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G3M Series USB3.0 CMOS 1.25" Guiding Camera

Camera for auto-guiding and multiple types of astrophotography (Moon, Sun, Planets, Galaxies, Cluster and Nebulae)

Carefully selected SONY Exmor, Exmor R, Exmor RS CMOS sensor with USB3.0 interface

Compact size and low amp glow

Protect window with double-side AR coating or IR-Cut filter

A built-in ST4 auto guider port for the easy connection of the auto guider

Dedicated astrophotography software to support video preview, video record, video processing, image capture and process, dark field correction and raw data output

Native/ASCOM/WDM driver for easy connection with 3rd party astrophotography software

Aluminum CNC housing with standard 1.25 inch interface(outer) to fit to telescope eyepiece

Standard C-mount(inner) for standard industrial lens



Specification

G3M Series USB3.0 CMOS 1.25" Guiding Camera(8)

ToupTek G3M camera is guiding CMOS camera and it adopts ultra-high performance CMOS sensor as the image-picking device. USB3.0 is used as the data transfer interface. A built-in ST4 auto guider port is designed for the easy connection of the auto guider.

Aluminum CNC housing with standard 1.25 inch interface(outer) to fit to telescope eyepiece and standard C-mount(inner) for standard industrial lens.

Native/ASCOM/WDM driver for easy connection with 3rd party astrophotography softwares.

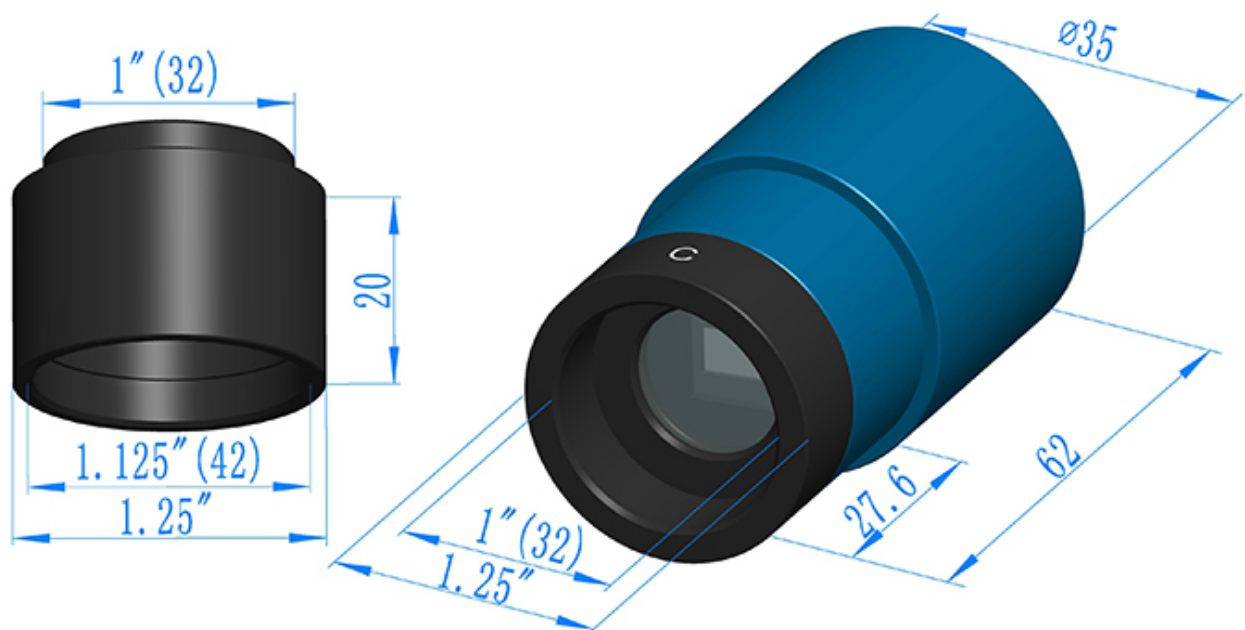
The GCMOS camera can be widely used in astrophotography (Moon, Sun, Planets as well as Galaxies, Cluster and Nebulae).

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
G3M178C G3P306300A (New)	6.3M/IMX178(C) 1/1.8"(7.37x4.91)	2.4 x2.4	425mv with 1/30s 0.15mv with 1/30s	59@3040 x2048 58@1520 x 1024	1x1 2x2	0.244ms~1000s
G3M178M	6.3M/IMX178(M)	2.4 x2.4	776mv with 1/30s	59@3040x2048	1x1	0.244ms~1000s

G3M306300A(New)	1/1.8"(7.37x4.91)		0.15mv with 1/30s	58@1520x1024	2x2	
G3M290C	2.0M/IMX290(C)	2.9 x2.9	1300mv with 1/30s	126@1920 x1080	1x1	0.244ms~1000s
G3P302000A(New)	1/2.8"(5.60x3.10)		0.15mv with 1/30s			
G3M290M	2.0M/IMX290(C)	2.9 x2.9	2449mv with 1/30s	126@1920x1080	1x1	0.244ms~1000s
G3M302000A(New)	1/2.8"(5.60x3.10)		0.15mv with 1/30s			
G3M224C	1.2M/IMX224(C)	3.75x3.75	2350mv with 1/30s	150@1280x960	1x1	0.244ms~1000s
G3P301200A(New)	1/3"(4.80x3.60)		0.15mv with 1/30s	240@640x480	2x2	
G3M385C	2.0M/IMX385(C)	3.75 x3.75	2350mv with 1/30s	126@1920x1080	1x1	0.244ms~1000s
G3P302000B(New)	1/2"(7.20x4.05)		0.15mv with 1/30s			
G3M287C	0.4M/IMX287(C)	6.9x6.9	4584mv with 1/30s	520@720x540	1x1	0.244ms~1000s
G3P300400A(New)	1/2.9"(4.97x3.73)		0.15mv with 1/30s			
G3M287M	0.4M/IMX287(M)	6.9x6.9	7469mv with 1/30s	520@720x540	1x1	0.244ms~1000s
G3M300400A(New)	1/2.9"(4.97x3.73)		0.15mv with 1/30s			

OTHER HARDWARE CONFIGURATION	
Spectral Range	380-650nm (with IR-filter), 350-1050nm(with Double Side AR Coating Protect Window)
White Balance	ROI White Balance/ Manual Temp-Tint Adjustment
Color Rendering Technique	Ultra Fine Color Engine
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc);
Recording System	Still Picture and Movie
Guiding Port	ASCOT ST4-port
Cooling System*	Natural with High Performance Cooling Structure;
OPERATING ENVIRONMENT	
Operating Temperature	-10°C~ 50°C
Storage Temperature	-20°C~ 60°C
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port
SOFTWARE ENVIRONMENT	
Operating System	Support Microsoft Windows XP / Vista / 7 / 8 / 10(32 & 64 bit) OS X (Mac OS X), Linux
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher
	Memory: 2GB or More
	USB port: USB2.0 High-speed Port
	Display: 17" or Larger CD-ROM

G3M Series USB3.0 CMOS Guiding Camera Dimension



G3M Series Guiding Camera Dimension

G3M Series Guiding Camera and Telescope



G3M Series Guiding Camera + Telescope

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