



ANALYTICAL INSTRUMENTS / UV-VIS

# DOUBLE-BEAM UV-VIS SPECTROPHOTOMETER

Stable sample-reference analysis across UV and visible range

A proposed double-beam UV-Vis spectrophotometer for absorbance, transmittance, concentration, spectral scanning and kinetic analysis in research and quality-control laboratories.



OPTICAL SYSTEM

Double beam

WAVELENGTH

190-1100 nm

BANDWIDTH

Approx. 1-2 nm

PROPOSED MODEL

ALC-UV1900

CATALOGUE NUMBER

ALC-AN-UVV-1900

PROPOSED SPECIFICATION SET

Final values, accessories, warranty and compliance require approval against the selected OEM datasheet.



## PRODUCT OVERVIEW

## Stable sample-reference analysis across UV and visible ranges.

The ALC-UV1900 is intended for quantitative and spectral UV-visible analysis using separate sample and reference optical paths. Automatic wavelength control, baseline correction and multiple measurement modes support pharmaceutical, chemical, environmental and academic workflows. Final photometric performance requires model-specific verification.



## OPTICAL SYSTEM

Double beam

## WAVELENGTH

190-1100 nm

## BANDWIDTH

Approx. 1-2 nm

### Key Features

- Double-beam optical configuration
- Full ultraviolet and visible wavelength range
- Automatic wavelength setting and baseline correction
- Photometric and spectral-scanning modes
- Quantitative concentration analysis
- Kinetic and time-scan modes
- Multi-wavelength analysis
- Colour display, USB and optional PC software

### Working Principle

Light from the selected source is dispersed by a monochromator and directed through sample and reference paths. The detector compares transmitted intensity to determine absorbance or transmittance as a function of wavelength.

#### TYPICAL APPLICATIONS

Pharmaceutical analysis / Chemical analysis / Water and environmental testing / Food and beverage testing / DNA and protein measurement / Academic research and teaching



## PROPOSED TECHNICAL DATA

## Model-specific values require OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Optical system	Double beam
Wavelength range	190-1100 nm
Spectral bandwidth	Approximately 1.0-2.0 nm
Wavelength accuracy	+/-0.3 nm or better
Wavelength repeatability	<=0.1 nm
Photometric range	Approximately -0.3 to 3.0 Abs
Photometric accuracy	Approximately +/-0.3% T
Stray light	Model-dependent; preferably <=0.05% T
Light source	Deuterium and tungsten-halogen or xenon
Detector	Silicon photodiode
Display	Colour LCD or touchscreen
Cell holder	Standard 10 mm cuvette holder
Data connection	USB and PC interface
Modes	Abs, %T, concentration, spectrum, kinetics, multi-wavelength
Power supply	220-240 V AC, 50 Hz

## STANDARD SUPPLY

- Spectrophotometer
- Glass and quartz cuvettes
- Power cable and dust cover
- Software/cable where included
- Operation manual

## OPTIONAL / MODEL-DEPENDENT

- Multi-cell holder
- Temperature-controlled holder
- Sipper system
- Printer
- PC and analysis software
- Validation software

## TO BE CONFIRMED

- Exact optical configuration and bandwidth
- Stray light and photometric performance
- Software and accessory inclusion
- Warranty and validation documents



## LABORATORY APPLICATIONS

# A practical platform for professional laboratory workflows.

## Applications

- Pharmaceutical analysis
- Chemical analysis
- Water and environmental testing
- Food and beverage testing
- DNA and protein measurement
- Academic research and teaching

## Product Advantages

- Stable sample-reference measurement
- Broad analytical mode selection
- Automatic baseline correction
- Standard cuvette compatibility
- PC and accessory expansion options

## INDUSTRIES SERVED

Pharmaceutical laboratories / Chemical and environmental testing / Food and beverage laboratories / Academic and research institutions

## SCAN TO VIEW PRODUCT



## Request a model-specific quotation.

Share your application, required capacity or range, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved datasheet and quotation.

## ALC-SCIENTIFIC LABORATORY SYSTEMS

OEM / PRIVATE LABEL AVAILABLE

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Product images are for reference and may vary by configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those in the approved technical datasheet and commercial quotation. Standard warranty: To be confirmed according to the selected product and approved commercial quotation.