Product number

MV-XGLC83C-T4-90

In response to the demand for line array cameras for large-format inspection and high-speed assembly line inspection in industrial production, Mindvision independently developed the industrial line array camera MV-XGLC83C-T4-90; 10G network port; 8K high resolution, up to 48KHz frequency, greatly improving the production efficiency and detection accuracy in the field of industrial detection; it integrates a variety of ISP image algorithms and functions and supports external trigger modes such as line trigger and frame trigger; it is a cost-effective product.

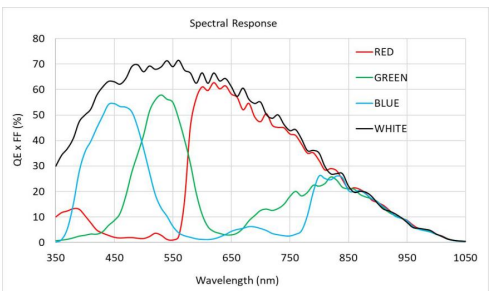
Application Industry :

It is suitable for fluorescence imaging, laser spot tracking imaging, semiconductor inspection, solar cell inspection, hyperspectral imaging, etc.

Feature Of Product :

- Support RGB true color.
- Interface with the capture card way to greatly reduce the cost.
- Adopting standard 10GbE interface design, super category 6 network cable can achieve stable communication.
- Compared with the CameraLink interface with the capture card way to greatly reduce the cost.
- The longest transmission distance can reach 100 metres, industrial field wiring is no longer constrained; downward compatible with Gigabit network.
- Effective bandwidth of 1200MByte, 10 times that of Gigabit network, greatly reducing the image transmission time and delay.
- Support GigEVision, GenICam standards and the same SDK as Gigabit cameras, shortening the customer's development cycle.

Spectral Response Curve :



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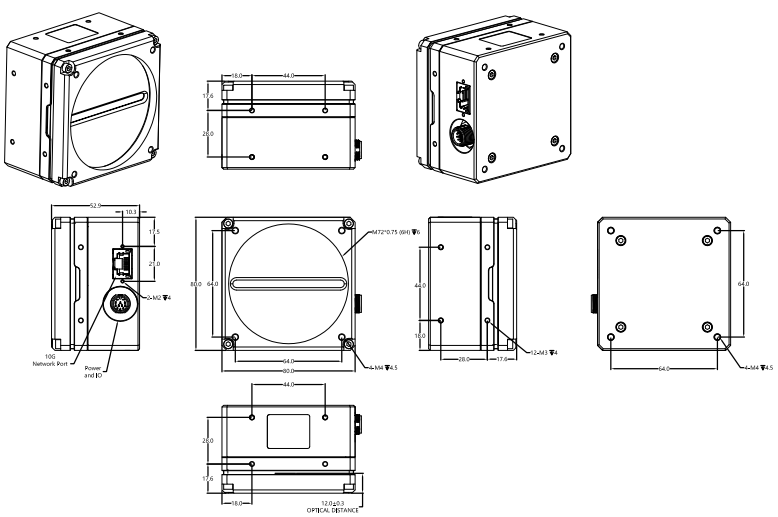
Mechanical Specification :

unit:mm



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TECHNICAL PARAMETER

	Specifications \ Model	MV-XGLC83C-T4-90
Performance	Mono/Color	Color
	Sensor type	CMOS
	Optical dimension	57.344mm
	Pixel size	7umx7um
	Exposure mode	Global exposure
	Effective pixels	8192x3
	Imaging mode	Support multiple exposure
	Dynamic range	65dB
	Signal to noise ratio	41.5dB
	AD width	12bit
	Pixel output width	10bit
	Maximum gain (multiple)	16
	Exposure time range(ms)	0.003~50ms
	Video output format & Maximum line frequency	RGB 8bit: 48K
	Binning	Software：Bin2 Bin4 Sum2 Sum4
	Mirror image	Software image: up and down, left and right Hardware image: up and down
	Trigger mode	Continuous/software trigger/frame trigger/line trigger/conditional line trigger
	Frame buffer	1GB
	User EEPROM	2KB
Electrical characteristics	Data interface	10 Gigabit network port (10 Gigabit copper cable 10GBase-T, compatible with 100M/1G/2.5/5G)
	I/O port	2 differential RS422 inputs, 1 optocoupler input, 3 non-isolated outputs
	Power supply	12V-24V（±10%）
	Power	<10w
Mechanism	Lens interface	M72, Flange distance 12mm
	Boundary dimension	80×80×52.9mm（Lens mount and back housing mount are not included）
	Weight	<550g
	Working temperature	0~50℃
	Working humidity	20~80%（No Condensation）
	Storage temperature	-30~60℃
	Storage humidity	20~95%（No Condensation）
General Specifications	Visual standard protocol	GigE Vision, GenICam
	Device driver	DirectShow components Halcon special components Labview dedicated drive OCX components TWAIN components
	Programming language	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java
	Operating system	WINXP, WIN7/10 32 & 64-bit systems, Linux 32 & 64-bit systems and Mac OS 64-bit system
	Programmable control	Support for any size ROI custom resolution, multiple exposure, contrast and gamma adjustment, saturation adjustment, white balance correction, black dot leveling correction, custom dead end coordinate correction,ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, etc.

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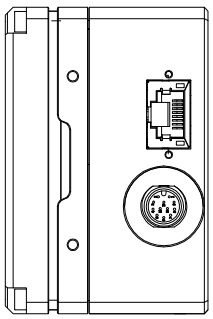
Line Sequence Definition：



Pin number	Line color	Signal name	Signal description	Interface type
1	Black	GND	Camera power input	Power supply GND
2	Red	DC24V+	Camera power input	Positive pole
3	Grey	RS422_IN1+	Encoder phase A input+	Differential signal
4	Pink	RS422_IN1−	Encoder phase A Input -	Differential signal
5	Brown	RS422_IN2+	Encoder phase B input+	Differential signal
6	White	RS422_IN2−	Encoder phase B input -	Differential signal
7	Green	OPT_IN3+	Trigger input+	Optocoupler isolation
8	Yellow	OPT_IN3−	Trigger input -	Optocoupler isolation
9	Blue	NPN_OUT1+	Light source 1+	Triode open-drain output +
10	Light green	NPN_OUT2+	Light source 2+	Triode open-drain output +
11	Purple	NPN_OUT3+	Light source 3+	Triode open-drain output +
12	Orange	NPN_OUT_COMM	Light source terminal	Light source terminal

Note 1: Frame trigger input needs to be connected to both positive and negative ends.
Note 2: The differential signal source is 5V.
Note 3: The optocoupler input logic high level voltage is 3.3 ~ 24 V, the input logic low level is 0 ~ 1 V, the maximum input current of the optocoupler is 50mA, and the breakdown voltage is 30V.

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