GigE Line Scan Cameras

MV-L023C-GF-V2

- 2K,7umlarge pixelsize
- True color RGB
- High sensitivity,low power consumption

Key Features

- High sensitivity, low noise, true color RGB.
- Flat-field supports writing and storing multiple sets of camera parameters.
- Built-in large-capacity frame buffer, safe and reliable verification and repair technology to ensure transmission.
- Frame timeout function, enhancing the fault tolerance of the camera for mechanical motion with excessively long lag time, low power consumption, low temperature rise and low thermal noise.
- Software is compatible with GigEVision and GenlCam protocols.
- Size:62mm×62mm×37.4mm

Specifications

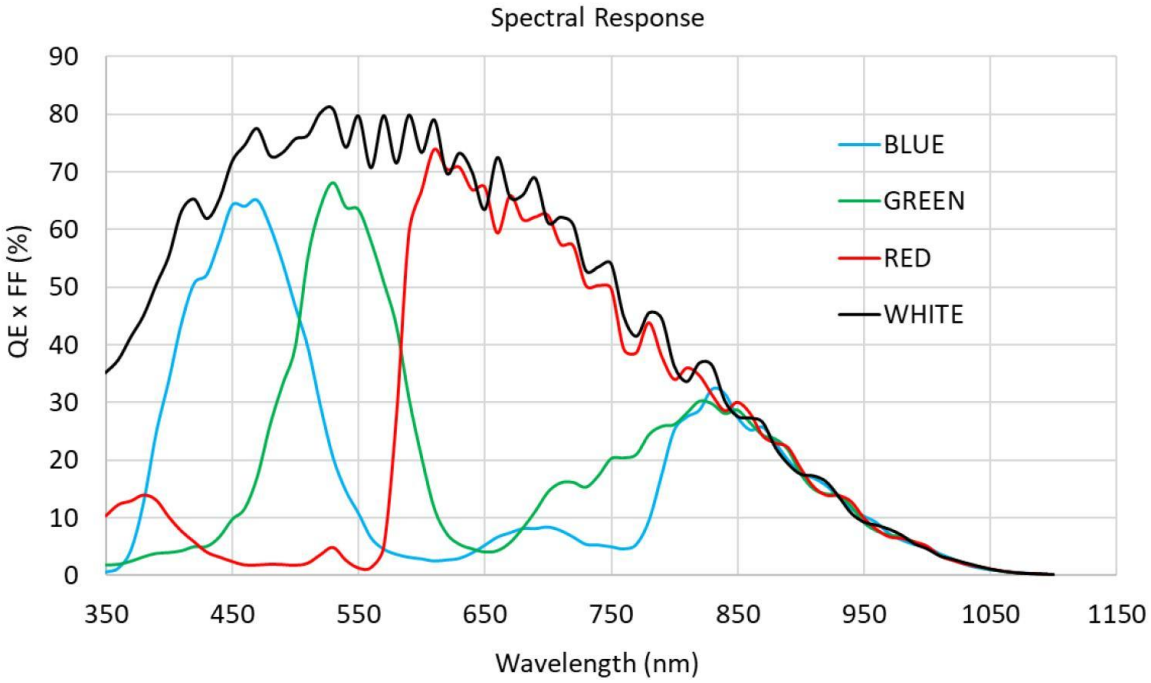
Model / parametric	MV-L023C-GF-V2 2K color GigE line scan camera
Performance Parameters	
Sensor Type	CMOS Global Shutter
Pixel Size	7.0um×7.0um
Sensor Size	14.336mm
Resolution	2048×3
Mono/Color	Color
Max Frame Rate	Burst Mode: 55K, Continuous Mode: 19K (3Line mode)
Imaging mode	3Line
DR	65 dB
Gain	1x-16x, 0.125x adjustable step
Exposure Time	4.3us - 40ms, 1us adjustable step
Exposure mode	Support manual exposure/single exposure/fixed exposure /automatic exposure/pulse width control exposure

SHENZHEN HIFLY TECHNOLOGY CO., LTD
Address:6A,168 Smart buildings,Heng Gang Tou industrial park of Xin'an community,Chang An Town,Dong Guan,China.
E-mail:sally@szhifly.com WhatsApp/WeChat:+86 13926593066
Web:https://www.szhifly.com/ Web:https://hifly.en.alibaba.com/

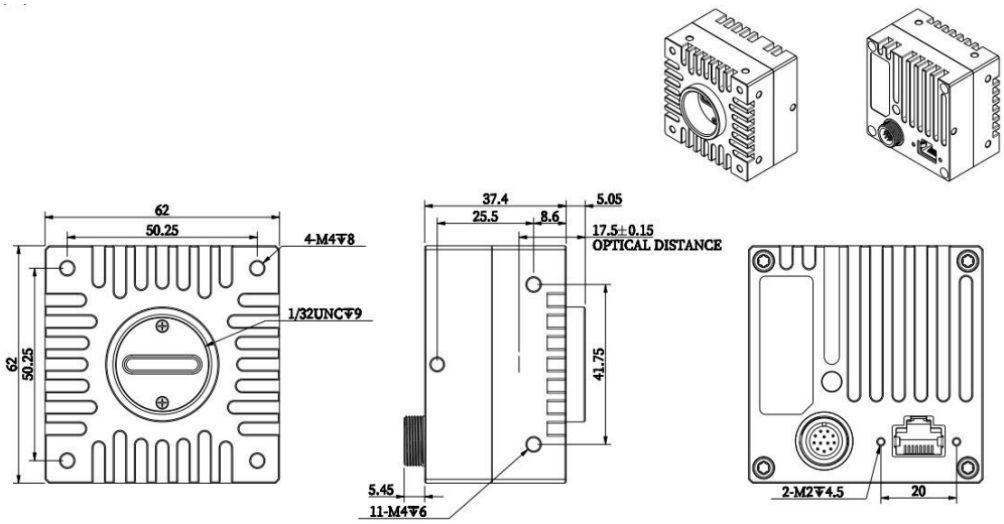
Flash mode	Support 4-way time-division stroboscopic
Output image format	RGB24、BGR24
Trigger Mode	Row triggered, frame triggered, row + frame triggered
Mirror image	Support horizontal mirroring, vertical mirroring
Source of trigger signal	Internal trigger, external trigger
Line frequency control	Camera internal frequency doubling/frequency division(external trigger),software setting(internal trigger)
Image cache	4Gbit
ISP	FPN correction/light and dark field correction/look-up table /Gamma/ multiple lens distortion correction/light source correction/space correction/white balance/contrast/black level
Electrical Characteristics	
Data Interface	GigE
I/O Interface	1 channel frame signal input (optically coupled isolation), 2 channels row signal input (AB phase), 4 channels output (non-optically coupled isolation)
Power supply	DC 12V~24V (±10%)
Typical Power Consumption	3W@12VDC
Structure and environmental parameters	
Lens Interface	C，Flange rear focal 17.5mm
IO and Power Interface	12 core industrial circular connector
Filter	380nm-650nm bandpass filter
Dimension	62mm×62mm×37.4mm(lens connector not included)
Weight	Approx. 263.5g
IP Protection Rating	IP40 (with lens and cable properly installed)
Temperature	Operating Temperature: -10℃ ~ 50℃ Storage Temperature: -20℃ ~ 70
Humidity	5% ~ 90%RH (non-condensing)
Software and Protocols	
Software	SDK development kit, and related demo/calibration software BasedCam3
Operating Systems	Windows 7/10 32/64bit ； PC Linux 32/64bit
Protocols/Standards	GigEVision，GenICam
Compatible Software	LabView，Halcon
Certifications	CE, RoHS

SHENZHEN HIFLY TECHNOLOGY CO., LTD
Address:6A,168 Smart buildings,Heng Gang Tou industrial park of Xin'an community,Chang An Town,Dong Guan,China.
E-mail:sally@szhifly.com WhatsApp/WeChat:+86 13926593066
Web:https://www.szhifly.com/ Web:https://hifly.en.alibaba.com/

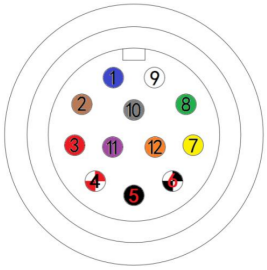
Spectral response



Dimension（Unit: mm）



SHENZHEN HIFLY TECHNOLOGY CO., LTD
Address:6A,168 Smart buildings,Heng Gang Tou industrial park of Xin'an community,Chang An Town,Dong Guan,China.
E-mail:sally@szhifly.com WhatsApp/WeChat:+86 13926593066
Web:https://www.szhifly.com/ Web:https://hifly.en.alibaba.com/

Pin	Color	Definition	Signal source	Notes	Isolated/ non-isolated	Interface circuit	Input/output parameters
1	Blue	GND	Line (6~9)-	Power/signal ground			
2	Brown	POWER		The power input is positive			12-24V power supply input
3	Red	IN1+	Line1+	The encoder phase A inputs the positive end	Non-isolated input	Comparator	Support 3.3V-24V differential signal Support 12-24V voltage signal Support 12-24VPNP signal
4	Red and white	IN1-	Line1-	The encoder phase A inputs the negative end			
5	Black	IN2+	Line2+	The encoder phase B inputs the positive end			Support NPN input
6	Black and white	IN2-	Line2-	The encoder phase B inputs the negative end			
7	Yellow	TRIG	Line3	Trigger signal input	Isolate input	Optical coupling	Low effectiveness: 0-1V High efficiency: 5-24V Port without polarity
8	Green	TRIG	Line3	Trigger signal input			
9	White	FLASH_ OUT1+	Line4+	Time-sharing exposure output 1	Non-isolated output	Push-pull circuit	Output high level: 12V Output low level: 0.3V
10	Grey	FLASH_ OUT2+	Line5+	Time-sharing exposure output 2			
11	Purple	FLASH_ OUT3+	Line6+	Time-sharing exposure output 3			
12	Orange	FLASH_ OUT4+	Line7+	Time-sharing exposure output 4			
	Transparent	Shielding cable		Connect to camera housing			Remarks: Transparent heat-shrinkable tubing for shielded wire cover
Trigger Block							

SHENZHEN HIFLY TECHNOLOGY CO., LTD
Address:6A,168 Smart buildings,Heng Gang Tou industrial park of Xin'an community,Chang An Town,Dong Guan,China.
E-mail:sally@szhifly.com WhatsApp/WeChat:+86 13926593066
Web:https://www.szhifly.com/ Web:https://hifly.en.alibaba.com/