

## ➤ WAA-1300-GE-TEC

High performance SWIR area scan camera

**GigE**<sup>®</sup>  
VISION

## Preliminary Version



- *High-performance Visible+SWIR wide waveband area scan camera with GigE Vision interface*
- *1280 x 1024 pixel output up to 90fps*
- *5  $\mu$ m square pixels*
- *1/2" Sony IMX990 InGaAs image sensor*
- *Supports ROI, Binning and image flip*
- *Video output: Mono8/10/12-bit*
- *Gain control from 0dB to 42dB*
- *Supports FFC (Flat Field Correction), DPC (Defective Pixel Correction), brightness control, contrast control, spatial noise reduction control, black level control, gamma and LUT*
- *Supports TEC cooling*
- *Lens mount: C-Mount*

# Specifications for WAA-1300-GE-TEC

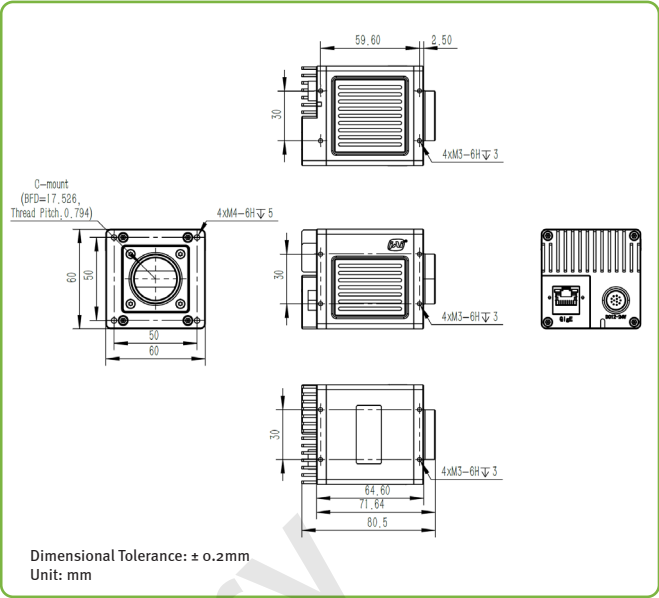
# Wave Series

Specifications	WAA-1300-GE-TEC
Sensor	1/2" InGaAs global shutter (IMX990)
Spectral range	400nm to 1700nm
Effective Pixels	1280 x 1024
Frame rate	up to 90fps
Active area	6.4mm(H) x 5.12mm(V), 8.2mm(diagonal)
Pixel size	5 μm x 5 μm
Quantum Efficiency	77% @1200nm (typical peak value)
Dynamic Range	56dB (TBD)
Signal-to-Noise Ratio	50dB (TBD)
Temperature Control	Single-stage thermo-electric cooling (TEC1)
Interface	GigE Vision
Video output	Mono8, Mono10, Mono10p, Mono12, Mono12p
Gain	0dB to 42dB
Binning	2 x 2, 4 x 4 (Sum, Average)
Trigger source	Software, Opto, Multiplexed I/O, RS422 Differential trigger
Exposure Mode	Timed, Trigger Width
Exposure Time	3 μs ~ 983 ms
ISP	FFC (Flat Field Correction), DPC (Defective pixel correction), brightness control, contrast control, spatial noise reduction control, Black level, Gamma, LUT (Look Up Table)
Gamma	0.1 ~ 5
LUT	1 user-defined, 3 preset options
Lens mount	C-Mount (BFD: 17.526mm)
Operating temp. (ambient)	-20°C to +55°C (20 to 80% non-condensing)
Storage temp. (ambient)	-40°C to +60°C (20 to 80% non-condensing)
Vibration	10G (20 Hz to 200 Hz, XYZ directions)
Shock	80G
Regulations	CE (EN 55032:2015+A1+A11, EN 55035:2017+A11, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019), FCC Part 15 Subpart A, RoHS, KC (TBD)
Power supply	12-pin: DC 12 V to 24V +/-15% PoE: not supported
Power consumption	6.5W Typ @ 12V DC (TEC=Off) (TBD) 10W Max @ 12V DC (TEC=On) (TBD)
Dimensions (H x W x D)	60.0 mm x 60.0 mm x 80.5 mm
Weight	400g (TBD)

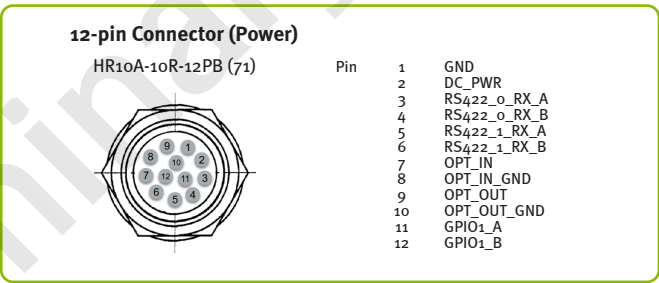
## Ordering Information

WAA-1300-GE-TEC	1.3M High performance Visible+SWIR wide waveband area scan camera with TEC cooling
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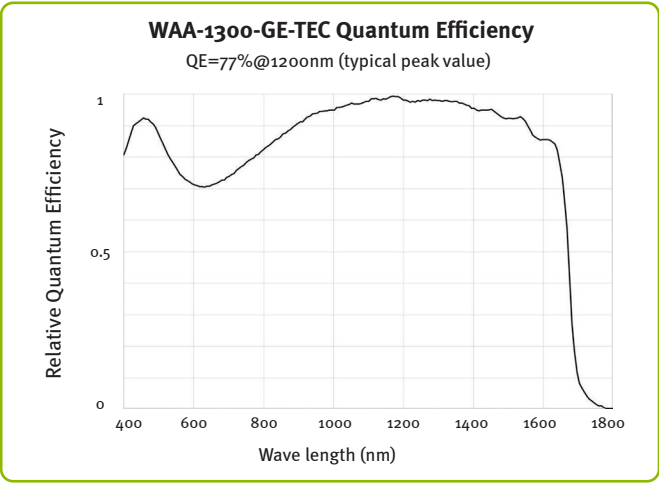
## Dimensions



## Connector pin-out



## Spectral Response



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See the possibilities

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