

FEATURES

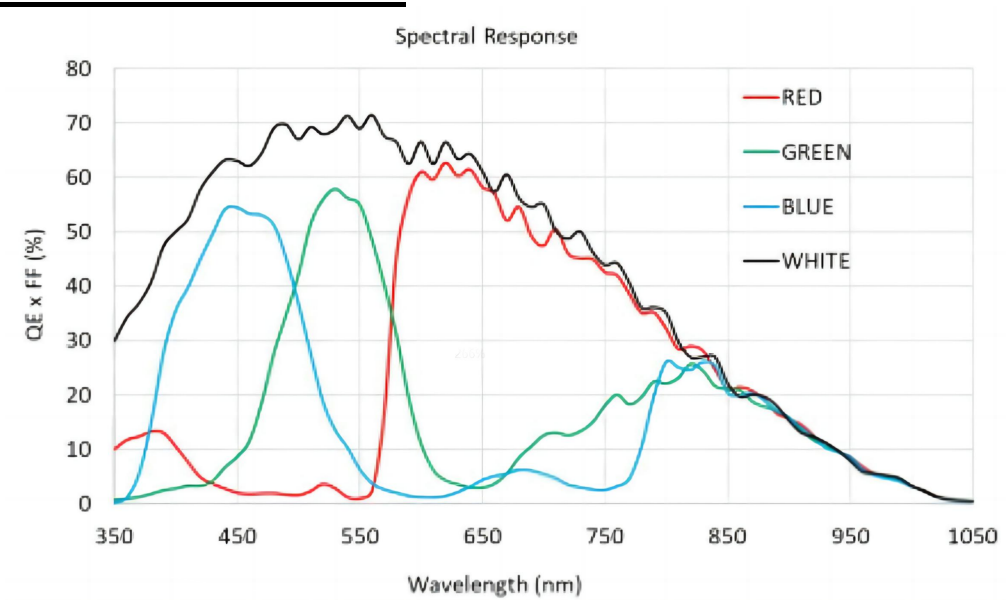
- With multiple exposure automatic switching function.
- The fan interface is reserved to effectively control the camera temperature.
- Using standard ten Gigabit network interface design, over six types of network cable can achieve stable communication.
- The maximum transmission distance up to 100 meters, compatible with gigabit network.
- Effective bandwidth of 1200MByte, shorten the image transmission time and delay.
- Supports GigEVision, GenICam standards, and the same SDK as Gigabit Camera.

SPECIFICATIONS

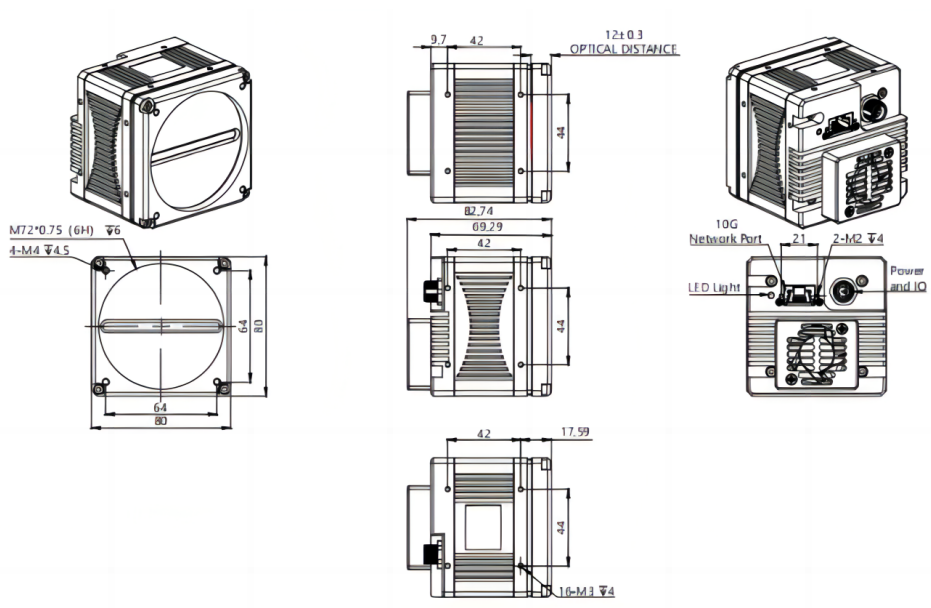
Parameter	Model	MV-L083C-10G	MV-L083M-10G
Sensor		8k	
Shutter		Global	
Color/Mono		Color	Mono
Pixel Size		7 μ m x 7 μ m	
Resolution		8192 \times 3(RGB)	8192 \times 2
Target size		57.344mm	
Imaging mode		Supports multiple exposure and 2Line TDI	
Dynamic range		65dB	
SNR		41.5dB	
Maximum gain		4	
AD width		12bit	
Pixel output width		8bits	
Exposure time range		0.004~50ms	
Video output format & Maximum line frequency		Bayer 8bit:50K	Mono8 bit:106k Mono 12bit:70k
Binning		Software Bin2 Bin4 Sun2 Sun4	
Mirror image		Software image: left and right, up and down hardware image: up and down	
Trigger mode		Continuous/software trigger/frame trigger/line trigger/conditional line trigger	
Frame buffer		1GB	
User EEPROM		2KB	
Data interface		10 GigE(10GB copper cable 10GBase-T, compatible with 100M/1G/2.5/5G))	
I/O		2 differential RS422 inputs, 1 optocoupler input, 2 optocoupler output	
Power supply		12V \pm 10%	
Power		<15W	<10W
Lens mount		M72, Flange distance 12mm	
Dimension		80x80x69.29mm(excluding lens holder and rear shell interface)	
Weight		<1000g	

Temperature	Operating temperature: 0~50°	Storage temperature: -30~ 60°
Humidity	Operating humidity: 20~80% (no condensation)	Storage humidity: 20~95% (no condensation)
Video standard protocol	GigE Vision V1.2, GenICam	
Drive program	Directshow component Halcon special component Labview special drive OCX component TWAIN component	
Programming language packages	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java	
Operating system	WINXP, WIN7/8/10 32&64 bit system, Linux and ARM Linux driver Android platform driver, MAC OS system	
Other functions	Support arbitrary size ROI custom resolution, multiple exposure, contrast and gamma adjustment, saturation adjustment, white balance correction, black point correction, custom dead point coordinate correction, ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, and more	

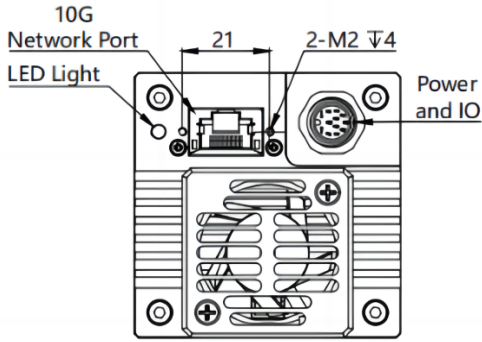
SPECTROGRAMS



DIMENSIONS(Unit: mm)



List of pin functions:



Pin	Line Color	Signal Name	Signal Description	Remark
1	black	GND	Camera power input	Power supply GND
2	red	DC12V+	Camera power input	Power supply positive
3	gray	IN1+	Encoder A phase input +	differential signal
4	pink	IN1-	Encoder A phase input -	differential signal
5	brown	IN2+	Encoder B phase input +	differential signal
6	white	IN2-	Encoder B phase input -	differential signal
7	green	IN3+	Trigger input +	opto-isolator
8	yellow	IN3-	Trigger input -	opto-isolator
9	blue	OUT1+	Optocoupler output 1+	opto-isolator
10	dark reddish purple	OUT1-	Optocoupler output 1-	opto-isolator
11	purple	OUT2+	Optocoupler output 2+	opto-isolator
12	orange	OUT2-	Optocoupler output 2-	opto-isolator

Note 1: The frame trigger input needs to be connected to both positive and negative terminals.

Note 2: The differential signal source is 5V.

Note 3: The optocoupler input logic high level voltage is 3.3~24V, the input logic low level is 0~1V, the maximum input current of the optocoupler is 50 mA, and the breakdown voltage is 30V.