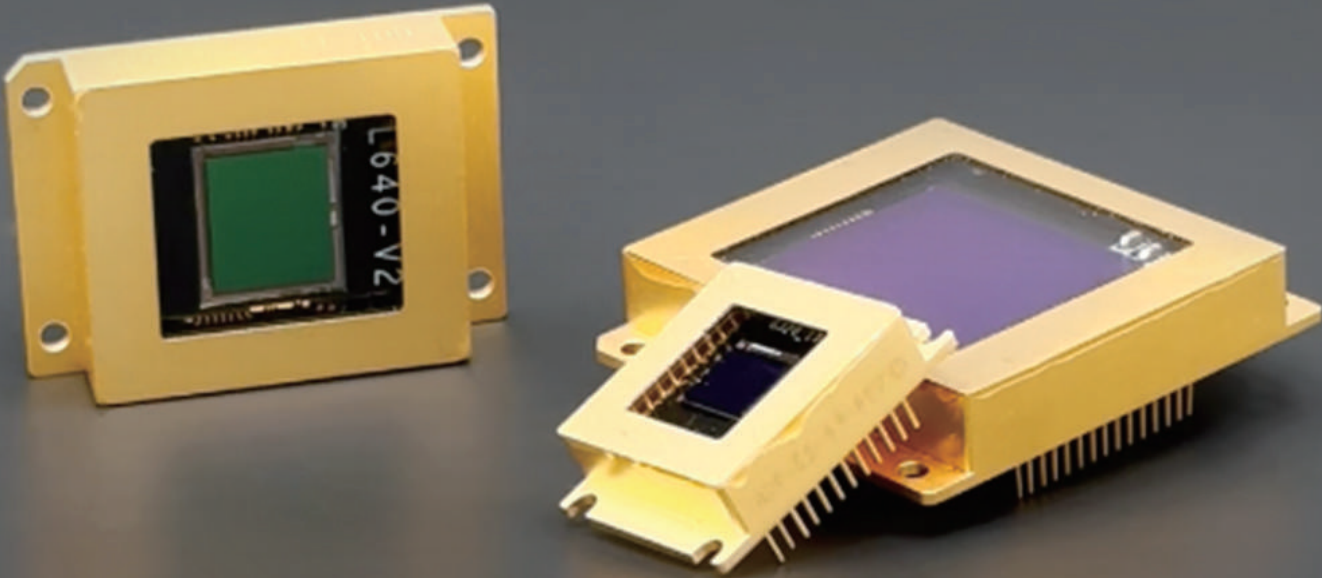




→ Basic Specs

SENSOR	GH-SW320	GH-SW640Pro	GH-SW1280
Material	InGaAs	InGaAs	InGaAs
Array Format	320 x 256	640 x 512	1280 x 1024
Pixel Pitch	15μm	15μm	15μm
Spectral Response	0.9μm ~ 1.7μm	0.9μm ~ 1.7μm 0.4μm ~ 1.7μm	0.9μm ~ 1.7μm

→ Key Specs

SENSOR	GH-SW320	GH-SW640Pro	GH-SW1280
Quantum Efficiency	>70% (1.0μm ~ 1.6μm)	>70% (1.0μm ~ 1.6μm)	>70% (1.0μm ~ 1.6μm)
Readout Noise	35e- @HG	18e- @HG	40e- @HG
Dark Current	30fA@0.1V&18°C	30fA@0.1V&18°C	30fA@0.1V&18°C
Pixel Operability	> 99.5%(Minimum)	> 99.5%(Minimum)	>99.5%(Minimum)
Non Uniformity	< 5%	< 5%	< 5%

→ ROIC

SENSOR	GH-SW320	GH-SW640Pro	GH-SW1280
Integration Type	Snapshot	Snapshot	Snapshot
Readout Modes	ITR, IWR, CDS	ITR, IWR, CDS	ITR, IWR, CDS
Integration Time	0.2μs to full frame	0.2μs to full frame	0.2μs to full frame
Frame Rate Max	500 Hz	300Hz	100 Hz
Maximum Pixel Rate	18MHz	18MHz	22MHz
Output Swing	≤2V	≤2V	≤2V
Temperature Sensor	Yes	Yes	Yes

→ Package

SENSOR	GH-SW320	GH-SW640Pro	GH-SW1280
Dimensions	24 x 18.5 x 6mm	36 × 25.4 × 7.2mm	40 × 36 ×7.2mm
Window Material	Quartz / sapphire	Quartz/ sapphire	Quartz/ sapphire
No.of Pin	24-pin Metal DIP Package	28-pin Metal DIP Package	30-pin Metal DIP Package
Packaging Type	Hermetically sealed	Hermetically sealed	Hermetically sealed
Operating Temperature	- 40°C ~ 70°C	- 40°C ~ 70°C	- 40°C ~ 70°C
Storage Temperature	- 40°C ~ 70°C	- 40°C ~ 70°C	- 40°C ~ 70°C