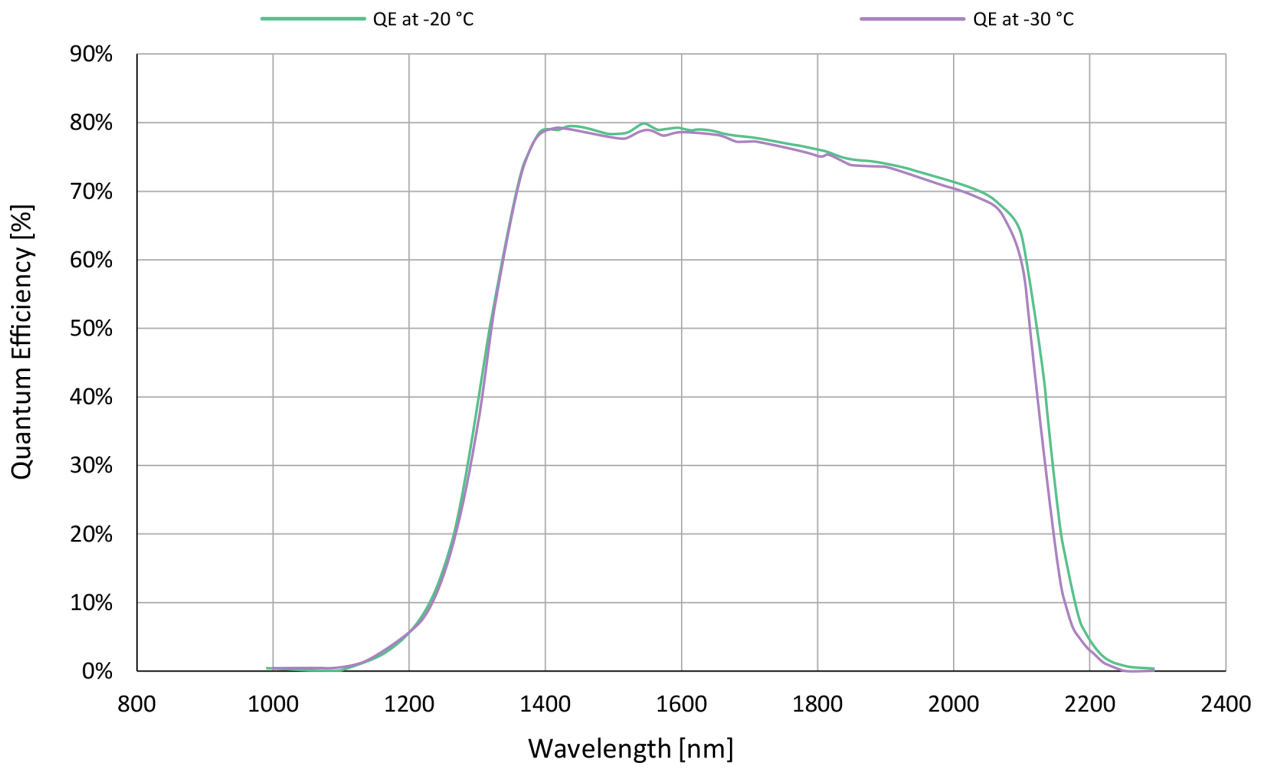
## On-board memory and FPGA

| | |
|---|---|
| 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