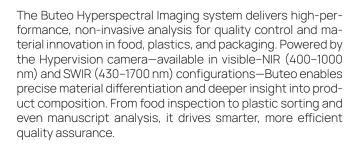


Product sheet

Buteo

Hyperspectral Equipment



Application examples:

- Suited for scanning of liquids and delicate objects
- Rapid quality control and chemical analysis
- Surface treatment inspection
- Material recognition

HYPERVISION 1000 (VIS-NIR)

The Hypervision 1000 is a pushbroom hyperspectral camera covering the visible to near-infrared (VIS-NIR) range from 400-1000 nm. Powered by the Gsense sCMOS sensor, it provides high spectral precision for industrial and research applications.

HYPERVISION 1700 (VIS-SWIR)

The Hypervision 1700 extends hyperspectral imaging into the short-wave infrared (SWIR) range, covering 430-1700 nm in a single camera unit. Utilizing the IMX990 sensor, it enables enhanced chemical differentiation, making it ideal for applications such as plastic type identification, surface treatment analysis, and bio solutions.

Hardware	Description	
Slit sizes	20 μm (standard) , 30 μm	
Spectral resolution	6 nm	
CPU	AMD Ryzen V1605B (8) @2.000 GHz	
GPU	AMD ATI Radeon Vega Series	
Al Chip	Hailo-8 Edge	
Sensor Interface (AFE)	Kintex-7 XC7K160T (PCIe 2.0 x4)	



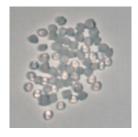
Specifications	Hypervision 1000	Hypervision 1700
Spectral range	400-1000 nm	430 - 1700 nm
Spatial resolution	1884 pixels	1296 pixels
Spectral bands	330	920
Spectral sampling	1.77 nm/pixel	1.38 nm/pixel
Pixel size	6.5 µm	5.0 µm
Maximum frame rate*	250 fps	150 fps
Shutter type	Global/Rolling	Global

RGB VS HYPERSPECTRAL IMAGE

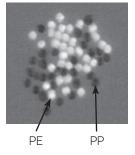
Our Hypervision system enables plastic type differentiation beyond the capabilities of RGB cameras. In the image, it effectively identifies Polypropylene (PP) and Polyethylene (PE).

Hyperspectral imaging reveals chemical composition differences invisible to the naked eye, aiding in fruit bruise detection, crop stress analysis, water content measurement, and material identification

RGB



Hyperspectral



INCLUDED SOFTWARE

The Hypervision system includes powerful software for data analysis. HV Explorer is a lightweight Python tool for loading, visualizing, and processing hyperspectral data cubes. More information about our hyperspectral cameras can be found on docs.qtec.com

