GigE Area Scan Cameras

MV-040GC313-GV



- More stable performance
- Gigabit network, data transmission
- New appearance structure, higher installation accuracy



GigE Area Scan Cameras

Key Features

- Gigabit network transmission (compliant with IEEE 802.3 1000Base-T standard, maximum speed 1Gbps)
- 29mmx29mmx31.5mm size, industry common fixing holes
- Support POE power supply (compliant with IEEE 802.3at standard)
- Built-in large-capacity frame buffer, with packet retransmission technology, to ensure reliable and real-time transmission
- Supports GigEVision1.2 and GenICam interfaces.
- Compatible with HALCON, MVS and other third-party vision development software
- Built-in ISP, support gamma, contrast, LUT, reduce host CPU consumption, improve real-time
- Support DHCP, LLA, auto-following NIC mode. Adaptive jumbo frame adjustment, plug and play

Specifications

Model	MV-040GC313-GV				
parametric	Color GigE Industrial Camera				
Performance Parameters					
Sensor Type	CMOS, Global Shutter				
Resolution	720×540				
Optical Size	1/2.5" Diagonal 7.2mm				
Pixel Size	8um×8um				
Mono/Color	Color				
Max Frame Rate	300FPS@720×540 Bayer8				
HDR	68.5 dB				
Gain	1x ~ 15.5x; step 0.2x				
Exposure Time	1μs~10sec, step 1μs				
Exposure Mode	Support Auto Exposure/Manual Exposure/Single Exposure				
Output Image Format	Bayer8 /Bayer12 /Mono8 /Mono12				
Pixel Merge	-				
Trigger Mode	Hardware Trigger, Software Trigger				

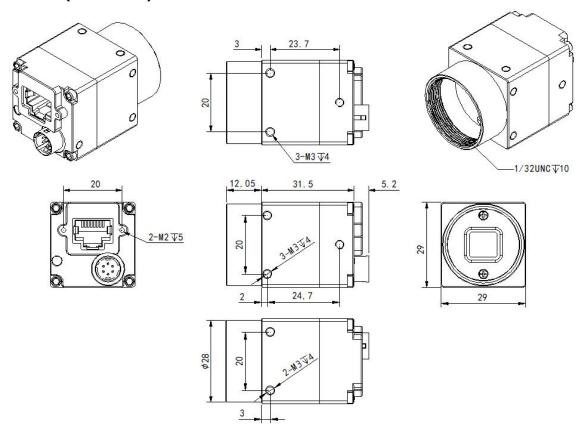




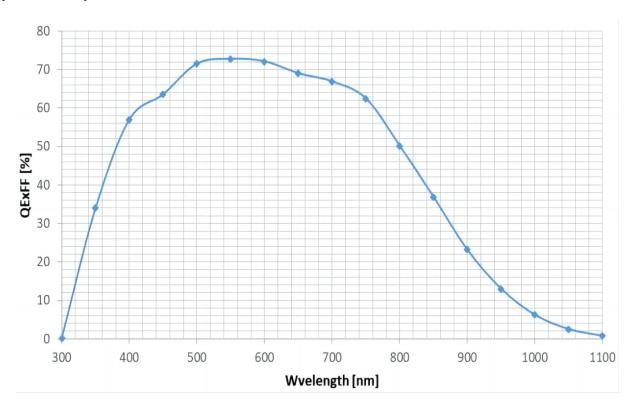
Image Cache	1Gbit				
ISP Functions	White balance, color matrix correction, RGB gain, color to black/white, Contrast adjustment, Gamma correction, look-up table, sharpness adjustment, noise reduction, black level correction, flat field correction, spot elimination, horizontal/vertical mirroring support				
Data Interface	Gigabit Ethernet port, RJ45 connector with fixed screw hole				
I/O Interface	1 optocoupler input, 1 optocoupler output, 1 bi-directional IC (no optocoupler isolation)				
Power supply	POE power supply or DC 12-24V (±10%) power supply				
Typical Power Consumption	2.2W@24VDC				
Structure and environment	al parameters				
Lens Interface	C port, optical back focus 17.5mm				
IO and Power Interface	6 pole industrial circular connector				
Filter	380nm-650nm bandpass filter				
Dimension	29mm x 29mm x 31.5mm (lens connector not included)				
Weight	Approx. 51.6g				
IP Protection Rating	IP40 (with lens and cables properly installed)				
Temperature	Operating Temperature: -10℃ ~ 50℃, Storage Temperature: -20℃ ~ 70				
Humidity	5% ~ 90%RH (non-condensing)				
Software and Protocols					
Coffunação	SDK development kit, and associated demo/calibration				
Software	software BasedCam3				
Operating Systems	Windows7/10 32/64bit; PC Linux 32/64bit				
Protocols/Standards	GigE Vision V1.2,GenICam				
Compatible Software	NI MAX, Halcon, VisionPro, MV Viewer, MVS				
Certifications	CE, RoHS				



Dimension (Unit: mm)



Spectral response







Interface Definition

Pin	Color	Definition	Signal	Description	Isolated/non	Interface	Input/Output
PIII	Cotor	Deminion	Source	Description	-isolated	Circuit	Parameters
1	Red	POWER_IN		DC Power Supply Positive			DC 12V~24V (±10%)
2	Green	TRIG+	Line 1+	Trigger input positive			Low effective: 0-1V High effective: 5-24V
4	Yellow	Flash_out+	Line 2+	Flash output positive	Isolated	optocoupler	Optocoupler current limit: 20mA
5	Brown	СОМ	Line 1/2-	Trigger/flash optocoupler common (negative)			
3	White	GPIO	Line 3+	General Purpose Inputs and Outputs	non-isolated		Input low effective: 0-0.7V Input high valid: 2.9-3.6V Output low level: 0V Output high level: 3.6V
6	Black	GND	Line 3-	Power negative/GPIO ground			
	Transpar ent	shielding cable		Connect to camera housing			Remarks: Transparent heat-shrinkable tubing for shielded wire cover
Trig	Trigger Block						