Independent Development

CHGM-230CA/MA

CHGM-230CA/MA has high definition, low noise, excellent performance, easy installation and usage and other features. It is suitable for industrial inspection, medical treatment, scientific research, education, security and other fields.

Application Industry

It is suitable for industrial inspection, medical treatment, scientific research, education, security and other fields.

Product Features:

- 100 meters long-distance stable transmission,optional POE power supply.
- Compatible with VISION standard, the free drive directly supports software such as Halcon and VisionPro.
- Support external trigger and flash synchronization, up to 7 GPIO, all opto-isolated.
- Support 8bit to 10bit lossless format output.
- SDK supports Windows, Linux, Mac OS systems.
- Unique data packet retransmission technology ensures reliable data transmission.
- Excellent SDK, easy to use like a USB camera, plug and play.
- Support multiple cameras working at the same time, the number is not limited, and can be networked arbitrarily.

Spectral Response Curve:

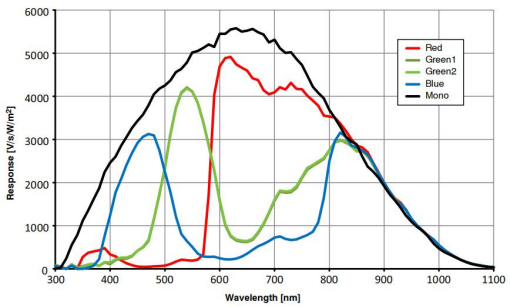
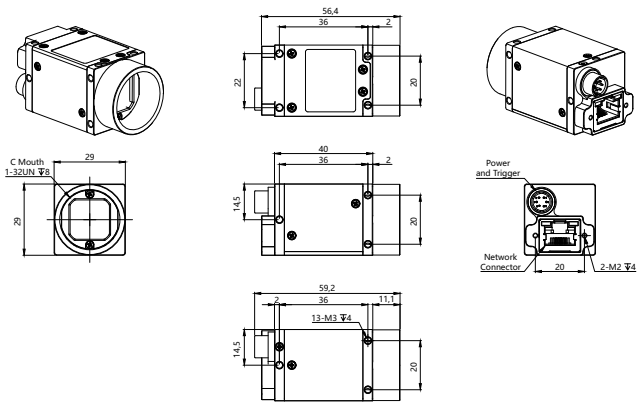


Figure 3. Spectral Response Curve for Mono and Color

CHGM-230CA/MA

Mechanical Specification:

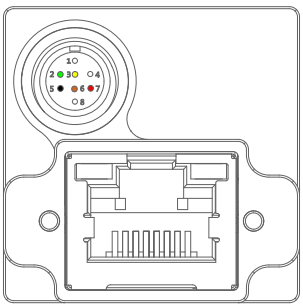
unit:mm



GE-T1-C

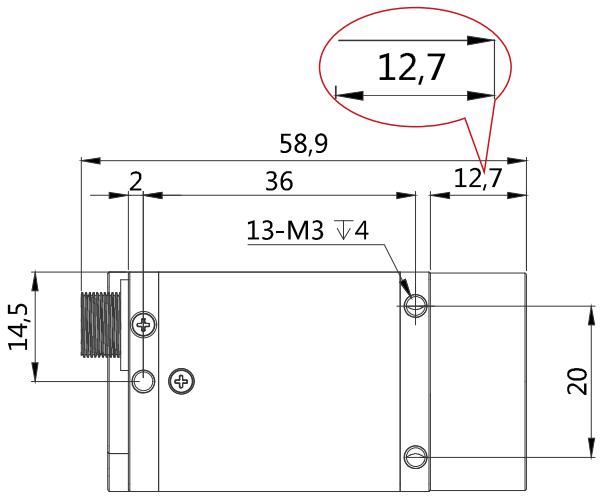
TECHNICAL PARAMETER

Specifications \ Model	CHGM-230CA	CHGM-230MA
Sensor	2/3" CMOS	
Shutter type	Global shutter	
Camera type	Color	Mono
Pixel size	4.8umx4.8um	
Effective pixels	2MP	
Resolution @ frame rate	1920X1200MAX@51FPS	
Exposure mode	Frame exposure	
GPIO	1 way optical isolation input, 1 way optical isolation output; optional 3 inputs and 4 outputs	
Sensitivity	7.5 V/lux.s@550nm	
Signal to Noise Ratio	40dB	
Dynamic range	60dB	
Output pixel width	10bit	
AD width	10bit	
Frame buffer	128M Bytes	
Exposure time range	0.005~327.7ms	
Maximum gain (multiple)	8	
User EEPROM	2K Bytes	
Video output format	Bayer RG 8/10bit	Mono 8/10bit
Visual standard protocol	GigE Vision V1.2,GenICam	
Lens interface	C/CS mount, provide with an adapter ring	
Port	Gigabit Network and POE(Optional)	
Power supply	12~24V/POE 48~57V(POE is optional)	
Power	<2.5W	
Boundary dimension	29(mm)X29(mm)X40(mm) (without lens and rearcase connectors)	
Weight	<75g	
Working temperature	0~50℃	
Working humidity	20~80%(No Condensation)	
Storage temperature	-30~60℃	
Storage humidity	20~95%(No Condensation)	
Operating system	WINXP, WIN7 / 8/10 32 & 64-bit systems, Linux and ARM Linux drivers and Android platform drivers MAC OS system	
Drive program	Directshow components Halcon special components Labview dedicated drive OXC components TWAIN components	
Programming language	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java	
Other functions	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.	

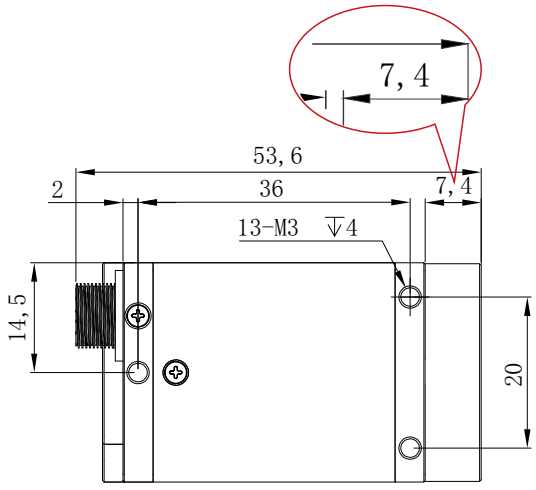


Port	Pin number	Line color	Signal name	Signal description	Remarks
Port A	1	White	GPI_1+/TRIG_IN+	GPI_1 Positive end/Trigger input positive end	Default to trigger input
	2	Green	GPO_1+/STRB_OUT +	GPO_1 Positive end / Flash output positive end	Default to flash output
	3	Yellow	GPO_1-/STRB_OUT-	GPO_1 Negative terminal / flash output negative terminal	Default to flash output
	4	Empty foot			
	5	Black	GND	Camera power input negative terminal	
	6	Brown(high soft blue)	GPI_1-/TRIG_IN-	GPI_1 Negative end / trigger input negative end	Default to trigger input
	7	Red	DC12V+	Camera power input positive terminal	
	8	Empty foot			

C-Mount/CS-Mount Camera Drawing



C-Mount



CS-Mount

Unit:mm