



Nanocolour Vario3
Heating block for sample digestion



Nanocolour UV/VIS spectrophotometer



Nanocolour Vario compact
Heating block for sample digestion

Features:

- More than 100 pre-programmed tests with over 200 analysis programmes
- Automatic cuvette recognition
- Automatic method selection
- USB 1.1 & bi-directional RS232 interface for data transfer/update
- 500 Data set storage according to GLP
- Measurement without cuvette slot cover
- User friendly touch screen with colour display
- Nephelometric and 180deg transmittance methods for turbidity
- High resolution scans recorded & displayed

Benefits:

- Fast, easy menu guided operation
- Future Proof – Software updates downloadable from internet
- Minimal training requirement
- Easy data transfer to Excel or equivalent
- Direct print out facility
- No cuvette adapter required
- Easy internal QC using “Nanocheck”
- Software for data & spectrum processing included
- Multiwavelength measurement & kinetics calculated

Applications:

- Process performance audit
- On line instrument check and/or calibration
- Municipal & Industrial Effluent monitoring
- Environmental monitoring
- Industrial process stream monitoring
- Potable water monitoring
- Cooling water analysis
- Boiler water analysis
- Food & beverage Q/A control, including UV absorption techniques for brewing processes



Nanocolour tube test kits

LabSys-UV/Vis NANOCOLOR®, with reference detector technology (RTD), from MACHEREY-NAGEL, is a powerful UV/VIS spectrophotometer with monochromator (190 – 1100 nm) for universal use in all areas of water and waste water analysis. This includes municipal and industrial waste water, drinking water (including Chlorophyll detection), process water, surface water, ground water as well as cooling and boiler feed water. The NANOCOLOR® UV / VIS is also the ideal test unit for quality control in various fields of industry, such as food and beverage industries. Absorption spectra, multiwavelength measurements, kinetics, turbidity and standard colourimetric measurements are all performed, displayed and logged in the UV/VIS unit.



Technical Data

| | |
|---------------------------------|---|
| Type: | UV/VIS Spectrophotometer with reference detector technology (RDT) |
| Light sources: | Halogen lamp (visible range) and deuterium lamp (UV range) |
| Optical System: | Monochromator |
| Wavelength range: | 190 – 1100 nm |
| Wavelength accuracy: | +/- 1 nm |
| Wavelength resolution: | 0.3 nm (190 – 1100 nm) |
| Wave length calibration: | Automatic |
| Wavelength selection: | Automatic (barcode), manual |
| Scan speed: | 900 nm or 1 complete scan in less than 1 min |
| Spectral Bandwidth: | < 4 nm |
| Photometric range: | ± 3.0 E in wavelength range 200 – 900 nm |
| Photometric accuracy: | 0.005 E at 0.0-0.5 E; 1% at 0.5-2.0 E |
| Photometric linearity: | < 0.5% at 2 E; < 1% at > 2 E |
| Stray light: | < 0.05% |
| Measuring mode: | More than 100 pre-programmed tests, 100 optionally programmable methods, absorbance, transmission, factor, kinetics, 2-point calibration, scan, nephelometric turbidity measurement |
| Cuvette holder: | Round tubes 14 mm ID, rectangular cuvettes 10, 20, 50 mm |
| Data memory: | 500 results, GLP conform |
| Display: | Coloured backlit LCD touch screen |
| Operation: | Barcode technology, display user guidance, touch screen |
| External light: | Insensitive, open cuvette slot |
| Interfaces: | USB and bi-directional serial RS 232 |
| Update: | Via Internet/PC; free of charge |
| Operating range: | 10 – 40 °C, max. 80% relative humidity (without condensation) |
| Power supply: | 110 – 240 V, ~50/60 Hz, 60 VA |
| Dimension: | L / W / H 390 / 285 / 155 mm Weight 6.5 kg |
| Weight: | 6.5Kg |
| Warranty: | 2 years |
| Compliance: | This instrument conforms to the following directives: – 73/23/EEC of 19.02.1973 – Low Voltage Directive – 89/336/EEC of 03.05.1989 (including amendment directive 92/31/EEC) – EMV-Directive |

Ordering Information

| Description | Pack of | Cat. No. |
|--|---------|----------|
| Spectrophotometer | | |
| Spectrophotometer NANOCOLOR[®] UV/VIS incl. software CD, quick reference guide, manual, protective covering, power cable, USB cable, serial cable, calibration cuvette and certificate | 1 set | 919 100 |
| Accessories | | |
| Manual NANOCOLOR[®] UV/VIS | 1 | 919 101 |
| Quarz glass cuvette, 10 mm optical path | 1 | 919 120 |
| Quarz glass cuvette, 50 mm optical path | 1 | 919 121 |
| Protective covering for NANOCOLOR[®] UV/VIS | 1 | 919 105 |
| Lamps | | |
| Halogen lamp for NANOCOLOR[®] UV/VIS | 1 | 919 104 |
| Deuterium lamp for NANOCOLOR[®] UV/VIS | 1 | 919 103 |
| Software | | |
| NANOCOLOR[®] UV/VIS software | 1 CD | 919 102 |

Please consult our sales staff and/or website to determine which analysis kits you require and/or ancillaries

Supplied by: Envitech Ltd. Unit 20, Lambourne Crescent, Cardiff Business Park, Llanishen, Cardiff CF14 5GF

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