

■ 1024 x 1 pixels

■ 15 kHz

WAVE Series 

## ➤ WAL-1001-GE

High performance SWIR line scan camera

**GigE**<sup>®</sup>  
VISION

## Tentative Version



- *High-performance SWIR line scan camera with GigE Vision interface*
- *1024 x 1 pixel output up to 15kHz*
- *12.8mm wide sensor with 12.5  $\mu$ m square pixels*
- *Supports horizontal image flip*
- *Video output: Mono8/10/12/14-bit*
- *Gain control includes digital gain and analog gain*
- *IPS: Non-uniformity correction, online FFC (Flat Field Correction), DPC (Defective Pixel Correction), black level control and LUT*
- *Lens mount: C-Mount*

# Specifications for WAL-1001-GE

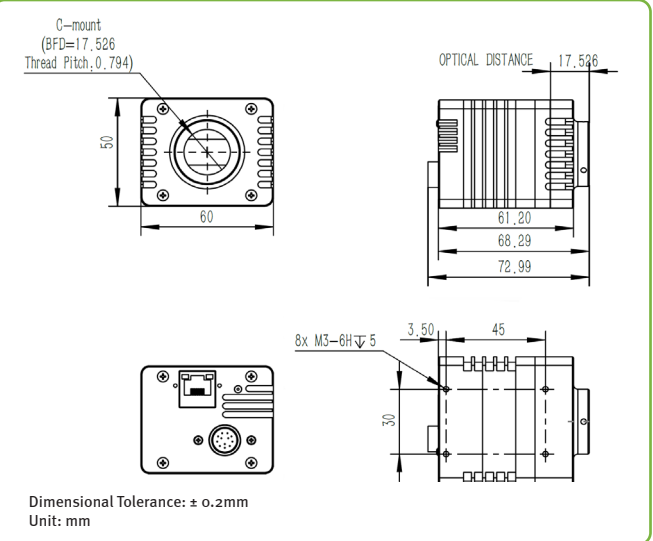
# Wave Series

Specifications	WAL-1001-GE
Sensor	InGaAs global shutter
Spectral range	900nm to 1700nm
Effective Pixels	1024 x 1
Line rate	up to 15kHz
Sensor width	12.8mm
Pixel size	12.5 μm x 12.5 μm
Quantum Efficiency	83.25%@1435nm (typical peak value)
Dynamic Range	69dB
Signal-to-Noise Ratio	46dB
Interface	GigE Vision
Video output	Mono8, Mono10, Mono12, Mono14
Gain	Digital Gain (1 to 32) Analog Gain (Low Gain & High Gain)
Trigger source	Single-ended & RS422 Differential Line trigger
Line Trigger Divider	1 to 32
Exposure Mode	Timed
Exposure Time	40 μs ~ 992 μs Exposure time can be longer at slower line rates.
IPS (Image processing settings)	Non-uniformity correction, online FFC (Flat Field Correction), DPC (Defective Pixel Correction), Black level, LUT (Look Up Table)
LUT	3 preset options
Lens mount	C-Mount (BFD: 17,526mm)
Operating temp. (ambient)	-10°C to +50°C (20 to 80% non-condensing)
Storage temp. (ambient)	-30°C to +70°C (20 to 80% non-condensing)
Vibration	5G (55 Hz to 500 Hz, XYZ directions)
Shock	15G
Regulations	CE (EN IEC 61326-1:2021) FCC Part 15 Subpart B, RoHS, KC
Power supply	12-pin: DC 12 V +/-1V PoE: not supported
Power consumption	4.8W Max @ 12V DC
Dimensions (H x W x D)	60mm x 50 mm x 61.2 mm (without connector and lens mount protrusions)
Weight	320g

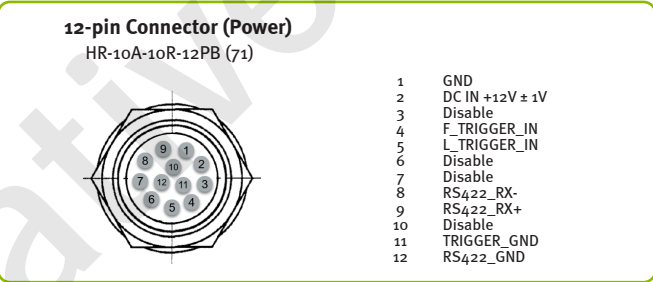
## Ordering Information

WAL-1001-GE	1K High performance SWIR line scan camera
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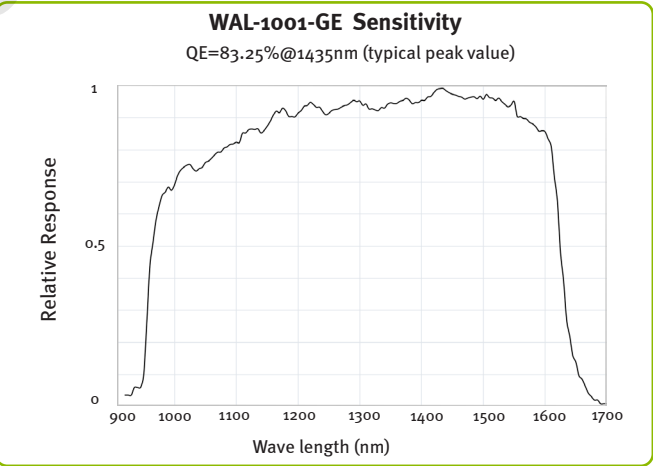
## Dimensions



## Connector pin-out



## Spectral Response



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