

UGSMT501M GigE Camera



- ◆ Resolution: 5 MP
- ◆ Frame Rate: 24 fps
- ◆ Mono/Color: Mono
- ◆ Shutter: Rolling Shutter
- ◆ Data Interface: GigE

UGSMT501M is a brand-new series of products that our company has comprehensively optimized based on the structural foundation of the third-generation UGSMT product series. It significantly reduces the difficulty of process assembly and further enhances the compatibility of the products. At the same time, it has been optimized to varying degrees in terms of software functionality, enabling more camera usage functions to be implemented in the software code, reducing the amount of logic resources used; lowering power consumption and increasing compatibility.

The camera is developed based on the GigE Vision standard protocol and is compatible with third-party machine vision development software. Our company provides a comprehensive SDK development kit and full technical support to help your project land quickly. The UGSMT series is suitable for applications that have strict requirements on stability, compatibility, size, and cost-effectiveness.

CHARACTERISTIC

- CMOS sensor, 5 MP
- Support hardware triggering, flash sync
- GigE interface with locking socket, supports POE power supply
- Support Windows, Android, Linux, MacOS
- The camera with frame buffer, Multiple cameras working simultaneously

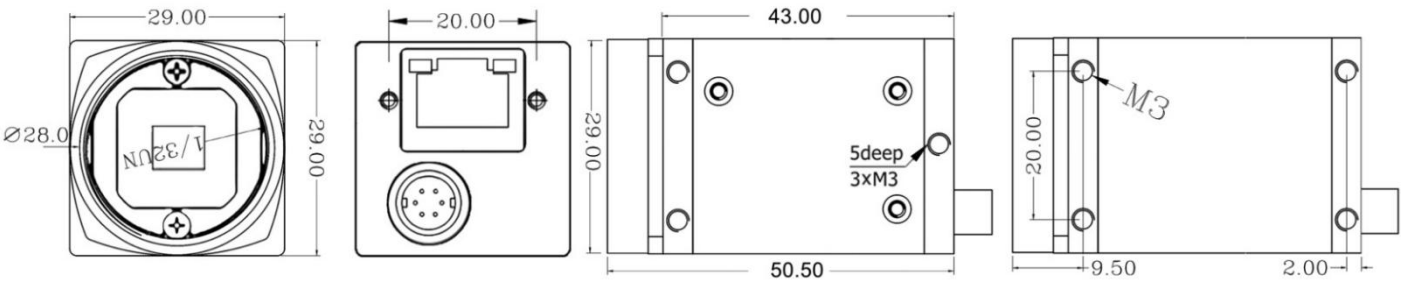
SELECTION KEYPOINT

- No external power supply is required
- Aximum transmission rate 1 Gbps
- The effective transmission distance is 100 metres
- Small, suitable for more application scenarios

TECHNICAL PARAMETER

Model	UGSMT501M
Resolution	5MP
Type	5MP 1/2.8" GigE Camera
Sensor Type	CMOS
Sensor	IMX335
Mono/Color	Mono
Shutter	Rolling Shutter
Resolution(HxV)	2592x1944
Frame Rate	24fps
Sensor size	1/2.8"
Pixel size	2.0μm x 2.0μm
SNR	38.1dB
Gain	15dB
Dynamic Range	90 dB
Exposure Time	0.0617-30000ms
Sensitivity	1.96V/lux-s
Pixel Bit depth	8/10bit
Pixel Format	Mono 8/10 Bayer 8/10
Binning	Supports 1×1, 1×2, 2×1, 2×2
Image buffer	128M Bytes
User parameter area	4K Bytes
Capture mode	Continuous/Soft trigger/Hard trigger
Data Interface	GigE @ 1Gbps
transmission distance	100m
Digital I/O	6-pin connector for power supply and I/O: One opto-isolated input, and two opto-isolated output
Power supply	12 VDC, supports PoE power supply
Power consumption	<3.0 W@12 VDC
Dimension	29mm x 29mm x 43mm (excluding len holder and interface)
Lens mount	C-mount / CS-mount
Ingress protection	IP30
Weight (typical)	66g
Temperature	Working temperature: 0 ° C to 50 ° C (32 ° F to 122 ° F) Storage temperature: -30 ° C to 70 ° C (-22 ° F to 158 ° F)
Humidity	20% to 80% RH, without condensation
Driver	DirectShow、Twain、Halcon、OCX
Software support	Halcon、OpenCV、LabView、Matlab
Development languages	C/C++、VB6、VB.net、Delphi6、C#、QT、C++Builder、LabView、Python
Operating system	Windows、Linux、Android、MacOS

MECHANICAL SPECIFICATION



SPECTRUM CHART

