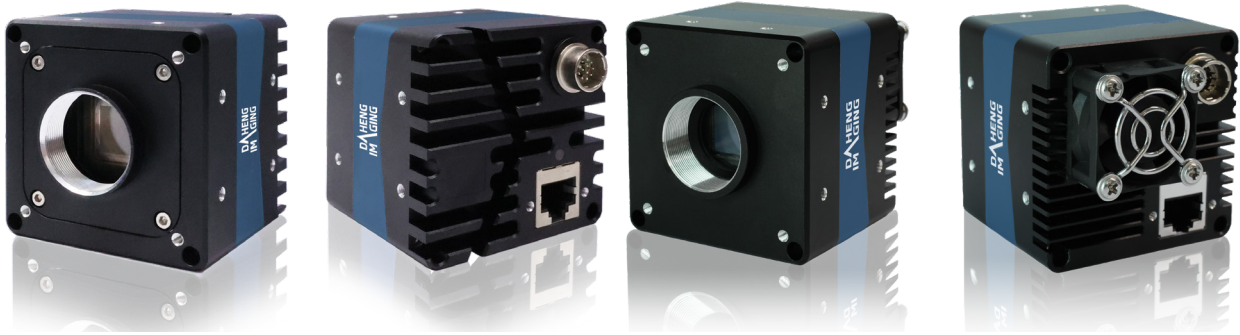


MARS-2621-42GTM(-NF)-NIR

26MP CMOS 10GigE Area Scan Camera



GEN< i >CAM



The MARS-2621-42GTM(-NF)-NIR is a NIR enhanced GigE Vision camera with the Gpixel GMAX0505 CMOS sensor. The MARS-2621-42GTM(-NF)-NIR is capable of 10Gbit/s maximum transfer data rate, and has opto-isolated I/Os. Thanks to locking screw connectors, the MARS cameras can secure the reliability of cameras deployed in harsh environments. The MARS cameras are industrial cameras with high reliability and high performance ratio.

Applications

Suitable for 3C, lithium battery, photovoltaic, railway, AR and other industrial applications.

Features

- Time Stamp, Horizontal Binning, Decimation, Reverse X/Y
- The Sequencer Control supports multiple sets of parameters configuration
- Trigger mode: Frame Start /Frame Burst Start
- Gain, GainAuto, Gamma, Black Level, Digital Shift, Flat Field Correction
- Static Defect Correction, Sharpness, Noise Reduction
- Timer, Counter, LUTs and User Set Control
- Remove Parameter Limit to expand the range of Parameter
- Data storage area for saving algorithm coefficients and parameter configuration

Specifications

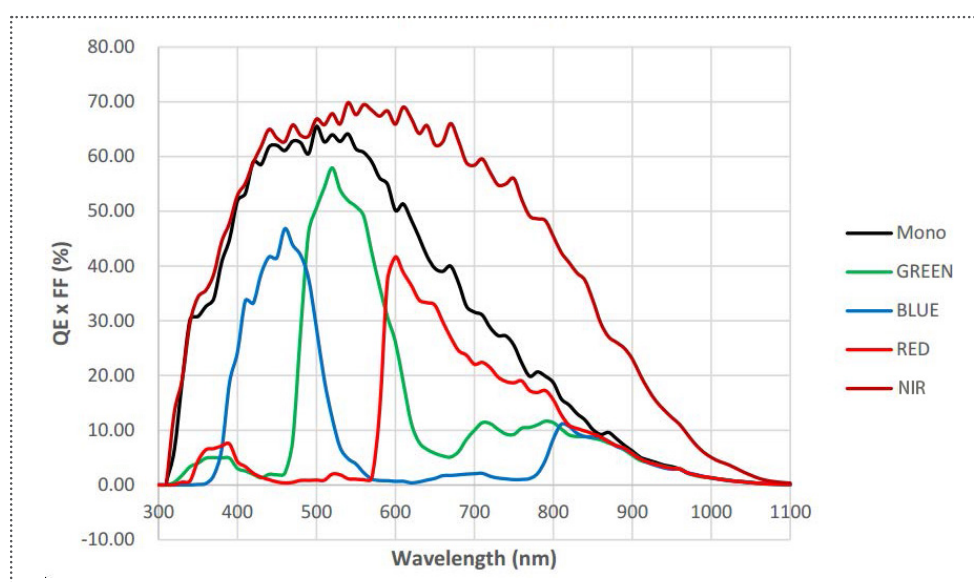
Model	MARS-2621-42GTM-NIR	MARS-2621-42GTM-NF-NIR
Resolution	5120(H) × 5120(V)	
Sensor	Gpixel GMAX0505 Global shutter CMOS	
Sensor Format	1.1"	
Pixel Size	2.5μm × 2.5μm	
Frame Rate	41.8 fps	
ADC	12 bit	
Pixel Bit Depth	8 bit, 12 bit	
Mono/Color	Mono, NIR	
Pixel Formats	Mono8 / Mono12	
SNR	35.54 dB	
Exposure Time	14μs~1s, Actual Steps: 1 row period	
Gain	0dB~16dB, Default: 0dB, Steps: 0.1dB	
Binning	1×1, 2×1 (No Vertical Binning)	
Decimation	Horizontal FPGA, Vertical Sensor: 1×1, 1×2, 2×1, 2×2 (No vertical decimation)	
Synchronization	Hardware trigger, software trigger	
Acquisition Control	Single frame, Continuous, Software trigger, Hardware trigger	
Reverse X/Y	Reverse X/Y	
I/O Interface	1 input and 1 output with opto-isolated, 1 bidirectional programmable GPIO	
Data Interface	10GigE	
Power Supply	12VDC-10% ~ 24VDC+10%	
Typical Power	10.0W @ 24VDC (without fan), 10.8W @ 24VDC (with fan)	
Operating Temp.	0° C ~ +50° C	
Storage Temp.	-20° C ~ +70° C	
Operating Humidity	10% ~ 80%	
Lens Mount	C	
Cooling	-NF: Fan cooling	
Dimensions	60(W) × 60(H) × 54(L) mm (without lens adapter, fan or connectors)	
Weight	320g (without fan), 340g (with fan)	
OS	Win10/Win11 32bit, 64bit OS, 64bit OS is recommended	
Conformity	CE, RoHS, FCC, ICES, UKCA, GigE Vision®, GenICam®	

I/O Interface

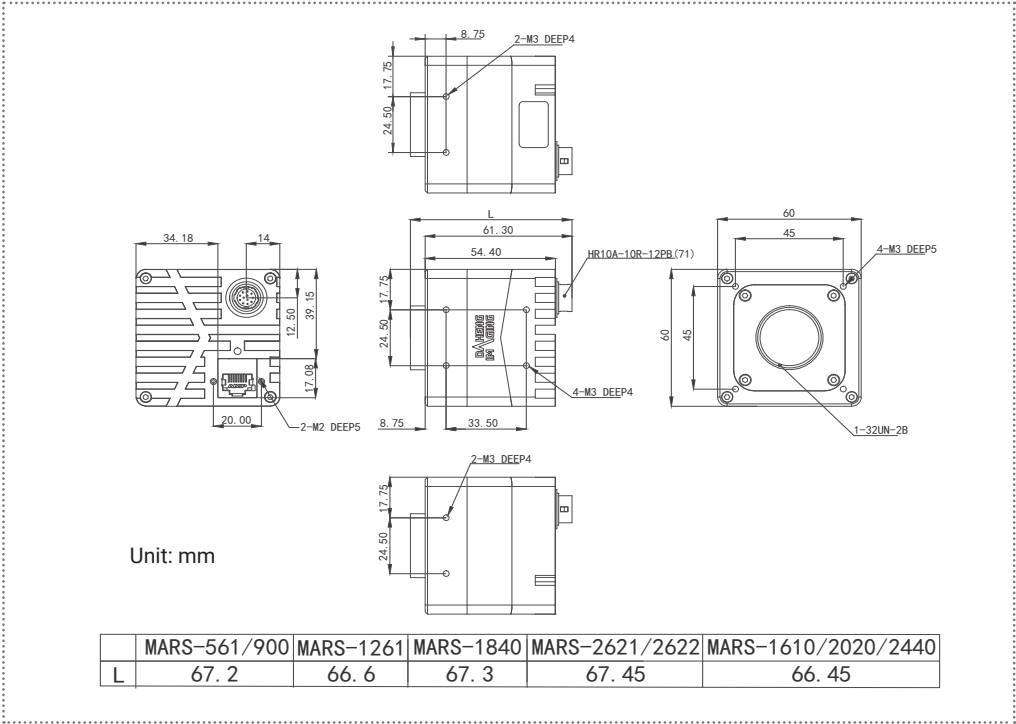


Pin	Definition	Description
1	Line 0+	Opto-isolated input +
2	GND	PWR GND & GPIO GND
3	Line 0-	Opto-isolated input -
4	POWER_IN	Camera external power 12V (-10%) ~ +24V (+10%)
5	Line 2	GPIO input/output
6	RS232 Rx	RS232 receive
7	Line 1-	Opto-isolated output -
8	Line 1+	Opto-isolated output +
9	GND	PWR GND & GPIO GND
10	GND	PWR GND & GPIO GND
11	POWER_IN	Camera external power 12V (-10%) ~ +24V (+10%)
12	RS232 Tx	RS232 transmit

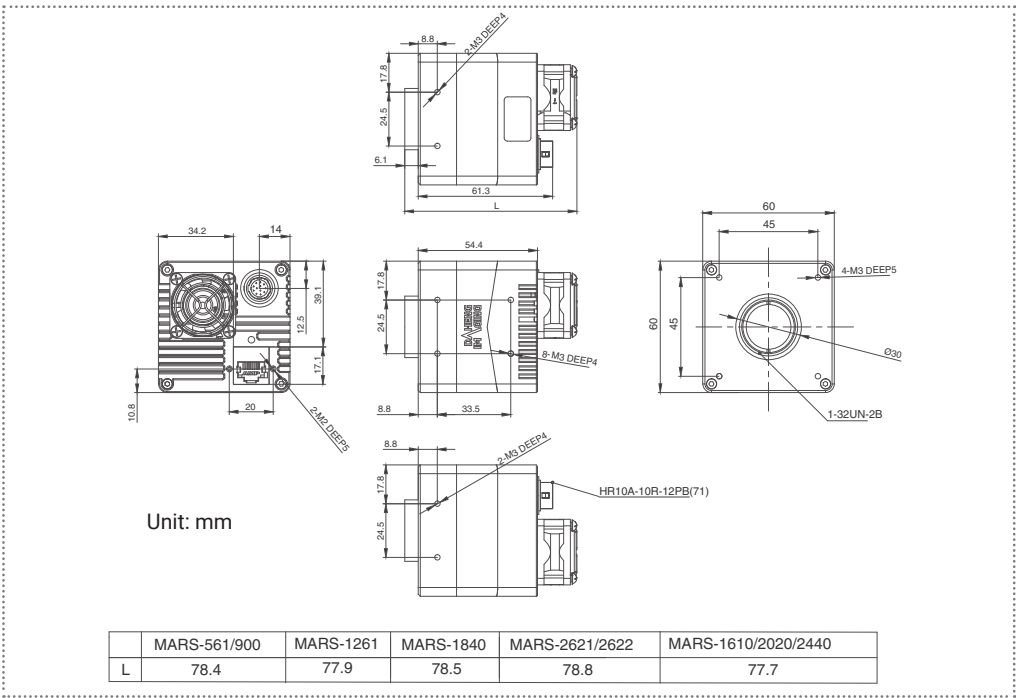
Spectral Response



Technical Drawing



MARS-2621-42GTM-NIR



MARS-2621-42GTM-NF-NIR

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