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<https://toupstek.nt-rt.ru/> || tuo@nt-rt.ru



GCMOS Series USB2.0 CMOS 1.25" Guiding Camera

Great camera for auto-guiding and multiple types of astrophotography (Moon, Sun, Planets as well as Galaxies, Cluster and Nebulae)

Carefully selected sensor with high sensitivity and fast frame rate, as well as long time exposure

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 softwares

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

1.25 inch nosepiece for precise focusing and 1.25 inch astronomical filter installation

Thermal design to transfer the sensor heat to the aluminum house quickly



Specification

GCMOS Series USB2.0 CMOS 1.25" Guiding Camera(3)

ToupTek GCMOS camera is guiding CMOS camera and it adopts ultra-high performance CMOS sensor as the image-picking device. USB2.0 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.

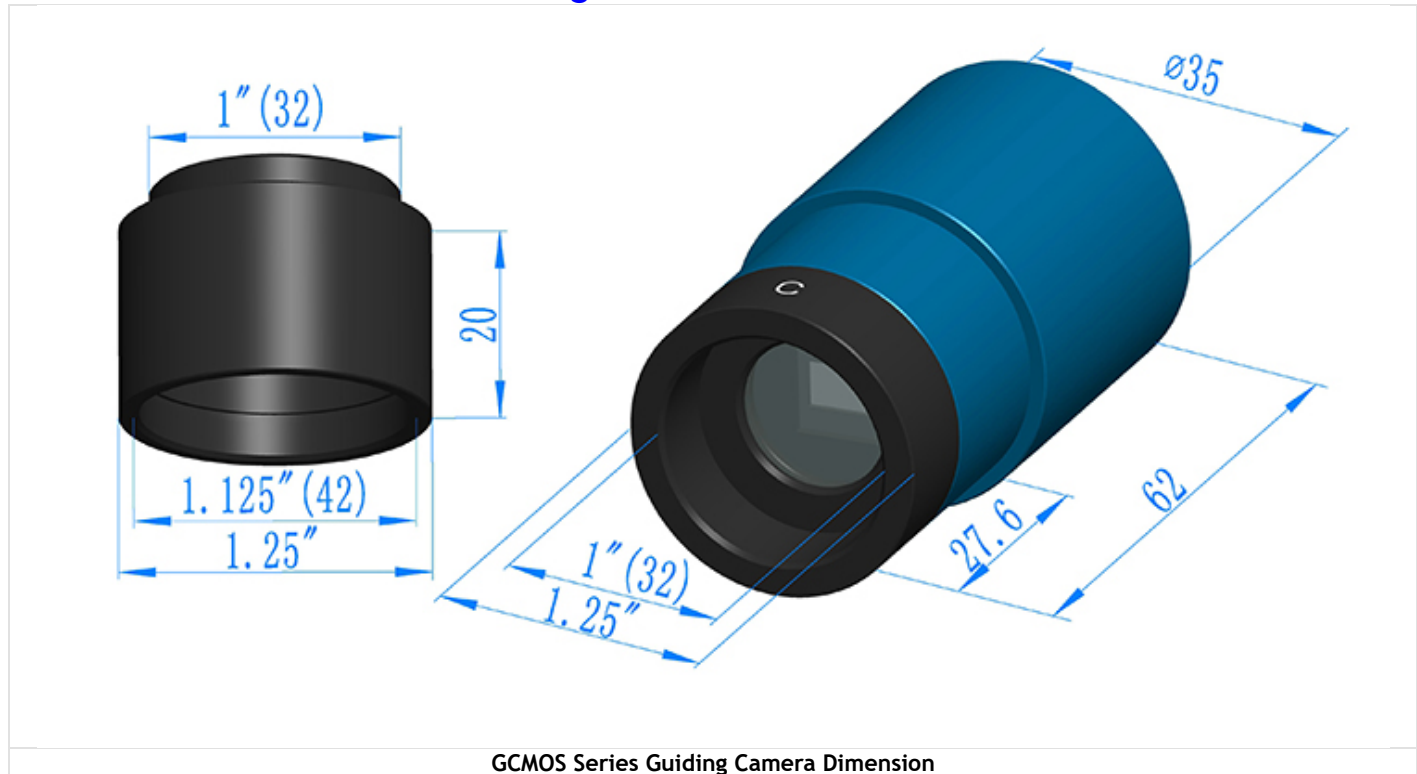
Native/ASCOM/WDM driver for easy connection with 3rd party astrophotography softwares is provided.

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
GCMOS01200KMA GM601200A	1.2M/MT9M034(M) 1/3"(4.8x3.6)	3.75x3.75	6.5v/lux-sec 115dB 43.9dB	18@1280x960 30@640x480	1x1,2x2	0.4ms~800s
GCMOS01200KPB GP601200B	AR0130(C) 1/3"(4.8x3.6)	3.75x3.75	5.5v/lux-sec 85.3dB 44dB	18@1280x960 30@640x480	1x1,2x2	0.4ms~15s
GCMOS01200KMB GM601200B	AR0130(M) 1/3"(4.8x3.6)	3.75x3.75	6.5v/lux-sec 85.3dB 44dB	18@1280x960 30@640x480	1x1,2x2	0.4ms~15s

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);w
Recording System	Still Picture and Movie
Guiding Port	ASCOTM4-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

GCMOS Series USB2.0 CMOS Guiding Camera Dimension



GCMOS Series Guiding Camera and Telescope



GCMOS Series Guiding Camera + Telescope

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