

Hyperspectral Quality Analyzer

NY7000

Features

- Efficient imaging and detection capabilities
- Rich spectral information and precise analysis
- Diverse configurations and flexibility
- Automation
- Wide range of applications

Application

- Crop quality analysis
- Crop screening
- Particle size and particle size distribution
- Packaging inspection
- Mineral identification
- Food analysis
- Life science research

Description

The Hyperspectral Quality Analyzer is an advanced tool designed to revolutionize quality assessment across various industries. By capturing detailed spectral information, this cutting-edge instrument enables precise analysis of crops, pharmaceuticals, and materials.

Hyperspectral Quality Analyzers find extensive use in agriculture for crop quality evaluation, selection, and monitoring. In the pharmaceutical sector, they ensure drug consistency and efficacy. Their application extends to mineral identification and environmental monitoring, making them invaluable in both research and industrial settings.

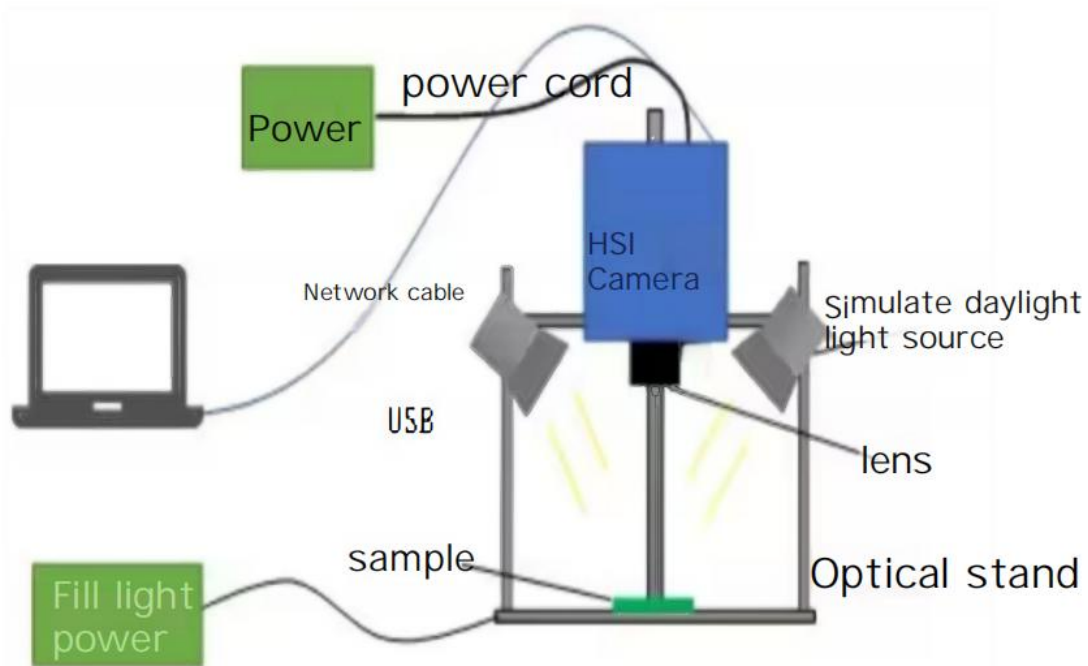
Technical trends highlight the growing importance of hyperspectral imaging for its non-destructive testing capabilities and real-time data processing. This technology is enhancing accuracy in quality control and contributing to innovations in sectors like life sciences, mining, and manufacturing.



1. Parameter

Parameter	Specification
Imaging Mode	Line scanning
Spectral Range	900-1700 nm (customizable)
Sample Field of View	50-200 mm
Platform Dimensions	710 mm x 380 mm x 810 mm
Maximum Sample Size	200 mm x 300 mm x 45 mm
Scanning Speed	- 3 mm/s with 30 micron pixel - 30 mm/s with 300 micron pixel - 60 mm/s with 600 micron pixel
Scanning Time	< 7 seconds for 256 bands
Light Source	Halogen lamp
Instrument Accessories	Laser alignment device, white board calibration unit, focusing module
Storage Temperature	-20 to +85°C

2. Principle



NY7000 is composed of a light source, a hyperspectral camera, etc., and is based on the measurement and analysis of optical properties such as absorption, scattering and emission of light by substances. This analyzer is capable of capturing and resolving subtle spectral features of substances over a wide spectral range, converting them into visual spectral plots or data reports through a series of algorithms. These spectral charts or data reports display the spectral characteristics of substances at different wavelengths,

such as absorbance, reflectance, emissivity, etc., thereby providing information on the composition, structure, quality, etc. of the substance.

3. Apply Image

