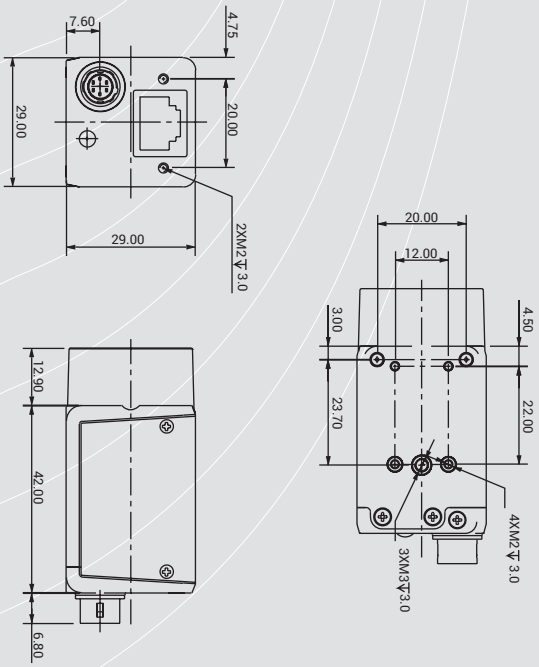
微图视觉
Vision Datum

Machine Vision

Mars Series

GigE NIR - CAMERA



Mars series industrial cameras follow Gigabit Ethernet, USB3.0 and Camera Link data bus standards; support GenICam, USB3 Vision ® and GigE Vision ®; can seamlessly connect HALCON, Vision Pro and other third-party software without secondary development. Mars series industrial camera have a high cost performance and are much applicable to various detection, measurement, high-speed imaging and other fields of applications. It has an excellent performance in mobile phone screen detection, LED automatic encapsulation, defect detection, and electronic components manufacturing, wafer positioning applications, which has a high satisfaction among customers.

At the same time, Mars series industrial cameras provide professional SDK for Windows and Linux, which has a variety of advanced control interface functions. And we have professional engineers to provide a best service for the development. Last but not the least, Mars series industrial camera products provide a warranty up to 1 years!

Product Features

- Conforms to GigE Vision protocol and GenICam standard;
- Super compact size, suitable for small installation space
- Solid industrial shell design
- Built-in temperature and power supply real-time monitoring sensor
- Professional SDK secondary development kit

Reliability Test

- 24 hours 3G Shock Test
- 2 weeks - 40 ~ 60 ℃ High and Low emperature Reciprocating Test
- 6kV Electrostatic Discharge Test of Metal Shell
- 1kV Common Mode/0.5kV POE Power Surge Test
- Class A Standard EMC Test
- 1000mm Free Fall Test

Quantum Efficiency Curves

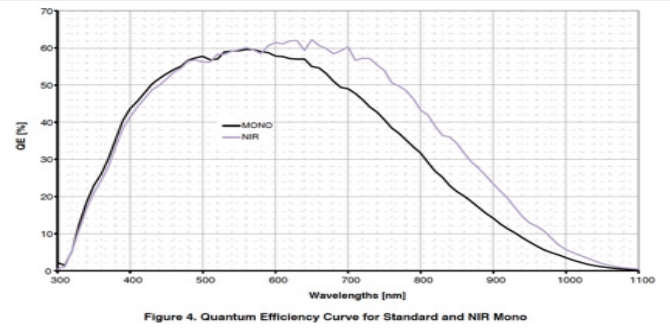


Figure 4. Quantum Efficiency Curve for Standard and NIR Mono

Mars1300-75gmNIR

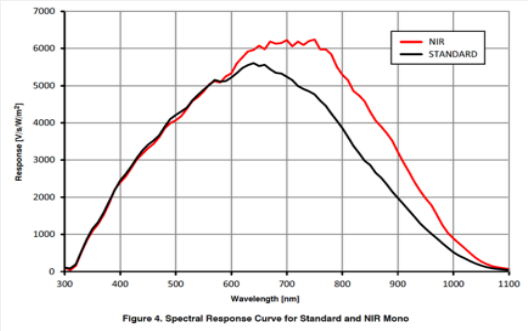


Figure 4. Spectral Response Curve for Standard and NIR Mono

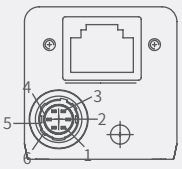
Mars2000-50gmNIR/Mars5000-20gmNIR

Specifications

Model	Resolution	Sensor Size	Frame Rate	Sensor
Mars1300-75gm-NIR	1280×1024	1/2''	75 fps	Python1300
Mars2000-50gm-NIR	1920×1200	2/3''	50 fps	Python2000
Mars5000-20gm-NIR	2592×2048	1''	20 fps	Python5000

Parameters	
Data Bits	8 bit / 10 bit
Pixel Size (μm)	4.8×4.8
Mono/Color	NIR/Mono
Dynamic Range	60dB
SNR	>38dB
Gain	X1-X32
Exposure Time	16μs~1s
Exposure Mode	Global
Camera Control	GigE Vision
Image Acquisition	GigE Vision or iCentral API/SDK
Synchronization	Via hardware trigger, via software trigger or free run
Digital I/O	1 opto-isolated input line, 1 opto-isolated output line
Power Input	DC6~24v or POE
Power Consumption	12V ≈ 3.1W,POE ≈ 3.4W
Operating Temperature	-30~80°C（Storage）／-30~60°C（Working）
Housing Size (L*W*H)	42.0 mm × 29.0 mm × 29.0 mm (88g)

PIN Assignments for I/O Connector



1 +6V~26V DC Camera Power
2 Opto-isolated IN
3 N/A
4 Opto-isolated OUT
5 Opto-isolated I/O Ground
6 DC Camera Power Ground

Hangzhou Vision Datum Technology Co.,Ltd

Add.: Xiyuan 9th Road West Lake District,
Hangzhou 310030 China
TEL: 86 571 86888309, 86888307
Web site: www.visiondatum.com

E-mail: market@visiondatum.com