

Optical Systems



Airborne hyperspectral remote sensing

Complete solutions and
integration packages

Hyperspectral camera integration packages

The systems are ready for integration into a drone (UAS) or aircraft for remote sensing.

Available systems include:

- Ultralight Nano Hyperspec VNIR airborne system
■ system to diagnose photosynthesis of plants (areas) and observe the oxygen absorption bands O₂-A and O₂-B
- Lightweight VNIR & SWIR airborne system (400-2,500 nm wave length)
- Micro Hyperspec VNIR, NIR or SWIR

All systems comprise the following

- control and image corrections
- analysis, georeferencing of hyperspectral data (Google Maps overlay)
- Radiometric calibration of camera and lens
- Calibrated reference plane (9 m²; white and 2 grey grades)
- 1 year technical support

Compact Nano Hyperspec system weighing under 500 g



Wave length range	Hyperspectral system	Spectral range [nm]	Weight [kg]
Broadband	Hyperspec VNIR-SWIR	400-2,500	2.83
VIS/NIR	Mirco Hyperspec VNIR	400-1,000	1.4
	High-Efficiency Mirco Hyperspec VNIR	400-1,000	1.1
	Nano Hyperspec VNIR	400-1,000	0.5
NIR/SWIR	Mirco Hyperspec NIR	900-1,700	0.9
	Mirco Hyperspec extended VNIR	900-1,700	0.9
	High-Efficiency Mirco Hyperspec	900-1,700	0.9
SWIR/MWIR	Mirco Hyperspec SWIR	900-2,500	1.6-2.0
	High-Efficiency Mirco Hyperspec SWIR	900-2,500	2.0

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