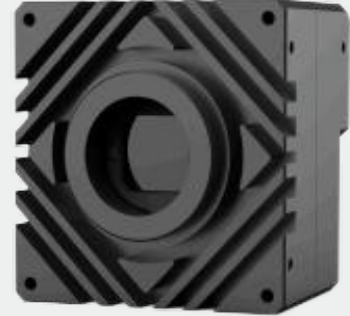


Product
number

CHTGM-280CA/MA

CHTGM-280CA/MA has features of high definition, low noise, excellent performance, easy installation and usage and so on. It is suitable for industrial testing, biomedical, aerospace, scientific research, teaching education and other fields.



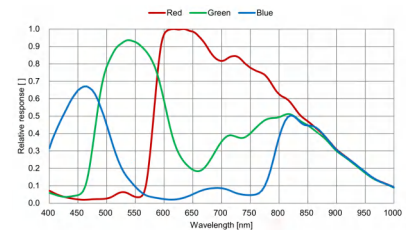
Application industry:

It is suitable for PCB, screen inspection, lithium battery, railway.

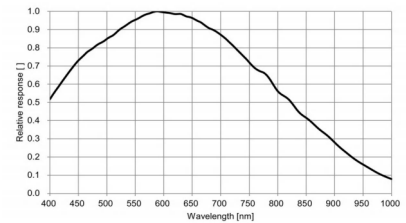
Feature of product:

- Using standard 10 Gigabit network interface design, and CAT 6A cables can realize stable communication.
- Compared with the CameraLink interface with the capture card, the cost is greatly reduced.
- The longest transmission distance can reach 100 meters, and the industrial field wiring is no longer restricted; it is backward compatible with Gigabit Ethernet.
- The effective bandwidth is 1200MByte, which is 10 times that of the Gigabit network, which greatly shortens the image transmission time and delay.
- Support GigEVision, GenICam standards and have the same SDK as Gigabit cameras, shortening customer development cycle.

Spectral response curve:



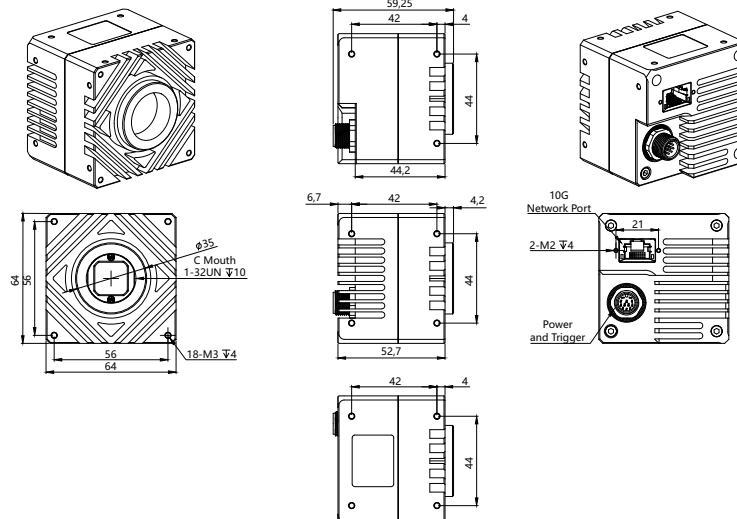
CHTGM-280CA



CHTGM-280MA

Mechanical Specifications:

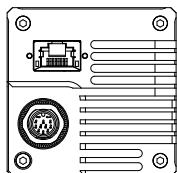
unit:mm



TECHNICAL PARAMETER

Model	Product Model	CHTGM-280CA		CHTGM-280MA	
	Product Name	10GigE Camera			
Sensor	Color/Mono	Color		Mono	
	Sensor Model	SONY-IMX421			
	Sensor Type	CMOS			
	Optical Size	2/3"			
	Pixel Size	4.5um x 4.5um			
	Exposure Method	Global Shutter			
	Efective Pixels	2.8MP			
	AD Width	12bit			
Performance Parameters	Signal-to-Noise Ratio	/			
	Dynamic Range	/			
	Sensitivity	2058mv 1/30s			
	Quantum Efcency	/			
	Resolution@Frame Rate	1936*1464 MAX@410FPS			
	Output Pixel Width	12 bit			
	Video Output Format	Bayer 8/12bit		Mono 8/12 bit	
	Maximum Gain	125X			
	Exposure Time Range	0.0015-1572.8625ms			
	Trigger Mode	Continuous/Software Trigger/Hardware Trigger			
	Frame Bufer	1GB			
	User-Defned Data Area	2KB			
Electrical Characteristics	Data Interface	10 Gigabit copper cable 10GBase-T, compatible with 100M/1G/2.5G/5G			
	I/O Port	2 optocoupler inputs, 2 optocoupler outputs, 1 non-isolated configurable input/output, supporting trigger and flash sync modes			
	Power Supply	External power supply 24V (±10%)			
	Power	< 12W			
Structural Characteristics	Heat Dissipation Method	Aluminum Alloy Body Natural Cooling			
	Lens Mount	C-mount			
	External Dimensions	64x64x52.7mm (excluding lens mount and rear shell interface)			
	Weight	<550g			
	Ingress Protection Rating	IP40			
	Temperature	Operating Temperature 0~50℃ / Storage Temperature -30~60℃			
	Humidity	Operating Humidity 20~80% (non-condensing) / Storage Humidity 20~95% (non-condensing)			
Protocol Standards	Operating System	Windows XP, Windows 7/8/10/11 (32-bit & 64-bit), Linux (32-bit & 64-bit)			
	Software	Directshow components Halcon special components Labview dedicated drive OCX components TWAIN components			
	Vision Standard Protocol	GigE Vision, GenICam			
	Certification	CE,RoHS			
Other Features	Other Features	Support any size ROI custom resolution, contrast and gamma adjustment, saturation adjustment, white balance correction, black level correction, custom dead point coordinate correction,ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, etc.			

Line Sequence Definition



Port	Pin No.	Line Color	Signal name	Description	Remarks
Port A	1	Black	PWR-	Camera power input negative terminal	
	2	Red	PWR+	Camera power input positive terminal	
	3	Gray	GPI_1+/TRIG_IN+	GPI_1 or trigger input optocoupler positive terminal	Default is trigger
	4	Pink	GPI_1-/TRIG_IN-	GPI_1 or trigger input optocoupler negative terminal	Default is trigger
	5	Brown	GPI_2+	GPI_2 input optocoupler positive terminal	
	6	White	GPI_2-	GPI_2 input optocoupler negative terminal	
	7	Green	GPI_3+/GPO_3+	GPI_3 input or GPO_3 output positive terminal	Default is output
	8	Yellow	GPI_3-/GPO_3-	GPI_3 input or GPO_3 output negative terminal	Default is output
	9	Blue	GPO_1+/STRB_OUT+	GPO_1 or strobe output optocoupler positive terminal	Default is strobe
	10	Light green	GPO_1-/STRB_OUT-	GPO_1 or strobe output optocoupler negative terminal	Default is strobe
	11	Purple	GPO_2+	GPO_2 output optocoupler positive terminal	
	12	Orange	GPO_2-	GPO_2 output optocoupler negative terminal	