

MARS-6500-18GTM/C

65MP CMOS 10GigE Area Scan Camera

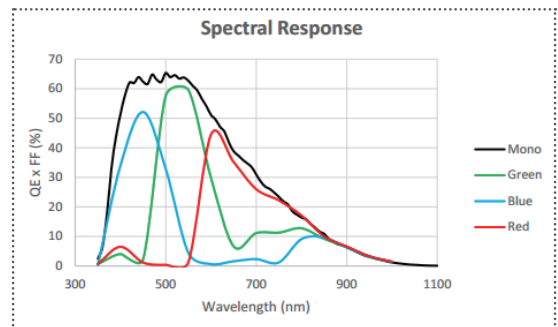


The MARS-6500-18GTM/C is a monochrome/color GigE Vision camera with the Gpixel GMAX3265 CMOS sensor. The MARS-6500-18GTM/C is capable of 10Gbit/s maximum transfer data rate, and has opto-isolated I/Os. Thanks to locking screw connectors, the MARS cameras can secure the reliability of cameras deployed in harsh environments. The MARS cameras are industrial digital cameras with high reliability and high performance ratio.

Applications

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

Spectral Response



Features

- Time Stamp, Binning, Decimation, Reverse X/Y
- The Sequencer Control supports multiple sets of parameters configuration of FFC
- Trigger mode: Frame Start /Frame Burst Start
- Gain, GainAuto, Gamma, Black Level, Digital Shift, Flat Field Correction
- Color models support Light Source Preset, Color Transformation Control and Saturation
- Static Defect Correction, Hot Pixel Correction, Sharpness, Noise Reduction(Mono)
- Timer, Counter, LUTs and storable user sets
- Remove Parameter Limit to expand the range of Parameter
- Data storage area for saving algorithm coefficients and parameter configuration

Specifications

Model	MARS-6500-18GTC	MARS-6500-18GTM
Resolution	9344(H) × 7000(V)	
Sensor	Gpixel GMAX3265, Global shutter CMOS	
Sensor Format	2.3"	
Pixel Size	3.2μm × 3.2μm	
Frame Rate	17.73fps	
ADC	12bit	
Pixel Bit Depth	8bit, 12bit	
Mono/Color	Color	Mono
Pixel Formats	Bayer GB8 / Bayer GB12	Mono8 / Mono12
SNR	40.42dB	40.05dB
Exposure Time	14μs ~ 1s	
Gain	0dB ~ 16dB; Default: 0dB, Steps: 0.1dB	
Binning	1×1, 1×2, 2×1, 2×2	
Decimation	Horizontal FPGA, Vertical Sensor: 1×1, 1×2, 2×1, 2×2	
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%	
Power Consumption	< 15W @ 12VDC	
Operating Temp.	0° C ~ +50° C	
Storage Temp.	-20° C ~ +70° C	
Operating Humidity	10% ~ 80%	
Lens Mount	M58-D1(11.48mm), M58(19.5mm), F	
Dimensions	74mm × 74mm × 59mm (without lens adapter or connectors)	
Weight	540g	
OS	Win10/Win11 32bit, 64bit OS, 64bit OS is recommended	
Conformity	CE, RoHS, GigE Vision, GenICam	

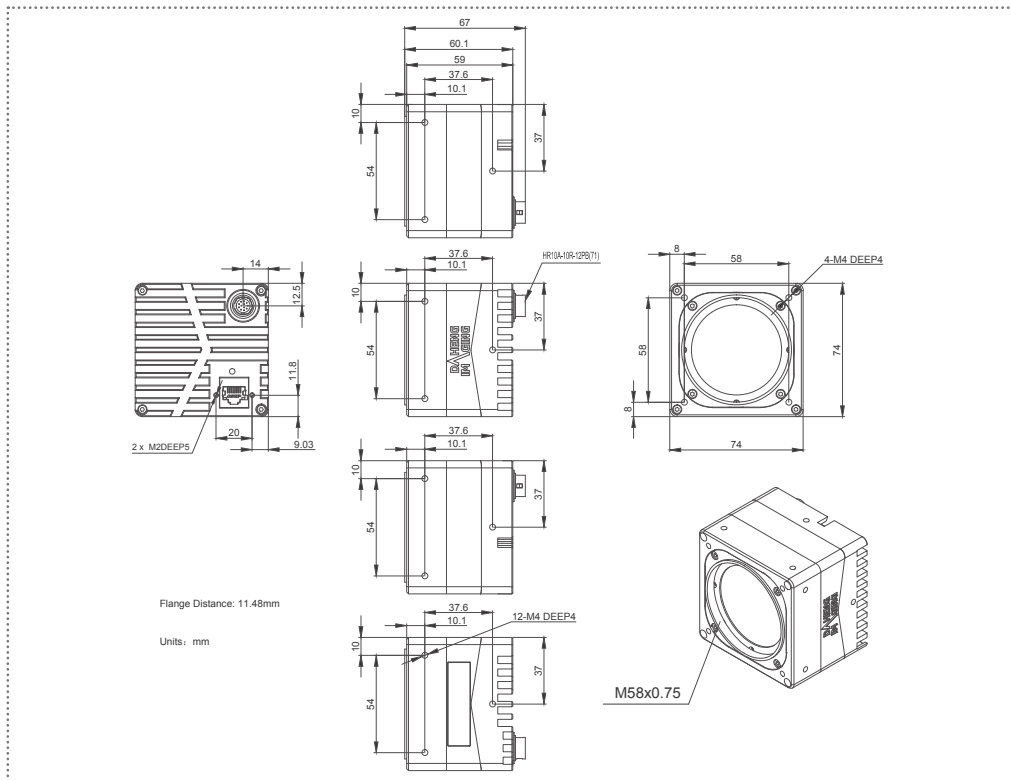
I/O Interface



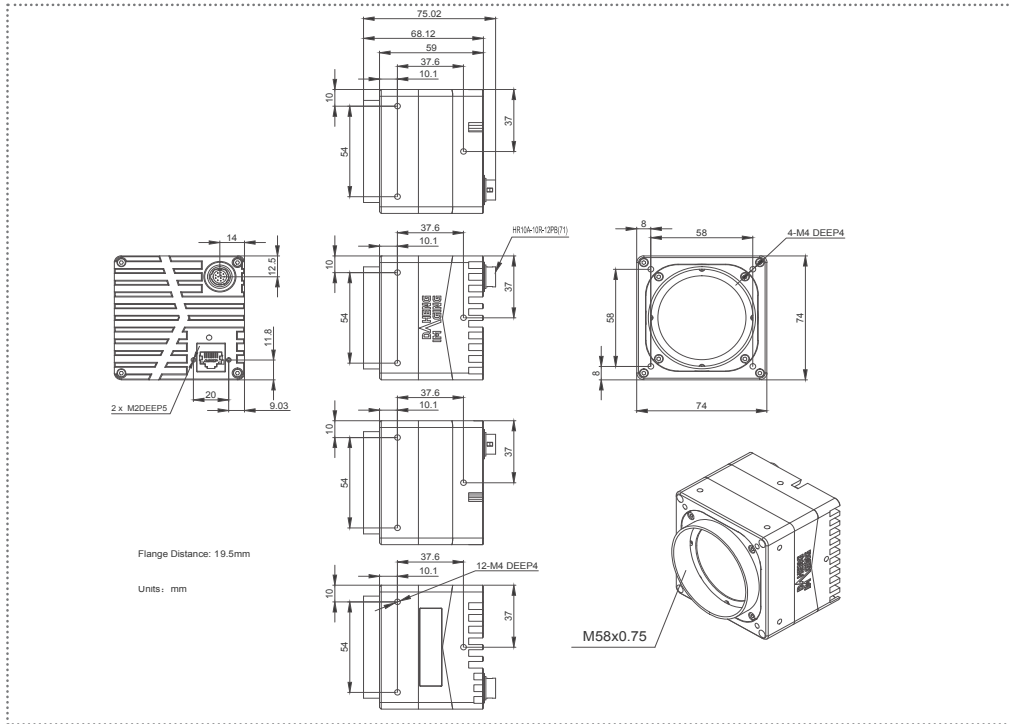
Pin	Definition	Core Color	Description
1	Line 0+	Green	Opto-isolated input +
2	GND	Blue	PWR GND & GPIO GND
3	Line 0-	Grey	Opto-isolated input -
4	POWER_IN	Purple	Camera external power 12V (-10%) ~ +24V (+10%)
5	Line 2	Orange	GPIO input/output
6	RS232 Rx	Pink	RS232 receive*
7	Line 1-	White Green	Opto-isolated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

*Not currently supported

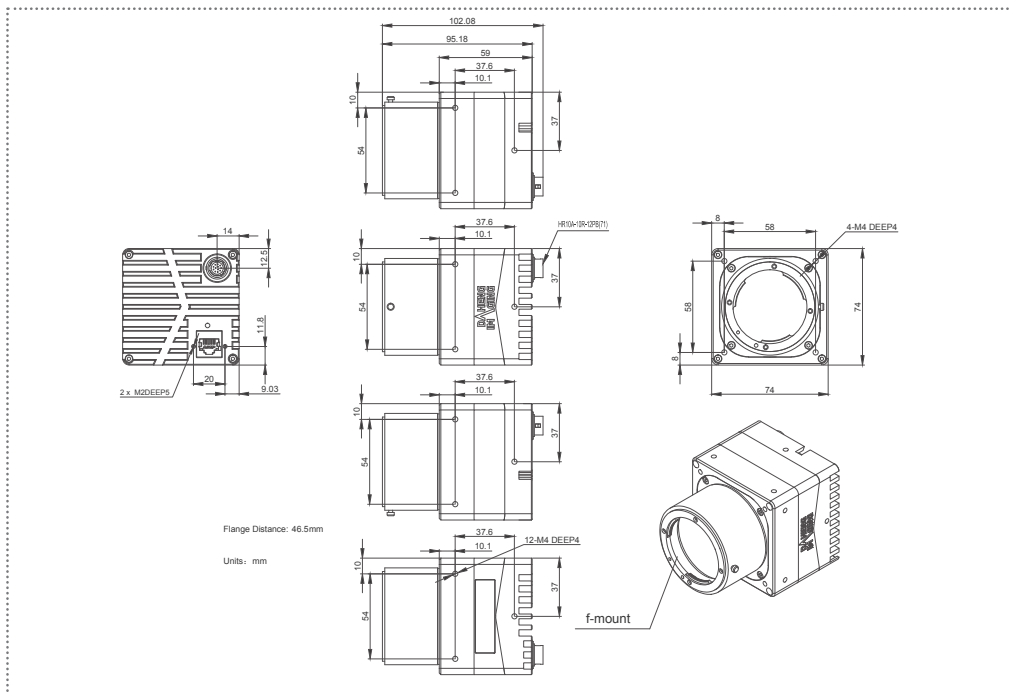
Technical Drawing



MARS-6500-18GTM/C M58-D1, M58-mount, flange distance:11.48mm



MARS-6500-18GTM/C M58, M58-mount, flange distance:19.5mm



MARS-6500-18GTM/C F, F-mount

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