EDINBURGH ANALYTICAL

alontia



NEXT GENERATION
UV-VIS ANALYSIS

INTRODUCING TWO NEW DB30 NANOCUVETTE™ PACKAGES

Advance your DB30 UV-Vis system to use nanophotonic cuvettes and smart analytics. Using the new packages, directly measure particle size and refractive index, going beyond traditional spectroscopy.

DB30 NanoSize
Measure particle size

DB30 NanoIndex
Measure refractive index

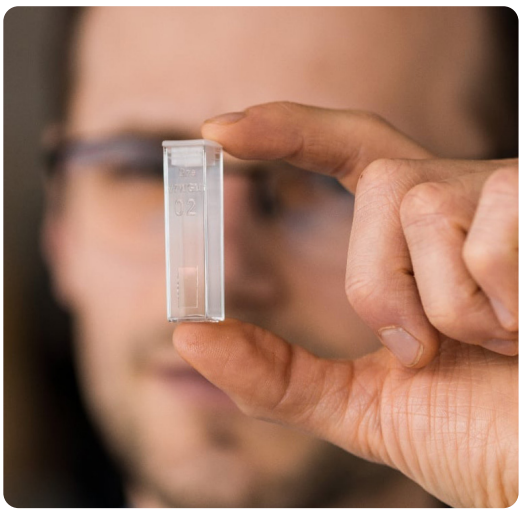




www.edinburghanalytical.com

PACKAGE OVERVIEW

	DB30 NANOSIZE	DB30 NANOINDEX
DB30 UV-Vis Spectrophotometer	•	•
SpectroLink™	•	•
NanoCuvette™ One		•
NanoCuvette™ S	•	
SpectroWorks™ Cloud Platform	•	•



DB30 UV-VIS SPECTROPHOTOMETER

Performance Meets Flexibility

The DB30 is designed for laboratories demanding both **high resolution** and **unmatched analytical versatility**.



KEY BENEFITS

> **Variable spectral bandwidth**
Enables optimisation for high resolution measurements or maximum light throughput, depending on application needs.

> **Very fast scan rates up to 6,000 nm/min**
Ideal for rapid measurements, kinetics studies, and high productivity environments.

> **Excellent optical stability and sensitivity**
Supports advanced chemometric and machine learning workflows.

WHY CHOOSE **THIS INTEGRATED SOLUTION?**

- Measurements beyond conventional UV-Vis
- Reduced sample volume and preparation
- Faster analysis with high data quality
- Future ready platform with AI and cloud connectivity
- Backed by a partnership between two technology leaders



DB30 NanoIndex

Powered by NanoCuvette™ One for Refractive Index Analysis, Trace Volume and Extended Linear Range Measurements

NanoCuvette™ One introduces a photonic nanocrystal, enabling analyses beyond the capabilities of traditional 10 mm cuvettes.

KEY APPLICATIONS



> **Micro-volume sample analysis**
Accurate UV-Vis analysis using only microlitres of sample.

> **Wide linear range protein quantification**
Reduces or eliminates dilution steps while maintaining accuracy.

> **Sugar measurement**
Enables rapid, reliable sugar analysis with enhanced sensitivity.

ADDITIONAL ANALYSIS

> Chemical & Solvent Analysis - Rapid profiling of liquid mixtures and purity

> High-Concentration API Testing – Direct measurement of active ingredients without extensive pre-dilution

> Quality Control Liquid Profiling – Fast, repeatable verification for industrial or food/beverage formulations

SPECTROLINK™ & SPECTROWORKS™ CLOUD ENABLED INTELLIGENCE

From Measurement to Insight

The SpectroLink™ ecosystem transforms UV-Vis from a standalone instrument into a connected analytical platform.

KEY ADVANTAGES

> **Cloud based data management**

> **Machine learning modelling** for advanced data interpretation

> **Custom application development** tailored to specific workflows

> **Seamless integration** across DB30 and NanoCuvette™ technologies

> **Python/AI with one click** transforms the system from a closed analytical tool into an extensible platform for data scientists in industry





DB30 NanoSize

Measure Particle Size Directly from UV-Vis – Powered by NanoCuvette™ S



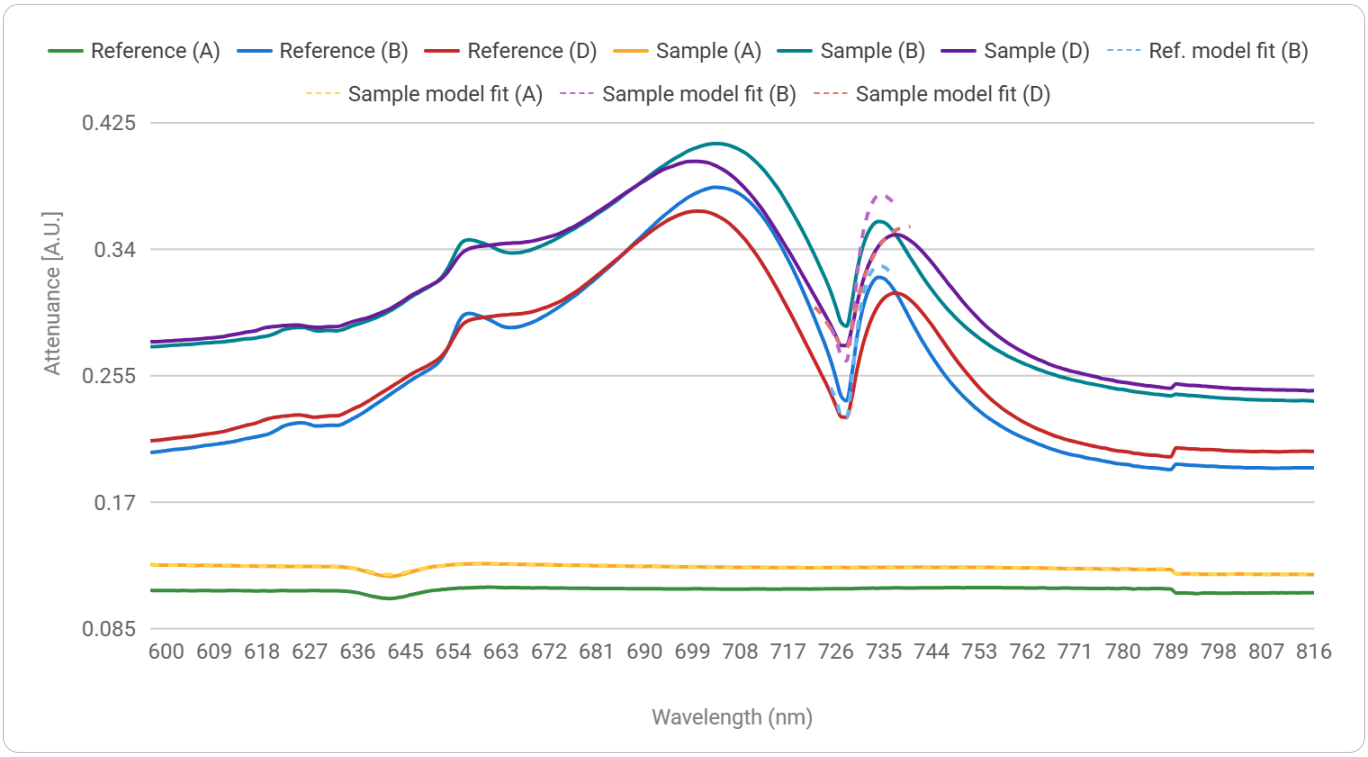
NanoCuvette™ S enables particle size-related measurements directly from UV-Vis spectra – not possible with conventional UV-Vis cuvettes.

KEY CAPABILITIES

> Particle size estimation for nanoparticles and colloidal systems

> Ideal for nanomaterials, formulation development, and quality control

> No need for separate particle sizing instrumentation in many workflows



Particle size analysis with the DB30 NanoSize Package. The particle size is calculated from the spectral features in the absorption spectrum.

EXCELLENCE IN SPECTROSCOPY

PRECISION IN EVERY MEASUREMENT

EDINBURGH ANALYTICAL

Edinburgh Analytical provides cutting-edge solutions and support for general and analytical laboratories while maintaining the core values and culture of excellence that define Edinburgh Instruments.

ALONTIA

Edinburgh Analytical and Alontia have formed a strategic technology partnership to deliver a fully integrated UV-Vis spectroscopy ecosystem. By combining precision optical engineering with nanophotonic technology and cloud based intelligence, this joint solution enables measurements and insights that are not achievable with conventional UV-Vis systems.





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STG08 / 09.2026