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Череповец (8202)49-02-64
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<https://toupTek.nt-rt.ru/> || tuo@nt-rt.ru



GPCMOS 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

GPCMOS Series USB2.0 CMOS 1.25" Guiding Camera(7)

ToupTek GPCMOS camera is Guiding Plus 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.

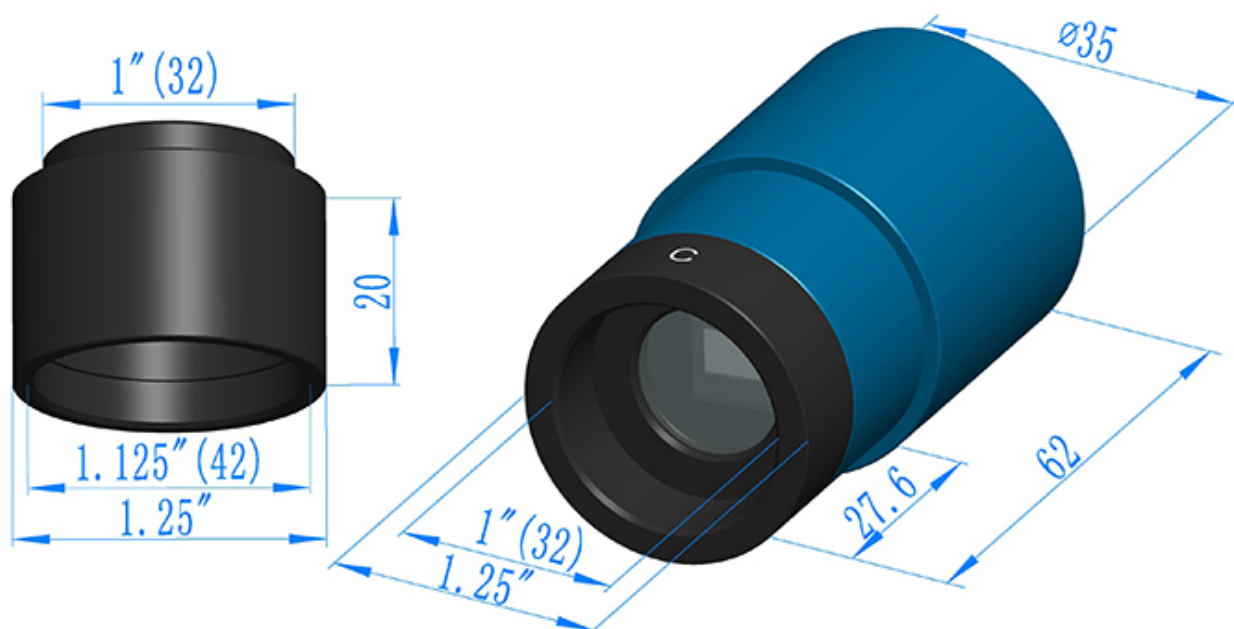
Native/ASCOM/WDM driver for easy connection with 3rd party astrophotography softwares is provided.

The GPCMOS 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
GPCMOS02000KPA GP702000A	2.0M/IMX290(C) 1/2.8"(5.60x3.10)	2.90x2.90	1300mv with 1/30s 0.15mv with 1/30s	16@1920x1080	1x1	0.105ms~1000s
GPCMOS02000KMA GM702000A	2.0M/IMX290(M) 1/2.8"(5.60x3.10)	2.90x2.90	1200mv with 1/30s (F8.0) 0.15mv with 1/30s	16@1920x1080	1x1	0.105ms~1000s
GPCMOS02000KPB GMP702000B	2.0M/IMX327(C) 1/2.8“(5.60x3.10)	2.90x2.90	2500mv with 1/30s 0.15mv with 1/30s	18@1920x1080	1x1	0.105ms~1000s
GPCMOS01200KPB GP701200B	1.2M/AR0130(C) 1/3“(4.8x3.6)	3.75x3.75	5.5v/lux-sec 85.3dB 44dB	28@1280x960 30@640x480	1x1 2x2	0.4ms~800s
GPCMOS01200KMB GM701200B	1.2M/AR0130(M) 1/3“(4.8x3.6)	3.75x3.75	6.5v/lux-sec 85.3dB 44dB	28@1280x960 30@640x480	1x1 2x2	0.4ms~800s
GPCMOS01200KPC GP701200C	1.2M/IMX224(C) 1/3“(4.80x3.60)	3.75x3.75	2040mv with 1/30s 0.15mv with 1/30s	27@1280x960 54@640x480	1x1 2x2	0.105ms~1000s
GPCMOS01200KPF GP701200F	1.2M/IMX225(C) 1/3“(4.80x3.60)	3.75x3.75	2040mv with 1/30s 0.15mv with 1/30s	30@1280x960 109@640x480	1x1 2x2	0.4ms~800s

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	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

GPCMOS Series USB2.0 CMOS Guiding Camera Dimension



GPCMOS Series Guiding Camera Dimension

GPCMOS Series Guiding Camera and Telescope



GPCMOS Series Guiding Camera + Telescope

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