

➤ WAA-5200-MCL

High performance SWIR area scan camera



Tentative Version



- *High-performance Visible+SWIR wide waveband area scan camera with CameraLink interface*
- *2560 x 2048 pixel output up to 130fps*
- *3.45 μm square pixels*
- *1/1.4" Sony IMX992 InGaAs image sensor*
- *CameraLink interface with CL pixel clock 85MHz*
- *Supports polar select, ROI, Binning and image flip*
- *Video output: Mono8/10/12-bit*
- *Gain control from 0dB to 42dB*
- *IPS: 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-5200-MCL

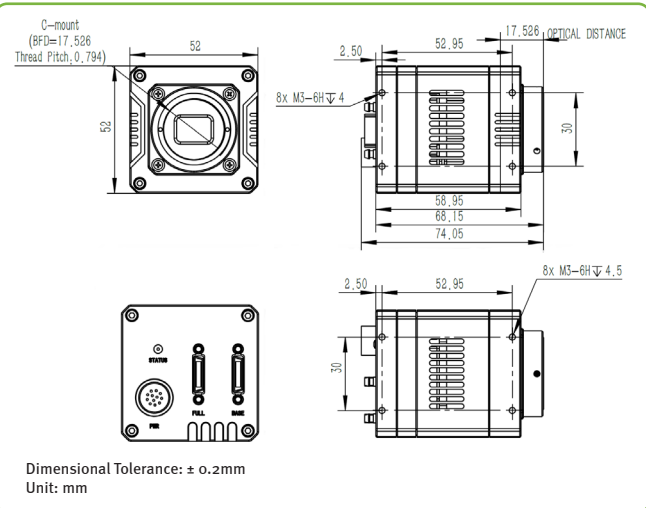
WAVE Series

Specifications	WAA-5200-MCL
Sensor	1/1.4" InGaAs global shutter (IMX992)
Spectral range	400nm to 1700nm
Effective Pixels	2560 x 2048
Frame rate	up to 130fps
Active area	8.832mm(H) x 7.066mm(V), 11.31mm(diagonal)
Pixel size	3.45 μm x 3.45 μm
Quantum Efficiency	77%@1200nm (typical peak value)
Dynamic Range	50dB
Signal-to-Noise Ratio	46dB
Temperature Control	Single-stage thermo-electric cooling and heating (TEC1)
Interface	CameraLink (v2.0), 2 x Mini CameraLink connector
CL Pixel Clock (MHz)	85
Video output	Configuration: Base, Medium, Full, Eighty Bit (Deca) Mono8, Mono10, Mono12
Gain	0dB to 42dB
Trigger source	CC & Single-ended & RS422 Differential trigger
Exposure Mode	Timed
Exposure Time	14 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, spatial noise reduction control, Black level, Gamma, LUT (Look Up Table)
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% PoCL: not supported
Power consumption	13W Max @ 12V DC
Dimensions (H x W x D)	52mm x 52 mm x 58.95 mm (without connector and lens mount protrusions)
Weight	260g

Ordering Information

WAA-5200-MCL	5M High performance Visible+SWIR wide waveband area scan camera
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Dimensions

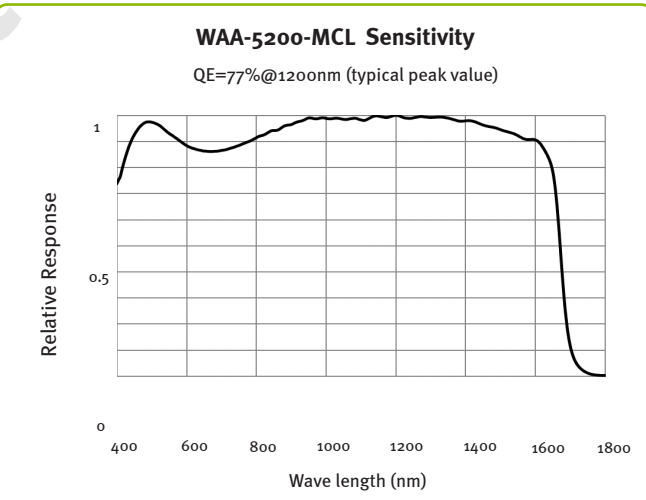


Connector pin-out

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

- 1 GND
- 2 DC IN +12V to +24V
- 3 Disable
- 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



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