

➤ WAA-0300-GE

High performance SWIR area scan camera

GigE[®]
VISION

Tentative Version



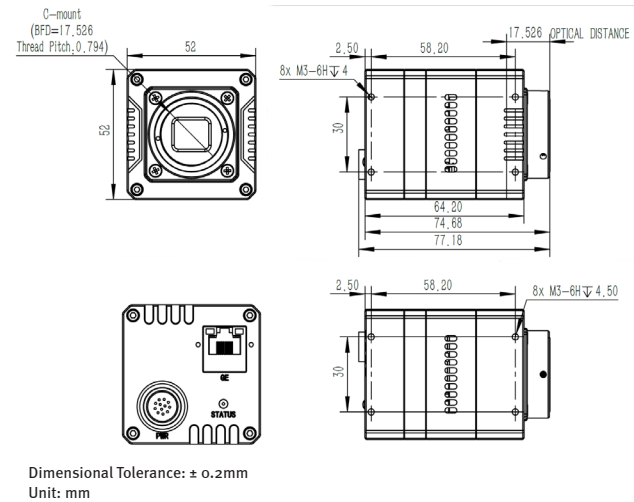
- *High-performance Visible+SWIR area scan camera with GigE Vision interface*
- *640 x 512 pixel output up to 150fps*
- *15 μ m square pixels*
- *Supports polar select, ROI, binning and image flip*
- *Video output: Mono8/10/12/14-bit*
- *Gain control includes digital gain and analog gain*
- *IPS: FFC (Flat Field Correction), DPC (Defective Pixel Correction), brightness control, contrast control, temporal denoise control, spatial denoise control, enhancement control, black level control, gamma and LUT*
- *Supports TEC cooling*
- *Lens mount: C-Mount*

Specifications for WAA-0300-GE

WAVE Series

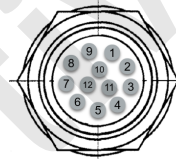
Specifications	WAA-0300-GE
Sensor	1/1.3" SWIR global shutter
Spectral range	300nm to 1400nm
Effective Pixels	640 x 512
Frame rate	up to 150fps
Active area	9.6mm(H) x 7.68mm(V), 12.29mm(diagonal)
Pixel size	15 μm x 15 μm
Quantum Efficiency	33%@650nm (typical peak value)
Dynamic Range	69dB
Signal-to-Noise Ratio	56dB
Temperature Control	Single-stage thermo-electric cooling and heating (TEC ₁)
Interface	GigE Vision
Video output	Mono8, Mono10, Mono12, Mono14
Gain	Digital Gain (1 to 24) Analog Gain (Low Gain & High Gain)
Trigger source	Single-ended & RS422 Differential trigger
Exposure Mode	Timed
Exposure Time	50 μs ~ 1 s Exposure time can be longer at slower frame rates.
IPS (Image processing settings)	FFC (Flat Field Correction), DPC (Defective pixel correction), brightness control, contrast control, temporal denoise control, spatial denoise control, enhancement control, Black level, Gamma, LUT
Gamma	0.1 to 5
LUT	1 user-defined, 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 to 24V +/-10% PoE: not supported
Power consumption	8W Max @ 12V DC
Dimensions (H x W x D)	52mm x 52 mm x 64.2 mm (without connector and lens mount protrusions)
Weight	300g

Dimensions



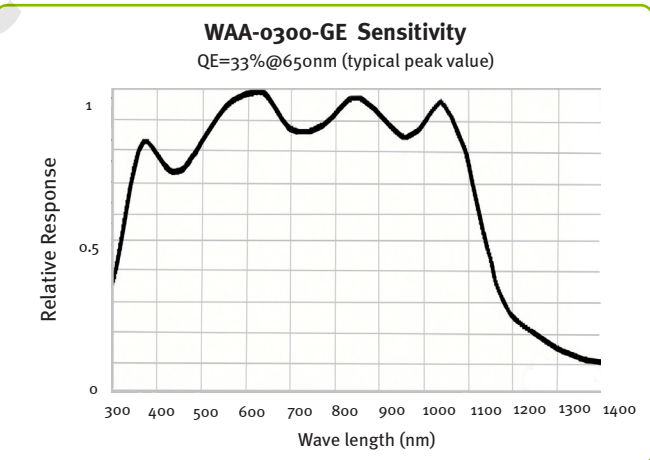
Connector pin-out

12-pin Connector (Power) HR-10A-10R-12PB (71)



- 1 GND
- 2 DC IN +12V to +24V
- 3 SHUTTER_GND
- 4 TRIGGER_IN
- 5 SHUTTER_OUT
- 6 RS422_TX+
- 7 RS422_TX-
- 8 RS422_RX-
- 9 RS422_RX+
- 10 Disable
- 11 TRIGGER_GND
- 12 RS422_GND

Spectral Response



Ordering Information

WAA-0300-GE	0.3M High performance Visible+SWIR area scan camera
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Europe, Middle East & Africa
Phone +45 4457 8888

Asia Pacific
Phone +81 45 440 0154

Americas
Phone +1 312 763 6570

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See the possibilities

