SWIRIS
Short Wave InfraRed Innovative Systems

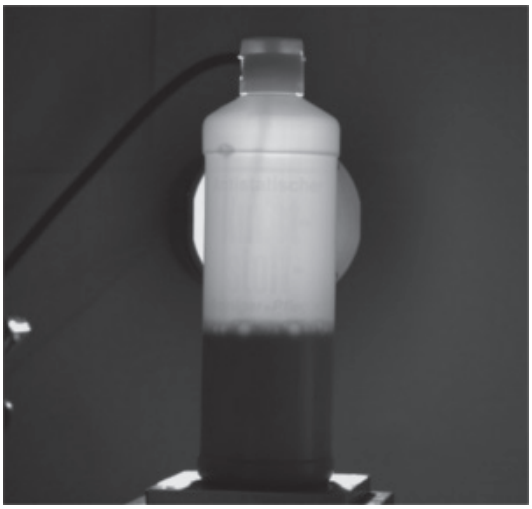
Application DataSheet : Filling & Capping Systems

The SWIR is the spectral band typically defined beetwen 1 and 2.5 µm. On the boundary between visible and thermal imaging, this light field has unique properties, allowing to reveal phenomena and elements invisible to the naked eye :

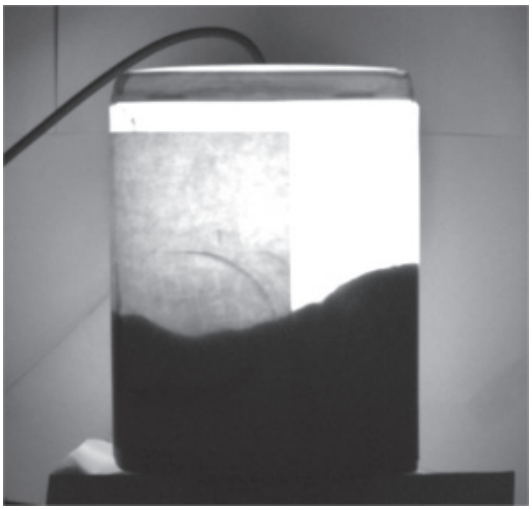
- See through opaque materials (plastics, silicon ...)
- Reveal elements like water, lipids, collagen ...
- See through smoke, fog and dust, day and night

Using a powerful, controled and camera-adapted light flux, SWIRIS leads the way to new applications, including Filling & Capping inspection systems, replacing in most cases X-Ray Systems.

Detect & Control liquid filling level inside a plastic container



Detect & Control solid filling level inside a plastic container



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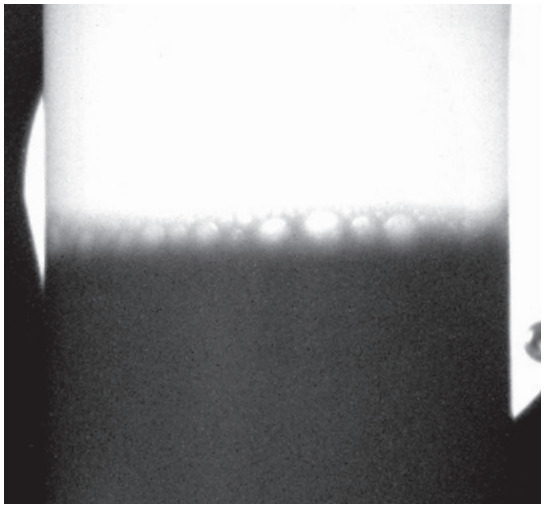
Check the presence of internal parts, as a gasket

See writenings through plastics, as behind a cap

Highlight the presence of a contaminant inside a liquid or a solid, or bubbles



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SWIRIS
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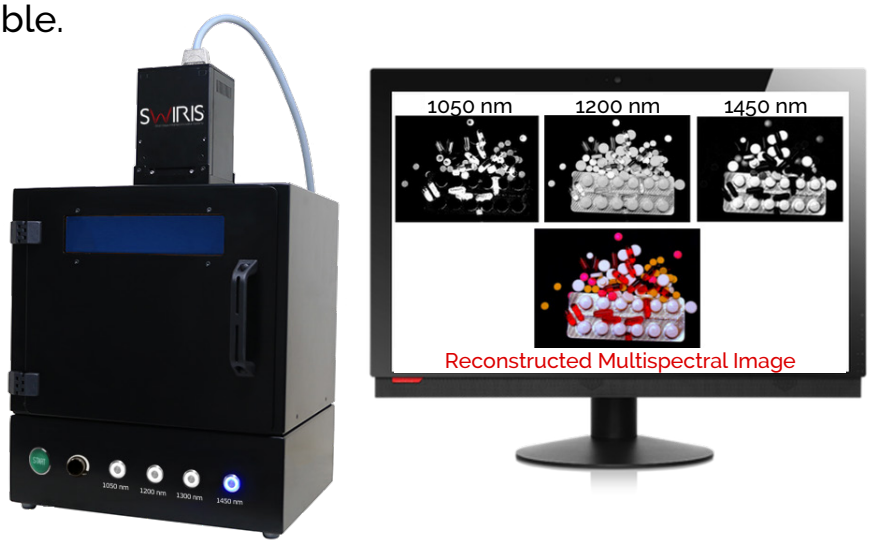
SWIR & Multispectral LED Vision Systems

SWIRIS designs & manufactures **powerful SWIR LED lightings**, and combines them with high-performance sensors into complete SWIR vision systems, fully thought out and optimized by our engineering team.

Plug & Play Solutions

From the light source to the sensor, we provide customized vision systems able to **reveal the invisible.**



SWIR SpectroStudio - MultiSpectral Imager

Analyse samples through any wavelength!

Each image you get comes from a different wavelength, giving you an easy opportunity to identify and discriminate materials and components in your sample. Using a **power-controlled** LED source, which you can **adjust from 0.4 to 1.7 µm**.

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SWIRIS
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SWIR & Multispectral LED Vision Systems

LED Lighting Solutions

A wide range of **direct** & **backlight** illuminations, for **matrix** or **line scan cameras.**


BACKLIGHT

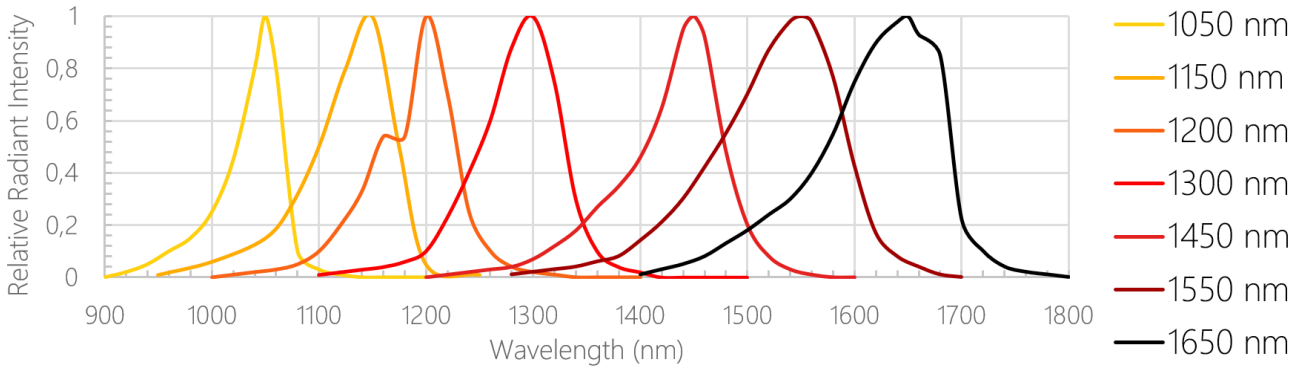
CUBE


SPOT


RING


BAR

Multiple wavelenghts available, for **monochromatic** or **multispectral** applications.



SWIR Cameras

SWIRIS join with leading-edge sensors manufacturers in order to advise you, test with you and offer you solutions that are tailored to your needs, with optimal performances and the best prices.






Cooled or Uncooled, High-Dynamic (HDR), QVGA VGA or even HD resolution (up to 2 MP), embedded images processing software or SDK development ...

Interested in those products?
Wanting a customized study?
Feel free to contact us !

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