

VNIR Hyperspectral Analyzer



Overview

The HySpex VNIR-1800 hyperspectral camera is developed for field, laboratory, and airborne applications. Exploring VNIR Hyperspectral Imaging: The Role and Importance of VNIR Sensors in Hyperspectral Cameras and Spectral Imaging Visible-Near Infrared (VNIR) sensors capture light within the visible (400-700 nm) and near-infrared (700-1000 nm) wavelength ranges of the electromagnetic spectrum. VNIR. At XRTech Group, VNIR is not just a wavelength range. This makes VNIR-1800 the ideal camera for high-end data acquisitions where high radiometric. At HySpex, we provide advanced hyperspectral imaging solutions for the most demanding environments — from industrial production lines to scientific research and orbital missions. Our products combine superior optical design, precise calibration, and unmatched image quality. Powered by its unique and patented technology based on Fourier Transform (FT) detection, HERA VNIR delivers exceptional spatial-spectral.



Article Content

HERA VNIR | Nireos

HERA VNIR is a compact and rugged hyperspectral camera that introduces an innovative approach to spectral imaging in the visible and near-infrared range.

Status and application of advanced airborne hyperspectral imaging ...

By illustrating the status and prospects of typical airborne hyperspectral imagers, this overview provides a comparison of the technologies employed in previous hyperspectral imaging

VNIR-SWIR Imaging Spectroscopy for Mining: Insights

In this paper, we review applicable instrumentation, software components, and relevant studies deploying hyperspectral imaging datasets in or

Near-Infrared Analyzer Features

The Thermo Scientific Antaris family of near-infrared analyzers (NIR analyzers) offers completely integrated solutions for various industries. [Learn more!](#)

Hyperspectral imaging

Hyperspectral imaging in the visible near-infrared (VNIR) spectral range can effectively distinguish between dye-based and pigment-based inkjet prints,

Hyperspectral camera | Smart device | Integrated RGB

Super lightweight, smart hyperspectral camera with integrated GPU for pre-processing. Take both RGB and hyperspectral images at once.

NIR Hyperspectral Imaging: Sensors and Applications

NIR hyperspectral imaging has been proven helpful across various industries, significantly improving inspection, sorting, and analysis processes. Hyperspectral

HySpex | Industry-Leading Hyperspectral Solutions

HySpex delivers high performance hyperspectral imaging systems for research, industry and space applications, with precision and reliability in every pixel.

High-Speed Hyperspectral Imaging for Near Infrared

Hyperspectral imaging captures both spectral and spatial information from a sample but is intrinsically slow. The near infrared (NIR, > 800 nm) is

Hyperspectral Cameras and Imaging Systems

VEGETATION Plant health and physiological processes often reveal themselves in subtle spectral changes long before visible symptoms occur. Hyperspectral

What is VNIR hyperspectral imaging?

In summary, VNIR hyperspectral imaging captures high-resolution spectral data in the visible and near-infrared regions. This data is essential for identifying materials and analyzing their properties.

HERA VNIR | Nireos

Analyse spectra at selected points or areas, calculate reflectance images, perform statistical analysis with in-built functions and visualize the RGB or false-color

HSI Solutions for Mining and Mineral Exploration

In today's fast-moving exploration environment, hyperspectral imaging (HSI) has become a key technology for mining and mineral exploration. Specim's

SNAPSCAN VNIR evaluation system

Acquire images with high spatial and spectral resolutions in seconds. Get instant insights thanks to imec's included software for acquisition, pre-processing and

Hyperspectral Cameras and Drones: A Practical Guide

Plan reliable push-broom hyperspectral flights, speed, AGL, overlap, calibration, and compare VNIR/SWIR camera families that pair well with UgCS

HySpex VNIR-1800 | Hyperspectral Camera

High-speed HySpex VNIR-1800 hyperspectral camera with cooled CMOS detector for superior radiometric accuracy in lab, field and airborne imaging.

Hyperspectral Imaging Cameras | ClydeHSI

High spectral and spatial performance hyperspectral cameras covering a broad spectral range from 400 to 2500 nm.

Towards the non-destructive analysis of multilayered samples: A novel ...

In this paper recently commercialized analytical set-up, which is able to co-register VNIR, SWIR, and XRF spectral data simultaneously, is exploited in combination with an innovative

Hyperspectral Imaging Cameras Market Trends 2026-2033 ...

The "Hyperspectral Imaging Cameras Market" prioritizes cost control and efficiency enhancement. Additionally, the reports cover both the demand and supply sides of the market.

Near-infrared hyperspectral imaging for determination of protein ...

The protein content is an essential quality parameter that is measured by the breeding programs and food industries to maintain high-quality standards for barley. The traditional methods

Hyperspectral near infrared imaging using a tunable spectral phasor

Abstract Hyperspectral imaging captures both spectral and spatial information from a sample. The near infrared (NIR, > 800 nm) is advantageous for biomedical imaging as it falls into the tissue

What is VNIR hyperspectral imaging?

Exploring VNIR Hyperspectral Imaging: The Role and Importance of VNIR Sensors in Hyperspectral Cameras and Spectral Imaging Visible-Near Infrared (VNIR)

Near-infrared spectroscopy and hyperspectral imaging: non

Near-infrared (NIR) spectroscopy has come of age and is now prominent among major analytical technologies after the NIR region was discovered in 1800, re

What Is VNIR Hyperspectral Imaging? VNIR vs SWIR

Learn what VNIR hyperspectral imaging is, its 400–900 nm range, and how VNIR vs SWIR powers mining, agriculture & environmental monitoring.

Hyperspectral Cameras, Sensors and Imagers

Specim has pioneered hyperspectral imaging (HSI) technology since 1995 and is the leading global supplier of hyperspectral cameras and imaging systems. We offer

Hyperspectral Cameras, Sensors and Imagers

We offer the broadest range of high-quality hyperspectral cameras covering wavelengths from visible and near-infrared to the thermal range (VNIR, NIR, SWIR, MWIR, and LWIR).

VNIR Hyperspectral Camera (500-1000 nm)

Hyperspectral imaging provides detailed spectral information that supports automated quality control and more reliable inspection processes. Hyperspectral

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