iCt-SWG130S-Pro

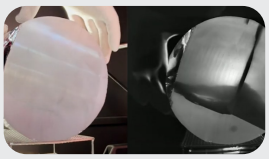
KEY FEATURES

iCt-SWG130S-Pro features a 1.3MP InGaAs sensor for 0.4-1.7μm SWIR imaging. It guarantees reliable data transfer via Gigabit Ethernet and 256MB cache, with built-in ISP functions for enhanced image quality. Fully compliant with GigE Vision and GenICam for easy integration.

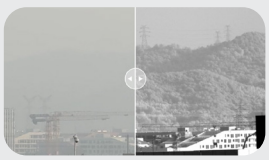
- Spectral Range: 400~1700nm.
- Supports gamma, LUT, black level, contrast, 3D denoising, and sharpening adjustments.
- GigE Vision V2.0, GenICam compliant, 256MB on-board cache.
- Compact design with four-side mounting support, ideal for tight spaces and flexible system integration.

TYPICAL APPLICATIONS

Fruit Spoilage Detection



Inspection of Silicon Wafer



Fog Penetration

Inspection of Contents In Packaging

▸ IMAGE SPECIFICATION

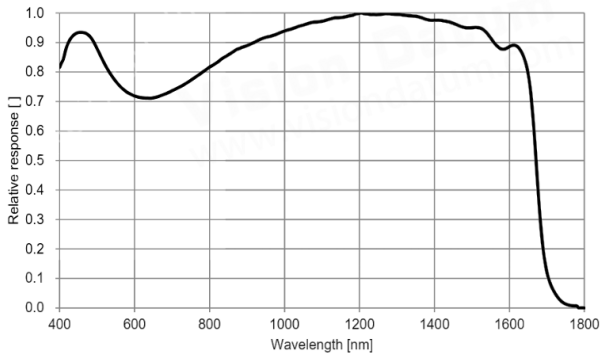
Model	iCt-SWG130S-Pro
Resolution	1280 × 1024
Frame Rate	91 fps
Sensor	IMX990 (1/2"CMOS InGaAs)
Pixel Size	5 μm × 5 μm
Spectral Range	400~1700nm
Bit Depth	12
Shutter Type	Global
SNR	56 dB
Dynamic Range	52 dB
Image Format	Mono8/10/10Packed/Mono12/Mono12Packed
Binning	off, 1×2, 2×1, 2×2, 1×4, 4×1, 2×4, 4×2, 4×4, 3×3, 1×6, 6×1, 6×6
ROI	Support
Flip X	Support
Flip Y	Support
Gain	1 ~ 32X
Gamma	LUT Range: 0 to 3.99998, with LUT
Exposure Time	Ultra-Short: 3 μs ~ 14 μs Standard: 15 μs ~ 10s
Image Acquisition Mode	Software Trigger, Hardware Trigger, Free Run
SPC	Support
Configuration Channel	Supports saving 3 sets of user-defined configurations
Buffer	256MB

▸ CONNECTIVITY

Interface	GigE, PoE
GPIO	Hirose (6-pin): 1 channel optically isolated input, 1 channel optically isolated output, 1 channel configurable digital I/O (non-isolated)
Power Supply	PoE or 9-24V DC (via Hirose)
Power Consumption	2.8W (Typ. @12VDC)
Lens Mount	C-Mount

iCt-SWG130S-Pro

▶ SPECTRAL RESPONSE

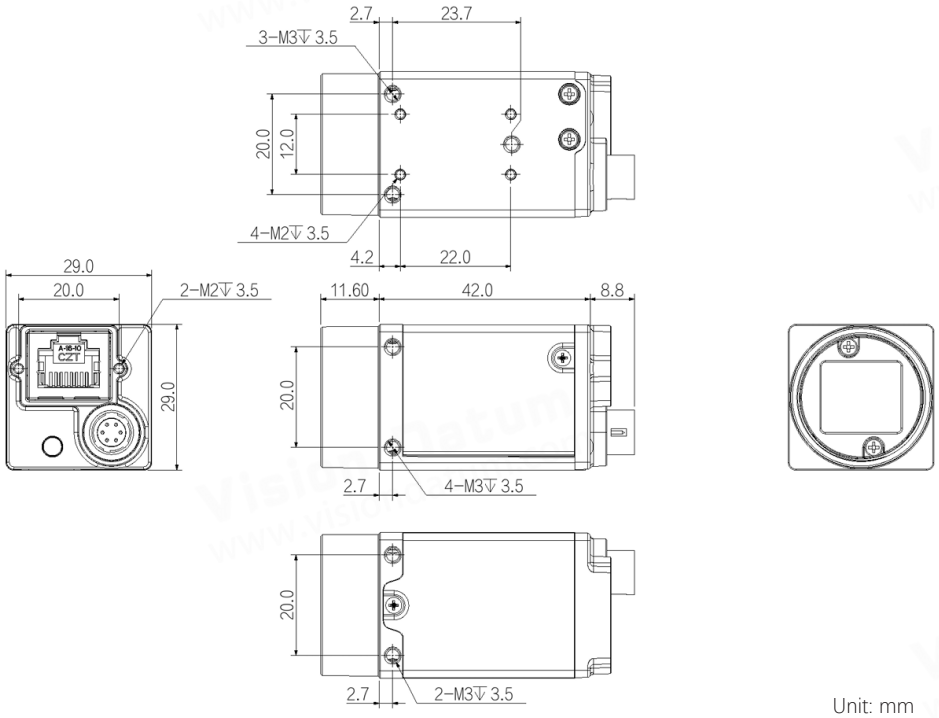


▶ ENVIRONMENT

Storage Temperature	-30℃～ +80℃
Operating Temperature	0℃～ +50℃

▶ DIMENSIONS

Size	29×29×42 mm (98g) (excluding lens mount and rear port interface)



Unit: mm

FOR MORE INFORMATION CONTACT

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