400-1700nm

Hyperspectral Imaging Microscope

Product Overview

The NWH5000 Series Hyperspectral Imaging Microscope: See the Spectrum at the Microscopic Level. The NWH5000 is a fully integrated, high-precision instrument designed for advanced microscopic spectral analysis. By combining automated push-broom hyperspectral imaging with high-magnification microscopy, the system leverages the microscope's optical path to capture detailed spectral data and spatial images within the microscopic field of view without requiring sample scanning. This powerful combination provides unparalleled insight into the composition and characteristics of samples, opening new possibilities in biomedicine, materials analysis, life sciences, and forensic investigation.

Features

The NWH5000 series, equipped with lenses of different magnifications, allows for high-resolution observation and hyperspectral imaging at various zoom levels.

Supports both reflective and transmissive illumination modes for versatile high-quality imaging.

Equipped with a CCD camera and hyperspectral imager, enabling rapid, clear observation and measurement over large areas with precise focusing, thereby achieving synchronized collection of visible images and hyperspectral data.

Compact design with built-in focus and zoom control, eliminating the need for manual adjustments and ensuring distortion-free imaging.

Standard micro-interfaces and adapters compatible with various microscope brands, making integration straightforward.

Uses a dedicated full-spectrum light source suitable for both transmission and reflection illumination, meeting the needs of professional microscopy lighting.

Supports high spatial and spectral resolution imaging for detailed analysis.

Compatible with other brand microscopes such as Olympus, Carl Zeiss, Nikon, and Leica for flexible, professional hyperspectral microscopy.

Application

Medical and Healthcare: Cancer tissue classification, tissue morphology inspection, drug development, and pathology research.

Biology: Bacterial and cell analysis.

Materials Science: Microstructure observation and identification.

Forensic Industry: Crime scene residue analysis and evidence examination.

Electronics Industry: Semiconductor inspection, display panel analysis, and screen testing.