

NOVEL900

UV/Vis scanning spectrophotometer · double beam · 190–1100 nm

The **NOVEL900 dual-beam UV/Vis scanning spectrophotometer** combines a new optical platform, adjustable spectral bandwidth, touch-screen operation, and multi-mode analytical functions for routine quality control, laboratory analysis, and research workflows across chemistry, biochemistry, environmental monitoring, pharmaceuticals, and petrochemical applications.

DOUBLE BEAM

190–1100 NM

0.5 / 1 / 2 / 4 / 5 NM

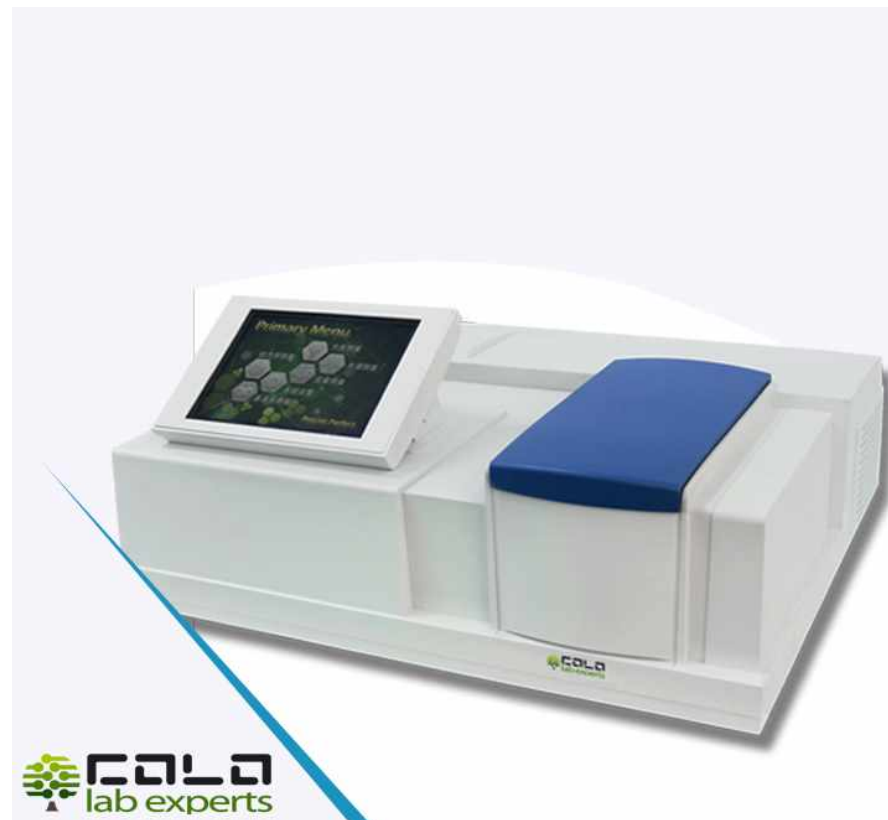
10.1" TOUCH SCREEN

USB / RS232

UV LAMP CONTROL OPTION

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NOVEL900 · UV/Vis scanning spectrophotometer

INSTRUMENT

NOVEL900 · COLO.Science

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SI-3255, Slovenia

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NOVEL900 · UV/Vis scanning spectrophotometer

technical specification sheet

DOUBLE BEAM

1600 LINES/MM

190–1100 NM

<0.3 NM ACCURACY

PHOTOMETRIC / QUANTITATIVE / KINETICS

— Multi-function UV/Vis platform for laboratory analysis and quality control

General & optical specifications

Instrument identity	
model	NOVEL900
instrument type	UV/Vis scanning spectrophotometer
optical system	Proportional dual beam, optical grating 1600 lines/mm
monochromator	Czerny-Turner
focal length	200 mm
Wavelength performance	
wavelength range	190–1100 nm
spectral bandwidth	0.5 nm, 1 nm, 2 nm, 4 nm, 5 nm
wavelength resolution	<1 nm
wavelength accuracy	<0.3 nm
wavelength repeatability	<0.1 nm
wavelength setting	Automatic
scan speed	Fast, medium, and slow; 1 nm increments
Display & connectivity	
display	10.1" TFT color capacitive touch screen
communication	USB / RS232
power	AC220V ±22V, 50Hz ±1Hz, 200W
instrument size	590 × 475 × 250 mm

Photometric performance, functions & configuration

Photometric performance

photometric accuracy	<0.2%T (0–100%T), ±0.002A (0–0.5A), ±0.004A (0.5–1A)
photometric repeatability	<0.1%T (0–100%T), 0.001A (0–0.5A), 0.002A (0.5–1A)
photometric range	0–200%T, ±3A
stray light	≤0.01%T at 360 nm (NaNO ₂)
stability	≤ ±0.0003A/h at 500 nm
baseline flatness	±0.001A
noise	±0.0005A at 500 nm
baseline straightness	≤ ±0.0008A (200–1090 nm)
baseline drift	0.0003 A/h at 250 nm and 500 nm after 2 h warm-up

Work modes & analytical functions

work mode: T, A, C, E multi-function measurement

main functions: photometric measurement, quantitative analysis, spectral scanning, kinetics, and DNA/protein workflows

data processing: automatic scanning spectrum, multi-wavelength determination, curve fitting, derivative spectrum, and print access for spectra and analysis data

Light source, software & holders

light source: pre-aligned D2 lamp and tungsten-halogen lamp with automatic switchover

screen & control: touch-screen user interface with help menu for parameter access and operation shortcuts

software: professional NOVEL900 software as standard; UVwin8 UV spectroscopy software optional

standard holder: 1 cm cuvette holder

cell handling: manual or automatic cell holder options, from micro cell to macro cell up to 100 mm; 4-place or 8-place configurations

wireless option: optional separate UV lamp control via android device / touch screen and optional 10.1-inch tablet-based wireless control

Standard configuration

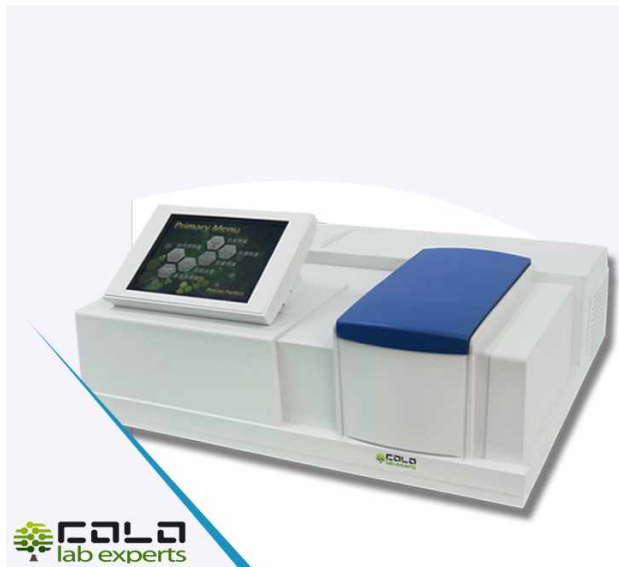
Spectrophotometer with Euro plug power cable

4 pcs glass cuvette

2 pcs quartz cuvette

Instruction manual

Applications, visual reference & optional accessories



NOVEL900 analyzer · double-beam UV/Vis spectrophotometer

Typical application fields

- Drug inspection and pharmaceutical quality control
- Medicine and health laboratories
- Biochemistry and life-science routine analysis
- Environmental monitoring and water analysis
- Commodity inspection workflows
- Petrochemical laboratories and technical identification
- Scientific research institutes

Applications & laboratory use

application field	application description
quality control laboratories	Supports routine UV/Vis measurement, absorbance/transmittance workflows, and day-to-day analytical verification tasks.
pharmaceutical / healthcare	Suitable for drug inspection, medicine, and health laboratory environments requiring reliable UV/Vis testing and documented results.
biochemistry / research	Supports scanning, kinetics, quantitative and multi-wavelength methods used in research and educational settings.
environmental / industrial	Applicable to environmental monitoring, commodity inspection, and petrochemical laboratory use.

Optional accessories

- Flow cell
- Peltier / sipper system
- Tube rack
- Adjustable XY micro cell holder
- Integrating sphere

Additional holders

- Manual 4-position film holder
- Single hole film holder
- Manual 4-cell holder up to 100 mm
- Single hole cell holder – 10 mm
- Auto 8-cell holder

Operational highlights, practical notes & next step

Operational highlights

optical performance	Designed around a new optical platform for low stray light, low noise, and strong photometric stability.
light source handling	Automatic lamp switching and search for the best lamp position support safe and convenient operation.
method flexibility	Combines routine photometric work with scanning, multi-wavelength, kinetics, and derivative spectrum processing.
holder flexibility	Supports a broad range of manual and automatic holders for different sample formats and path lengths.

Practical notes

configuration note	Final software package, cell holder setup, and optional accessories should be confirmed in quotation stage.
application note	If standard configuration does not fully match the target method, additional technical solutions and accessories may be defined.
document note	This sheet is based on the supplied NOVEL900 brochure/ specification material and adapted into COLO.Science print format.

INSTRUMENT

NOVEL900 UV/Vis spectrophotometer

METHOD

Double-beam UV/Vis analysis

RANGE

190–1100 nm

OUTPUT

USB / RS232

HEADQUARTERS ADDRESS

**Polje ob Sotli 4
SI-3255, Slovenia**

Tell us your sample type, preferred holder setup, spectral bandwidth needs, and software preferences.

QUICK CONTACT

**Web: colo.si
Email: sales@colo.si
Phone: +386 70 713 437
Knowledge hub: COLO.Science**

COLO.SCIENCE · NEXT STEP

Explore COLO.si, continue with COLO.Science, or request a quotation

Use this technical specification as a reference document, then continue to the COLO website, request a quotation for the NOVEL900 configuration, or explore application guidance and laboratory knowledge resources.

Explore COLO.si

Visit COLO.Science

Request a Quote

Web: colo.si | Knowledge hub: [COLO.Science](https://colo.science) | RFQ page: colo.si/contacts/

Manufacturer & configuration notice (important):

Specifications in this document are provided for general reference and may represent a typical configuration. Optional functions and accessories should be confirmed against the final quotation and intended analytical workflow. For procurement and tender purposes, the only valid and binding specification is the official COLO quotation and the accompanying engineering-approved document.