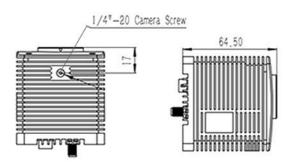
Tel: 0351-7195681 Fax: 0351-7038171 www.ghopto.com

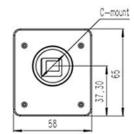
E-mail: sales@ghopto.com, support@ghopto.com



GHOPTO SWIR CAMERAS GH-SW640-U2





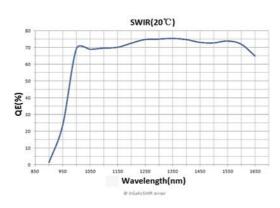


* USB 2.0 camera (weight: 220g)

GHOPTO SWIR camera is based on an in-house developed InGaAs detector with multiple resolutions. The compact GH-SW640-U2 meets requirements of high sensitivity in the SWIR range from 900nm to1700nm and with accompanied by extended wavelength from 400nm to 1700nm options. The camera comes with PAL output and USB2.0 vision interface, supporting 14-bit data transfer and adjustable exposure time. The Short-Wave Infrared (SWIR) camera offers unique capabilities for various applications, such as in Industrial inspections as nondestructive test, Si wafer inspection, liquid level detection in packaging, laser beam profiling and process monitoring.

Features

- Compact industrial design
- Automatic on-board image processing
- Region of interest (ROI) control
- Single point correction of electronic shutter
- VGA/QVGA resolution
- Small size, light weight and low power



A Quantum Efficiency

SPECIFICATION

TYPE	GH-SW640-U2
Array Type	InGaAs
FPA Format	640 x 512
Spectral Response	$0.9 \sim 1.7 \mu\text{m} / 0.4 \sim 1.7 \mu\text{m}$ (optional)
Pixel Pitch	15 μm
Active Area	9.6 mm x 7.68 mm
Quantum Efficiency	$> 70\% (1.0 \sim 1.6 \mu\text{m})$
Frame Rate	50 Hz
Integration Type	snapshot
Integration Time Range	$50 \mu s \sim 20 ms$
On-board Image Processing	One/two-point correction、bad pixel replacement、image denoising、image smoothing, controllable shutter compensation
Operability	> 99.5%
Dynamic Range	76 dB (linear mode)
Charge handing capacity	$1.7 \times 10^4 e^-$ (@HG , 1.8V)
ADC	14 bit
Analog Output	PAL, SMA
Digital Output	USB 2.0
Image Acquisition	GUI / SDK
Trigger	Trigger TTL (optional)
Power Input	DC 12V
Power Consumption	< 2.5W (no TEC)
Lens Mount	C-Mount
Operating Temperature	- 20 °C \sim + 50 °C / - 40 °C \sim + 60 °C (optional)
Storage Temperature	- 40 °C ~ + 80 °C

APPLICATIONS



Solar Cell Inspection



Laser Beam Profiling



Surveillance and Security



Plastics Sorting | Airborne Remote Sensing



Medical Imaging | Hyperspectral Imaging