

ATO

GigE Industrial Camera



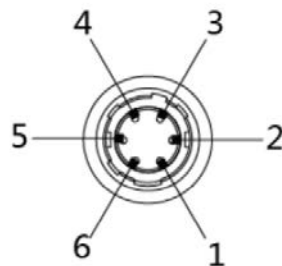
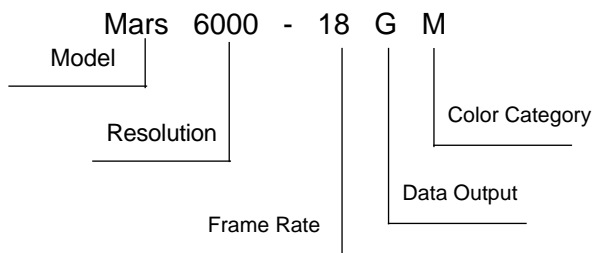
Specifications

- ★ Support GenICam™ and GigE Vision® Standard
- ★ Compact Design, Save Installation Space
- ★ Hard Industrial Shell Design
- ★ Built-in Temperature, Power Supply Real-time Monitoring Sensor
- ★ Professional SDK Provided
- ★ Accord with CE, FCC, UL, RoHS certification



Model	Mars640-300GM Mars640-300GC	Mars640-120GM Mars640-120GC	Mars800-200GM Mars800-200GC	Mars800-120GM Mars800-120GC	Mars1300-75GM Mars1300-75GC Mars1300-60gm-Lite	Mars2000-50GM Mars2000-50GC	Mars5000-20GM Mars5000-20GC
Resolution	640×480		800×600		1280×1024	1920×1200	2592×2048
Sensor Type	PYTHON 300		PYTHON 500		PYTHON 1300	PYTHON 2000	PYTHON 5000
Format	1/4"		1/3.6"		1/2"	2/3"	1"
Maximum Frame Rate	300fps	120fps	200fps	120fps	75fps 60fps (Lite)	50fps	20fps
Pixel Size (µm)	4.8×4.8						
Dynamic Range	60dB						
Color Category	Mono/Color						
Data Bits	8bit / 10bit						
Data Output	Gigabit Ethernet (100m Transmission Distance)						
Exposure Mode	Global Shutter						
Exposure Time	16µs~1s						
SNR	>38dB						
Lens Mount	Standard C-Mount						
Power Input	DC6-24v, POE (Lite N/A)						
Power Consumption	12V≈3.1W, POE≈3.4W						
Hardware Control	I/O input (external trigger), I/O output, Opto-couplers Isolation						
Programmable Control	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction						
Operating System	Support Windows 2000, Windows XP, Windows 7, Windows 8, Windows 10 Support 32-bit and 64-bit operating system/Arm/Linux						
Operating Temperature	-30~80°C (Storage), -30~60°C (Working)						
Dimension	42.0 mm × 29.0 mm × 29.0 mm (88g)						

Model	Mars6000-18GM Mars6000-18GC	Mars3800-7GM Mars3800-7GC
Resolution	3072×2048	3856×2764
Sensor Type	IMX 178	MT9J003
Format	1/1.8"	1/2.3"
Maximum Frame Rate	18fps	7fps
Pixel Size (μm)	2.4×2.4	1.67×1.67
Dynamic Range	66dB	65.2dB
Color Category	Mono / Color	
Data Bits	8bit / 10bit/ 12bit	
Data Output	Gigabit Ethernet (100m Transmission Distance)	
Exposure Mode	Rolling Shutter	
Exposure Time	34μs~1s	
SNR	>38dB	>32dB
Lens Mount	Standard C-Mount	
Power Input	DC6~24v, POE	
Power Consumption	12V≈3.1W, POE≈3.4W	
Hardware Control	I/O input (external trigger), I/O output, Opto-couplers Isolation	
Programmable Control	Image Resolution, RGB gain, Exposure Time, Contrast, Gamma Chart, Image Rollover, Raw, LUT, Black Level Correction	
Operating System	Support Windows 2000, Windows XP, Windows 7, Windows 8, Windows 10 Support 32-bit and 64-bit operating system/Arm/Linux	
Operating Temperature	-30~80°C (Storage), -30~60°C (Working)	
Dimension	42.0 mm × 29.0 mm × 29.0 mm (88g)	



- 1 +6~24VDC Camera Power
- 2 Opto-isolated input
- 3 N/A
- 4 Opto-isolated output
- 5 Opto-isolated Signal Ground(ISO_GND)
- 6 DC Camera Power Ground and GPIO Signal Ground(GND)

Spectral curve

Quantum Efficiency

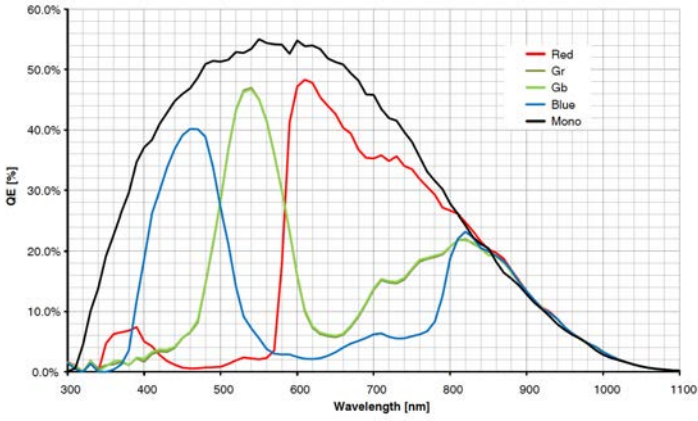


Figure 3. Quantum Efficiency Curve for Mono and Color

Mars640-300GC
 Mars640-120GC
 Mars800-200GC
 Mars800-120GC
 Mars1300-75GC

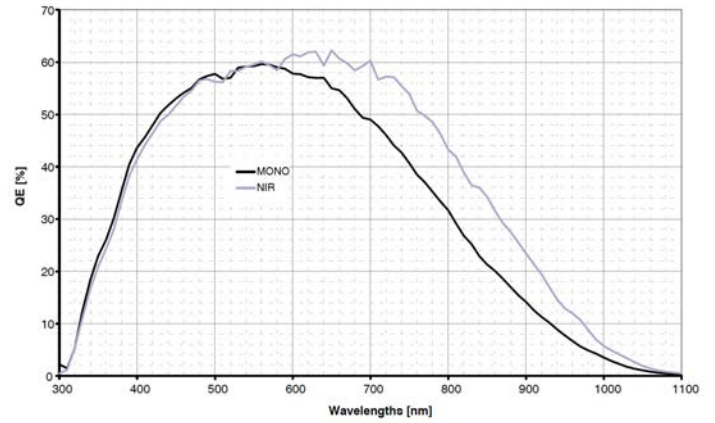


Figure 4. Quantum Efficiency Curve for Standard and NIR Mono

Mars640-300GM
 Mars640-120GM
 Mars800-200GM
 Mars800-120GM
 Mars1300-75GM
 Mars1300-60GM-Lite

Spectral Response Curve

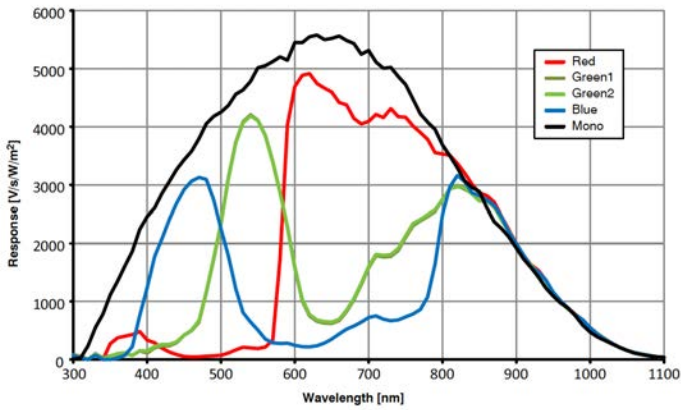


Figure 3. Spectral Response Curve for Mono and Color

Mars2000-50GC
 Mars5000-20GC

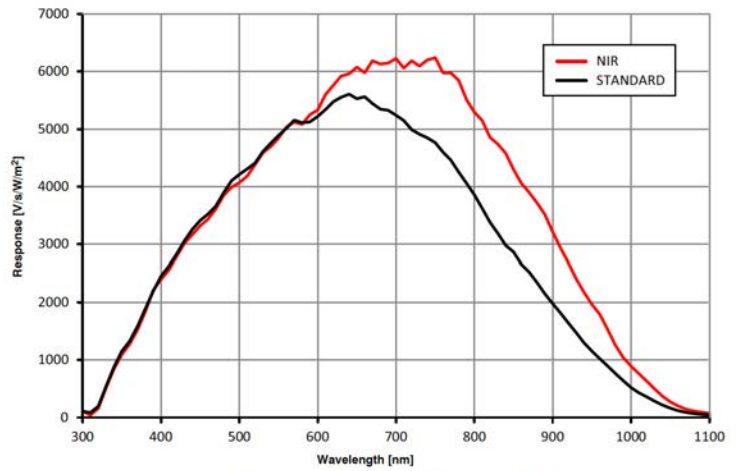
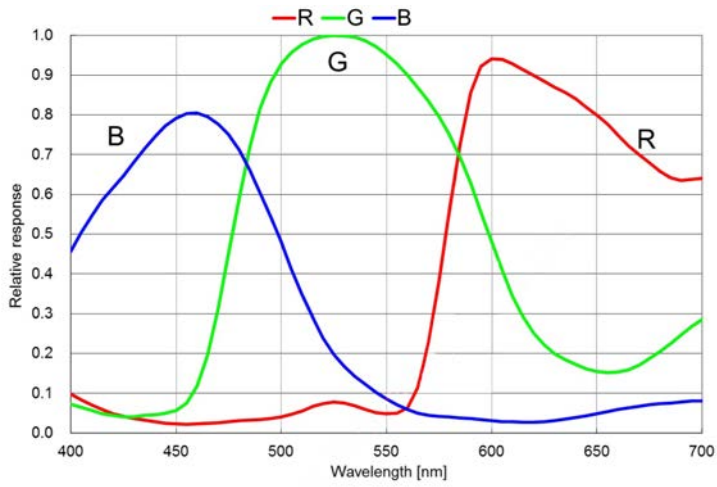


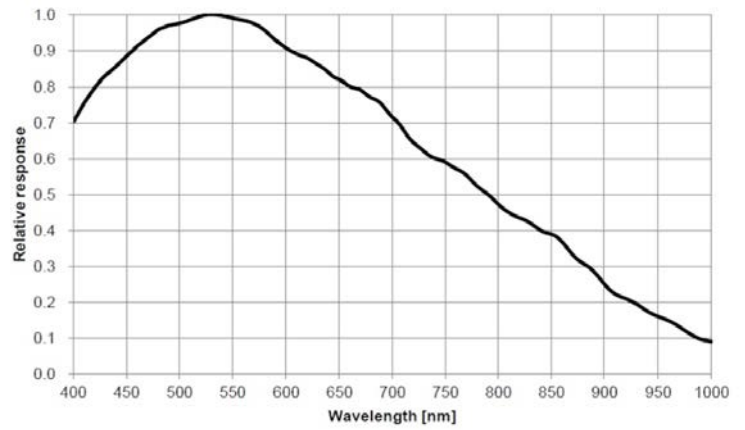
Figure 4. Spectral Response Curve for Standard and NIR Mono

Mars2000-50GM
 Mars5000-20GM

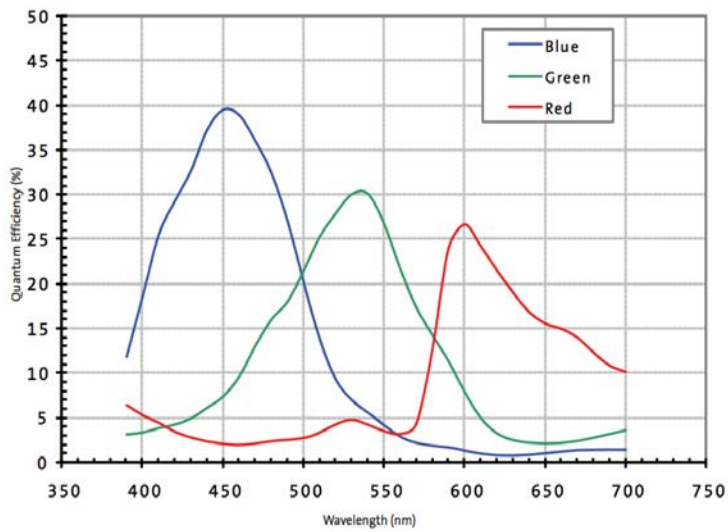
Spectral curve



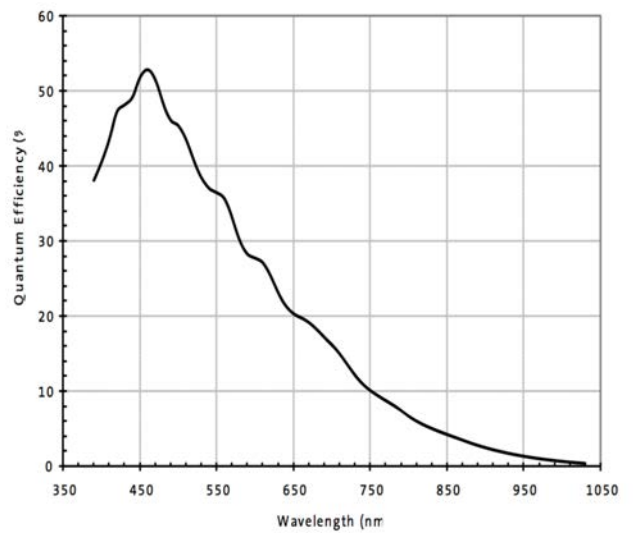
Mars6000-18GC



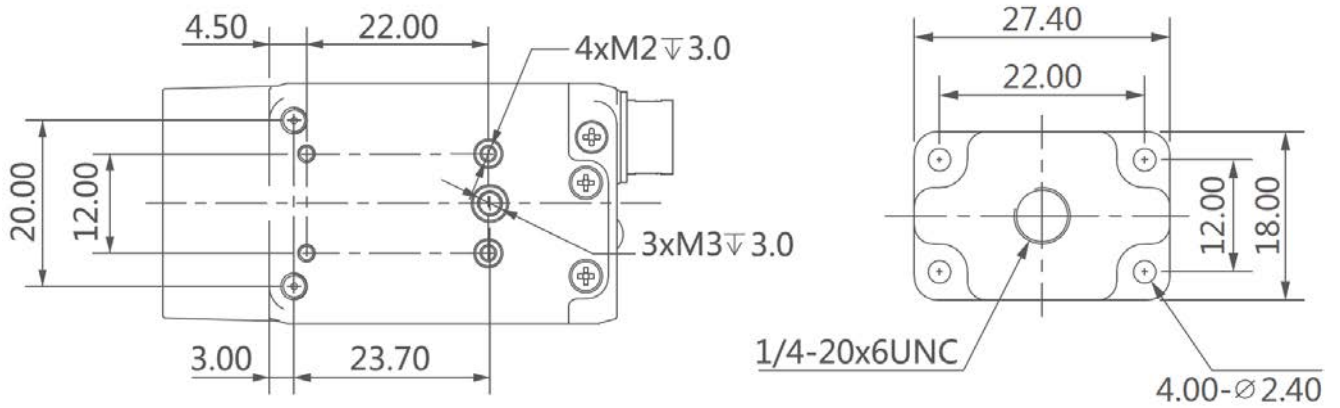
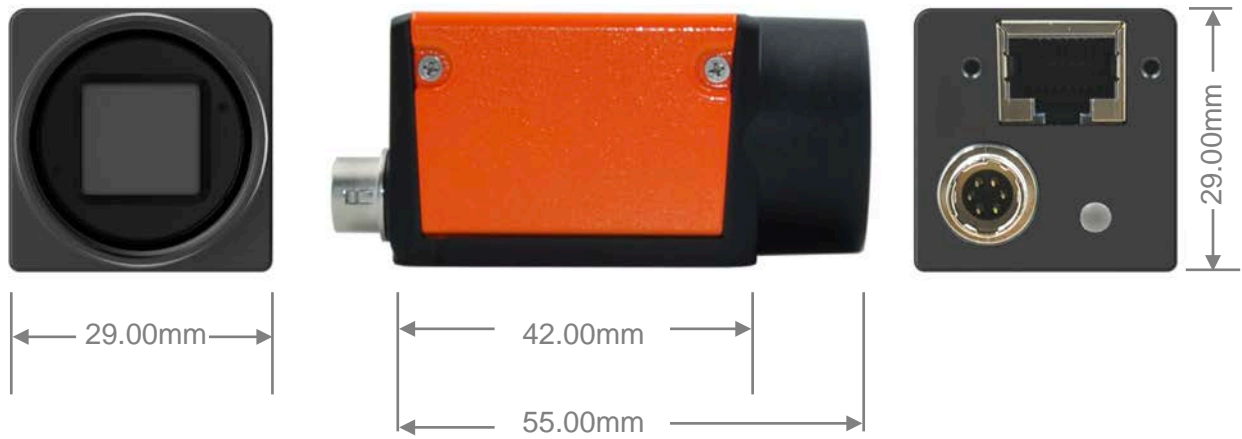
Mars6000-18GM



Mars3800-7GC



Mars3800-7GM



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