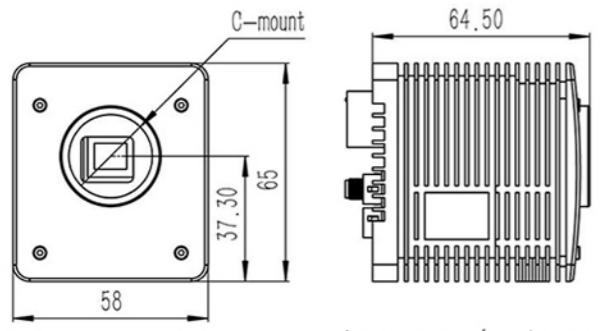
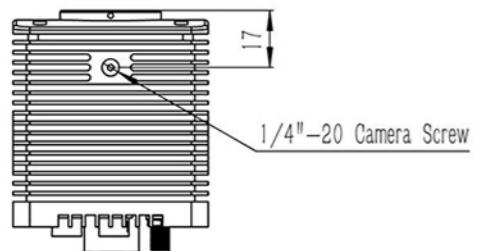


GHOPTO SWIR CAMERAS

GH-SW640-GigE

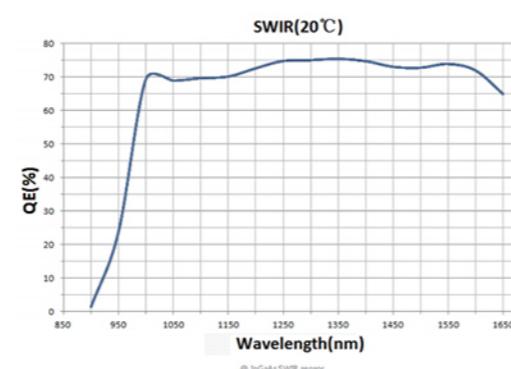


▲ GH-SW640-GigE Camera structure

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

FEATURES

- High-performance Gige network InGaAs camera
- High dynamic range and high frame rate
- Automatic on-board image processing
- Region of interest (ROI) control
- Single point correction of electronic shutter
- Optional screen windowing function



▲ Quantum Efficiency

SPECIFICATION

TYPE
Array Type
FPA Format
Spectral Response
Pixel Pitch
Active Area
Quantum Efficiency
Frame Rate
Integration Type
Integration Time Range
On-board Image Processing
Operability
Dynamic Range
Charge handing capacity
ADC
Analog Output
Digital Output
Image Acquisition
Trigger
Power Input
Power Consumption
Lens Mount
Operating Temperature
Storage Temperature

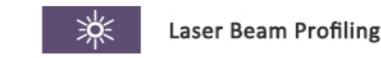
GH-SW640-GigE

InGaAs
640 x 512
0.9 ~ 1.7 μm / 0.4 ~ 1.7 μm (optional)
15 μm
9.6 mm x 7.68 mm
> 70% (1.0 ~ 1.6 μm)
100 Hz
snapshot
50 μs ~ 20 ms /100Hz maximum integral:9ms
One/two-point correction、bad pixel replacement、image denoising、image smoothing, controllable shutter compensation
> 99.5%
76 dB (linear mode)
$1.7 \times 10^4 e^-$ (@HG , 1.8V)
14 bit
PAL、SMA
GigE
GUI / SDK
Trigger RS485 (optional)
DC 12V
< 4W (no TEC)
C-Mount
- 20 °C ~ + 50 °C / - 40 °C ~ + 60 °C (optional)
- 40 °C ~ + 80 °C

APPLICATIONS

	Solar Cell Inspection
	Surveillance and Security
	Plastics Sorting Airborne Remote Sensing

Others | Medical Imaging | Hyperspectral Imaging



Laser Beam Profiling



Plastics Sorting | Airborne Remote Sensing