

MARS SERIES MARS-1231-46G5M/C-P



- High speed and low power consumption
- 1.1" global shutter CMOS sensor
- Compatible with GenICam[™] and GigE Vision[®]
- 5GigE interface
- Power over Ethernet (PoE)
- 2 programmable GPIOs
- 12.3 megapixels

The MARS 5GigE series (MARS-G5-P) camera is DAHENG IMAGING's high bandwidth industrial digital camera, featuring high resolution, high definition and low noise.

MARS-1231-46G5M/C-P is a monochrome/color GigE Vision camera with the Sony IMX253 CMOS sensor. The MARS-G5-P camera is capable of 5Gbit/s maximum transfer data rate, can be powered over Ethernet 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 price/performance ratio. Compact, robust, outstanding performance, attractive price, easy installation and use are especially suitable for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.

Features

- Power over Ethernet (IEEE802.3af compliant)
- Programmable ROI, increased frame rate with partial scan
- Gain, exposure and white balance programmable (white balance only for color models)
- Support auto gain, auto exposure and auto white balance (auto white balance only for color models)
- Three acquisition controls: Continuous acquisition / Software trigger acquisition / External trigger acquisition
- Support storable user sets
- Support Decimation
- Support Black Level to adjust the brightness of images
- Support Defect Pixel Correction
- Adjustable packet-size and packet-delay, and reserved bandwidth
- The maximum transfer rate is up to 5Gbit/s and can be switched to 1Gbit/s and 2.5Gbit/s
- Compatible with GenlCam[™] and GigE Vision[®], can be used in a wide range of 3rd-party software such as HALCON, MERLIC and LabVIEW directly
- Optimized software package for 32/64bit Windows, and support Linux, ARMv7, ARMv8 and Mac OS
- Multiple samples and easy-to-integrate SDKs for various programming tools
- Regulations: CE, RoHS, GenICam, GigE Vision, IEEE802.3af (PoE)



Performance Specifications

Model	MARS-1231-46G5M/C-P
Interface	5GigE
Resolution	4096(H) × 3000(V)
Frame rate	47 fps
Sensor	1.1" global shutter
	Sony IMX253 CMOS
Pixel size	3.45 μm × 3.45 μm
Pixel Bit Depth	8bit, 10bit
Spectrum	Monochrome / Color
Exposure time	21µs~1s

Electrical Specifications

Power requirement	12V~24V DC via 12-Pin or PoE	
I/Os	1 input / 1 output, 2 GPIOs	
Data interface	RJ45	
Power consumption <9W @12VDC, <10.5W @PoE		

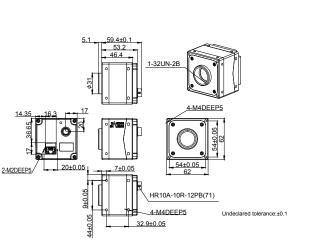
Environmental Specifications

Operating temp.	0°C ~ +45°C
Storage temp.	-20°C ~ +70°C
Operating humidity	10% ~ 80%

Mechanical Specifications

Weight	305g
Dimensions	53.2(W)×62(H)×62(L) mm, w/o connectors

Technical Drawing

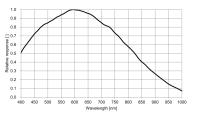


Units: mm

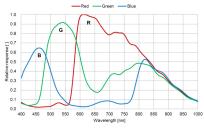
Optical Specifications

Lens mount C-Mount

Spectral Response



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