

# Coating Detection Spectrometer



## Overview

Utilizing advanced EFP algorithm and microfocus X-ray technology, it efficiently measures multi-layer coatings (up to 23 layers) on various substrates, ensuring quality control and compliance in industries such as jewelry, electronics, and automotive manufacturing. PHOTON RT is the world's only spectrophotometer purpose-built for true optical coating metrology — enabling meaningful, traceable characterization of coatings under field-like operating conditions. Coatings, whether protective, decorative, or functional, often consist of complex. act mixture ratio has on coating performance—resistance to heat, water, chemicals, radiation a polymer reinforced with carbon fibre o sacrifice their samples for analysis - either cutting them to fit into instrumentation or destroying them during sample preparation. The instrument is produced in six configurations relative to the effective wavelength range - from 185 nm up to 5200 nm.

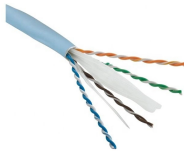
## Coating Detection Spectrometer



Spectrophotometer for fast, automated coating tests. Measure transmittance & reflectance from 185–5200 nm. Ideal for lenses, prisms & optics QA.



Fourier Transform Infrared (FTIR) spectroscopy is a critical analytical tool for characterizing coatings across a wide range of industries, including automotive, aerospace, ...



The Perkin Elmer Lambda 950 UV-Vis-NIR spectrophotometer displays ultra-high UV/Vis/NIR performance for wavelengths up to 3300 nm, high precision measurements, and for applications ...



Use our coating and paint color instruments to measure a wide range of samples including pigments, bases, draw downs, finished product and coated coil.



As discussed above, LIDT tests based on ISO standards are not viable for coatings with high damage thresholds. LAYERTEC developed an LIDT measurement method, which is well suited to measure ...



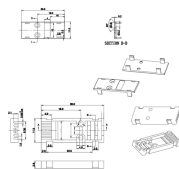
Use the fingerprint region of the IR spectrum and a library of known spectra to positively identify a coating. This is useful when trying to match a coating or identify counterfeit products.



Discover the VR-XAU EDXRF coating thickness and alloy composition analyzer for precise, non-destructive analysis of coatings and precious metals in industrial and jewelry applications.



Bring the power of mid-infrared spectroscopy directly to your coating line. NLIR's real-time MIR spectroscopy solution delivers continuous transmission measurements in the 2.0 - 5.0  $\mu\text{m}$  range - ...



Designed for fully automated spectral analysis of transmission and absolute reflectance, PHOTON RT supports advanced qualification of coated optics — flats, prisms, gratings, and complex optical ...



The ARL QUANT'X EDXRF spectrometer used for this application is a compact benchtop analyzer with a spacious sample chamber allowing the analysis of larger and irregular samples.

## Contact Us

For more information, pricing, or custom network solutions, please contact us:

Website: <https://www.hashherbcafe.co.za>

Email: [hello@hashherbcafe.co.za](mailto:hello@hashherbcafe.co.za)

Phone: +27 63 814 7295

Address: 15 Galaxy Road, Linbro Business Park, Johannesburg, 2065, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

