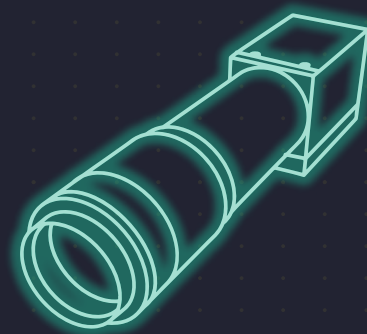


ULTRIS SWIR-1G



Expanding Human Vision

The ULTRIS SWIR-1g captures 38 spectral channels across the short-wave infrared range from 980 to 1664 nm. Its C-mount interface supports different SWIR lenses and optical configurations, making the camera suitable for laboratory, industrial and research applications.

With snapshot acquisition at up to 92 fps, all spectral channels are captured simultaneously without scanning. GigE connectivity, external triggering and optional active cooling support integration into laboratory and industrial systems, including dynamic and continuous measurement tasks.

38

Spectral Channels

200 × 200 PX

Spatial Resolution

92 HZ

Max Frame Rate

140 G

Weight

Technical Specifications Ultris SWIR-1g

Imaging

Technology	Light Field
Readout	Global Shutter
Spatial Resolution	200 × 200 pixel
Lens Mount	C-mount
Integration Time	0.1–60,000 ms
Max Frame Rate	61 fps HQ · 92 fps LQ
Data Depth	8/12 bit

Spectral & System

Wavelength Range	980–1664 nm
Spectral Channels	38
Spectral Sampling	18 nm
FWHM	65 nm typical at standard sampling
Bandpass Filter	LVF
Spectral Data Points	1.52 M
Sensor	Sony IMX990
Data Link	GigE
Cooling	Passive · optional active air or water cooling
Weight · Dimensions	140 g · 36 × 36 × 104.85 mm



ULTRIS SWIR-1g on the Cubert Knowledge Base.

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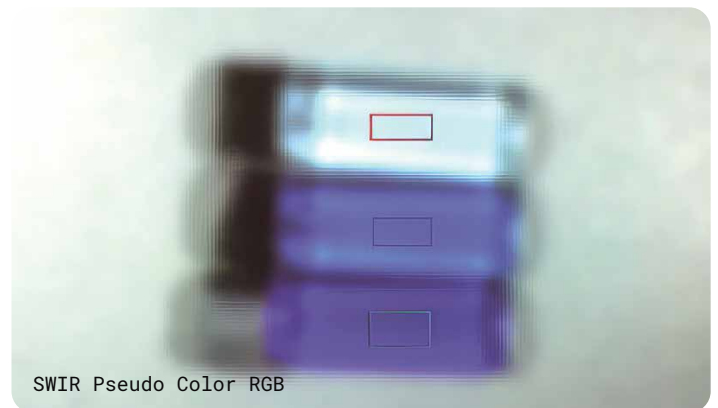
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INFORMATION BEYOND THE VISIBLE

The SWIR range reveals spectral differences that are not accessible to conventional visible imaging. Absorption features related to water, organic compounds and material composition can provide additional contrast for identification, differentiation and quantitative analysis.

Typical applications include moisture and material analysis, food and agricultural inspection, plastics and chemical differentiation, scientific imaging and cultural heritage research.



Water, alcohol and acetone in visible RGB and SWIR pseudo colour. Spectral information in the SWIR range allows materials with similar visible appearance to be differentiated.

THE SNAPSHOT ADVANTAGE

All 38 spectral channels are captured simultaneously in every exposure, without mechanical scanning. This reduces motion between spectral bands and enables hyperspectral imaging of moving objects and changing processes.

With no scanning axis or moving optics, the SWIR-1g can be integrated into setups ranging from laboratory measurements to industrial inspection.



ULTRIS SWIR-1g shown with optional C-mount lens.

