

Miniaturized hyperspectral imaging solutions

Enabling new applications and business

Our R&D customer companies generate award-winning sensor products to boost their growth business - three San Francisco Photonics West Prism Award finalists and two winners!

- Experienced hyperspectral imager design-and building team with track-record to meet high-performance requirements for demanding sectors like small satellites, medical and diagnostics and drones
- MEMS-based volume-scalable technology enables future possibilities for mobile and IoT: spectral imaging for autonomous systems, smart homes and consumer health
- External R&D partnerships enable providing full application solutions with artificial intelligence and algorithms development





Customized prototype examples

Small satellites and new space

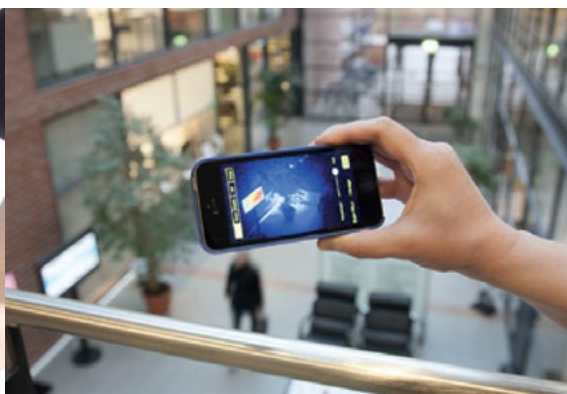
- CubeSat-compatible space-qualified hyperspectral imagers for Vis-VNIR and SWIR
- Miniaturized spectrometers for IR

Stand-off detection and UAVs

- UV-range hyperspectral imaging for ship emissions of SO_2 and NO_x

Precision agriculture

- Wide wavelength range instruments (500 - 1600 nm) for measuring fertilization, irrigation need and plant diseases



Medical and diagnostics

- Hyperspectral imager for fast skin cancer screening
- Hyperspectral microscopes

Hand-held, mobile and IoT

- Volume-scalable MEMS FPI technology for mobile hyperspectral imaging in Vis/VNIR (600 – 900 nm)
- Wearable/mobile CO₂ gas sensors, hydrocarbon sensing

The logo for VTT, consisting of the letters 'VTT' in white, bold, sans-serif font, centered within an orange square.

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beyond the obvious