



Industrial processes monitoring by Hyperspectral Imaging

IRIS Technology Solutions SL (Barcelona)
Alejandro Rosales (Sci & Tech Manager)

Wednesday, 6 May 2020, 15:00 CEST

EPIC Online Technology Meeting on Hyperspectral Imaging

About IRIS Technology Solutions

- ✓ More than one decade in the market
- ✓ Facilities and offices in Barcelona and Madrid
- ✓ 70 highly qualified multidisciplinary staff
- ✓ Among the top-10 SMEs with H2020 granted R&D projects
- ✓ Manufacturers of industrial-grade NIR analyzers and **hyperspectral imager proprietary product line** under the Visum trademark
- ✓ Developers of tailor-made cloud-based software platforms with built-in AI tools
- ✓ Providers of advanced engineering services for undertaking novel applications and integrating turn-key solutions



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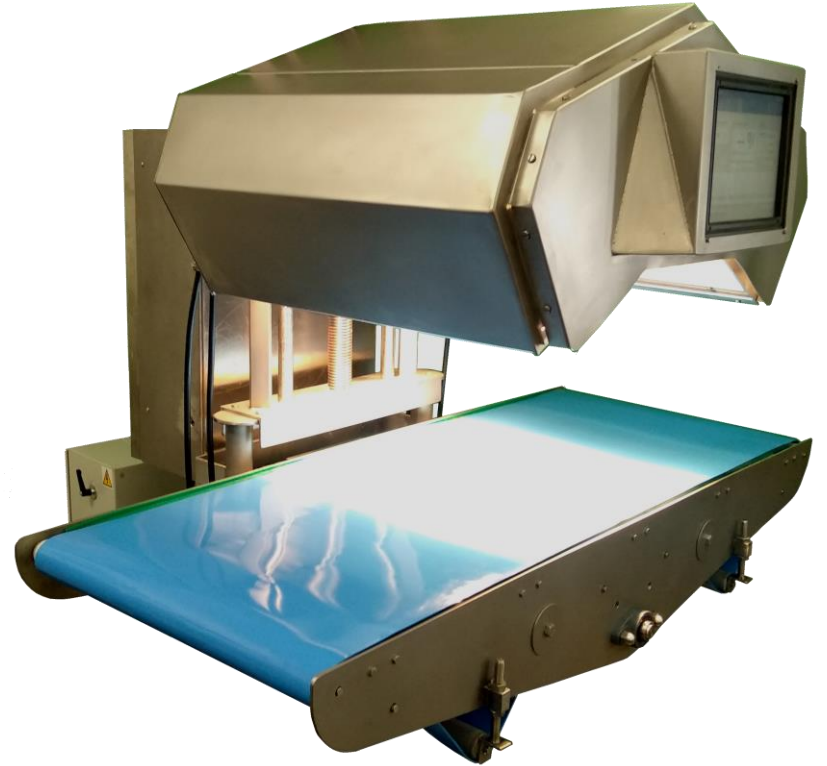


Providers of turn-key Photonics-based solutions for monitoring industrial processes

We integrate off-the-shelf cameras into a comprehensive turn-key setups in two possible configurations:

- ✓ Visum-HIS: **Flexible** for being adapted to both every specific application and each production line geometry. **Proprietary illumination module and software**. Bespoke machine learning predictive models.
- ✓ HPR: A rather **stand-alone product** that comprises not only a specific hyperspectral setup but also a motorized conveyor belt in a common housing.

We also provide tailor-made ICT solutions for integrating our setup in the plant data management system, if required.



What can we do for you? What can you do for us?

IRIS is continuously searching for new off-the-shelf cameras providers to reach new market niches

- ✓ In both VIS-NIR and SWIR (90-1700 nm or beyond)
- ✓ Much more affordable -ideally, below 10 k€ threshold
- ✓ Better spatial resolution -more than 1000 pixels
- ✓ Fast -less than 1 mS/line @ normal illumination level
- ✓ Small snapshot for handheld applications
- ✓ Multispectral -if it entails much lower price compared to >100 spectral channels

IRIS is willing to explore win-win partnerships and joint ventures to take advantage of any new **need/opportunity** in the industrial sector that could be tackled by means of either hyperspectral imaging or “spot” spectroscopy



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