E-mail: sales@ghopto.com, support@ghopto.com

GHOPTO SWIR CAMERAS

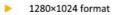
GH-SW1280-GigE



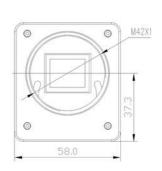
and designed by GHOPTO has a resolution of 1280×1024 pixels, 15µm pixel pitch, and high-sensitivity detection capability in the 900nm-1700nm band, which can provide high-definition images in this band. The camera has TE Cooler built in, has lower dark current, and the readout noise is as low as 40e-. In addition, the camera has a variety of gain modes and non-uniformity correction, which can improve high-definition images in low light condition at night, and can also image through fog and haze. Small in size and light in weight, it is easy to integrate in surveillance systems such as UAV, ships, and airborne optoelectronic pods. It is widely used in various fields such as wafer inspection, surveillance, and hyperspectral imaging.

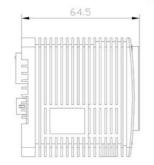
The first domestic high-resolution SWIR camera independently developed

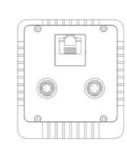




- 15µm pixel pitch
- Windowing
- ▶ TEC
- Low dark current
- Low power consumption
- SDK provided
- Digital 14-bit base GigE output







▲ GH-SW1280-GigE Camera structure

SPECIFICATION

TYPE	GH-SW1280-GigE	
Array Type	InGaAs	
FPA Format	1280 x 1024	
Active Area	19.2 mm x 15.36 mm	
Pixel Pitch	15 μm × 15 μm	
Lens mount	M42 × 1	
Spectral Response	0.9 μm ~ 1.7 μm (Optional 0.4 μm ~ 1.7 μm)	
Quantum Efficiency	> 70%	
Charge handing capacity	1.8Me-	
Cooling Capability	TEC	
Dark current	30fA@0.1V&18℃	
Output Format	GigE	
Digital Output	14bit	
Frame Rate	25 fps@1280 x 1024	
Windowing	Programmable	
Shutter mode	Global shutter	
Readout modes	IWR	
Exposure time	0.2 μs ~	
Operating Temperature	-20° ~ +70°	
Weight	280g (no lens)	
Voltage	12V +-2V	
Dimension (D x W x H)	75 mm × 58 mm × 65 mm	
Power Dissipation	< 4W (no TEC)	
Trigger Interface	RS-422 / TTL compatible	
Noise with ROIC	<40e- (CDS mode)	
Image Correction	1-point & 2-point correction	
Software	SDK provided	





Solar Cell Inspection



Laser Beam Profiling



Surveillance and Security



Plastics Sorting | Airborne Remote Sensing



Medical Imaging | Hyperspectral Imaging