



Visible & UV-Visible Spectrophotometer



All prices are ex works and VAT. Terms and conditions apply.

Chemical Systems Control, 116 Ashbourne Ind. Est., Ashbourne, Co. Meath, Ireland
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Model SPECTRO S02

- Manual Visible Spectrophotometer
- Wavelength range: 360 - 1000 nm
- Wavelength accuracy: ± 4 nm
- Wavelength repeatability: 2 nm
- Bandwidth: 10 nm
- Units displayed: (T): 0 ~ 100% / (A): 0 ~ 1.99
- Photometric accuracy: $\pm 3\%$ T
- Stray light: $\leq 1\%$ T (400 nm)
- Light source: halogen lamp 10W
- Sensor: high sensitive silicon photodiode

Model S02 Visible manual Spectrophotometer is a compact, accurate, versatile and easy-to-use instrument for spectrophotometer. It can be used to perform determination of transmittance and absorbance direct-reading within the wave length range of 360-1000 nm. The instrument is widely applicable in medicine, clinical testing, biological chemistry, petro chemistry, environmental protection monitoring and quality control departments for qualitative and quantitative determinations. The instrument has the following features:

- 4 digits LCD display
- Littrow single-beam monochromator with 1200 l/mm diffraction grating
- Sample compartment for both round test tubes and square cuvettes (with adapter)
- Automatic adjusting 100%T

Basic equipments: main body, User manual, Dust cover, Cuvettes 10mm (glass), cuvette adapter, cuvette 0%T

Model SPECTRO S05

- Manual Visible Spectrophotometer
- Wavelength range: 340 - 1000 nm
- Wavelength accuracy: ± 2 nm
- Wavelength repeatability: 1 nm
- Bandwidth: 6 nm
- Units displayed:
- (T): 0 ~ 100,0% / (A): 0 ~ 1.99 / (C): 0 ~ 1999 / [F]: 0 ~ 1000
- Photometric accuracy: $\pm 1\%$ T
- Stray light: $\leq 1\%$ T (360 nm, NaNO_2)
- Sensor: high sensitive silicon photodiode

Model S05 Visible manual spectrophotometer is a compact, neat, versatile and easy-to-use instrument for spectrophotometer. It can be used to perform determination of transmittance, absorbance and concentration direct-reading within the wavelength range of 340-1000 nm. The instrument is widely applicable in medicine, clinical testing, biological chemistry, petro chemistry, environmental protection monitoring and quality control departments for qualitative and quantitative determinations. The instrument has the following features:

- 4 digit LED display
- Littrow single-beam monochromator with 1200 l/mm diffraction grating
- Large sample compartment with 4-position cuvette rack and optional 1-5cm optical length rectangular cuvettes
- Automatic adjusting 0% T and 100% T
- Concentration direct reading function
- RS-232C serial port for PC or printer connection

Basic equipments: main body, User manual, Dust cover, Cuvette 10mm (glass), 4-position cuvette holder

Optional accessories and spare parts: 10mm single-cell or round test tube holder, V-type round test tube holder for 1 - 2.5cm diameter tubes, Water jacked flow-cell holder, 5cm light path cuvette holder, RS-232C serial cable, serial printer

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Model SPECTRO L22PC

- Manual Visible Spectrophotometer
- Wavelength range: 340 - 1000 nm
- Wavelength accuracy: ± 2 nm
- Wavelength repeatability: 1 nm
- Bandwidth: 6 nm
- Photometric accuracy: $\pm 0,5\%$ T (SRM930D)
- Photometric repeatability: 0.3% T
- Transmittance accuracy: $\pm 0.5\%$ T
- Units displayed:
- (T): 0.0 ~ 199.9% / (A): -0.3 ~ 2.999 / (F): 1 ~ 9999 / (C): 0 ~ 9999
- Stray light: $\leq 0.2\%$ T (360 nm, NaNO₂)
- Light source: halogen lamp 20W
- Sensor: high sensitive silicon photodiode



Model L22PC is a visible manual spectrophotometer compact and easy to use. It can be used to perform determination of transmittance, absorbance and concentration direct-reading within the wavelength range 340-2000 nm. The instrument is suitable for many applications, like clinical testing, water analysis, medicine, environment monitoring, pharmacology, quality control and petro chemistry for qualitative and quantitative determinations. The built-in standard RS232-C interface can be linked up with PC. The instrument has the following features:

- 4 digit LED display
- Aspherical light source optics and Czerny-Turner grating monochromator
- Large sample compartment with 4 position cuvette rack and optional 1-5cm optical length rectangular cuvette
- Automatic 0%T and 100%T adjusting
- Concentration factor setting and concentration direct reading functions
- RS-232C serial port for PC or printer connection
- Power supply: 220 V/110 V $\pm 10\%$; 50/60 Hz / Dimensions: 370x320x190 mm / Weight: net 7 Kg (gross 9.5 Kg)

Basic equipments: Main body, User manual, Fuse (2A), Rectangular cuvette 1 cm (glass) 2 boxes (4 pieces), 4-position cuvette-holder 10mm optical length
Optional accessories and spare parts: Fuse (2A/3A), Light source lamp with pre-aligned lamp holder, rectangular cuvettes 1cm, 2cm, 3cm, 5cm (glass), 5cm light path cuvette rack, RS-232C serial cable, Parallel printer with cable

Model SPECTRO L725

- Manual Visible Spectrophotometer
- Wavelength range: 340 - 1000 nm
- Wavelength accuracy: ± 2 nm
- Wavelength repeatability: 0.5 nm
- Bandwidth: 4 nm
- Transmittance accuracy: $\pm 0,5\%$ T (NBS SRM930D)
- Transmittance repeatability: 0.3% T
- Units displayed: (T): 0.0 ~ 199.9% / (A): -0.3 ~ 2.999 / (F): 1 ~ 9999 / (C): 0 ~ 9999
- Stray light: $\leq 0.5\%$ T (360 nm, NaNO₂)
- Light source: halogen lamp 20W
- Sensor: high sensitive silicon photodiode



Model L725 Visible manual spectrophotometer is a versatile, compact and easy to use instrument for spectrophotometry. It can be used in the fields of physics, chemistry, medicine, biology and pharmacology to perform determination of transmittance, absorbance and concentration direct-reading within the wavelength range 340-1000 nm. The instrument is widely applicable for qualitative and quantitative analysis of a variety of materials in the laboratories of chemical, food, pharmaceutical, metallurgical industries, clinical biochemical and environmental protection departments. The instrument has the following features:

- 128x64 back illuminated wide screen LCD display
- RS-232C serial port for PC or printer connection
- Non-spherical light source optical path and CT grating monochromator
- Large sample compartment with 4 position cuvette rack and optional 1-5 cm optical length rectangular cuvettes
- Automatic adjusting 0%T and 100%T
- Concentration factor setting and concentration direct reading functions
- Up to 24 files of working curve equations can be stored in the instrument permanent memory

Basic equipments: Main body, User manual, Fuse (2A), Rectangular cuvette 1 cm (glass) 2 boxes (4 pieces), 1 optical path cuvette rack. Optional accessories and spare parts: Fuse (2A/3A), Light source lamp with pre-aligned lamp holder, rectangular cuvettes 1cm, 2cm, 3cm, 5cm (glass), 5cm light path cuvette rack, RS-232C serial cable, Serial printer, Praseodymium-Neodymium optical filter, Holmium oxide optical filter

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Model SPECTRO LGS53

- Automatic UV – Visible Spectrophotometer
- Wavelength range: 200 - 1000 nm
- Wavelength accuracy: ± 2 nm
- Wavelength ripetibility: 0.5 nm
- Bandwidth: 4 nm
- Transmittance accuracy: $\pm 0,5\%$ T (NBS SRM930D)
- Transmittance ripetibility: 0.3% T
- Units displayed:
- (T): 0.0 ~ 199.9% / (A): -0.3 ~ 2.999 / (F): 1 ~ 9999/ (C): 0 ~ 9999
- Stray light: $\leq 0.2\%$ T (360 nm, NaNO₂)
- Noise: $\pm 0.5\%$ T
- Light source: halogen lamp 20W, Deuterium lamp 300mA



Model LGS53 UV-Visible automatic spectrophotometer is a smart, compact and accurate instrument working within the wavelength range of 200-1000nm. It can be used for transmittance, absorbance and direct concentration readout measurements. The instrument can execute wavelength scanning, time scanning and other high-level functions. This spectrophotometer is suitable for biochemistry, petrol, chemical engineering, food industry, environmental monitoring and inspections, pharmacology, medicine, clinical inspections and research laboratories for quantitative and qualitative analysis. The instrument's main features are the following:

- 4 digit LED display, directly linkable with jet printer
- Aspherical light source optical path and CT grating monochromator
- Large sample compartment with 4 position cuvette rack and optional 1-5 cm optical length rectangular cuvettes and 1 cm sealed crystal cuvette
- Automatic adjusting 0%T and 100%T, initiating wavelength auto correction
- Concentration factor setting and concentration direct reading functions
- RS-232C serial and parallel interfaces
- PC qualitative and quantitative software package, expanding time and wavelength scanning, peak-valley detection, 2 wavelength quantification, 1st~3rd order curve fitting, linear regression, 1st~4th order differential spectrum operation, spectrogram access and comparison functions
- Power supply: 220 V/110 V $\pm 10\%$; 50/60 Hz / Dimensions: 370x440x220 mm / Weight: net 10 Kg (gross 12.5 Kg)

Basic equipments: Main body, user manual, Fuse (2A), rectangular cuvette 1 cm (crystal) 1 box (2 pieces), rectangular cuvette 1 cm (glass) 2 boxes (4 pieces), 4-position cuvette-holder, PC Software package. Optional accessories and spare parts: Fuse (2A/3A), Light source lamp with pre-aligned lamp holder, rectangular cuvettes 1cm, 2cm, 3cm, 5cm (glass), 5cm light path cuvette rack, Cable for serial port RS-232C, Jet printer, printer cable

Each BEL spectrophotometer is calibrated singularly with Hellma Holmium oxide and Neutral glass calibration standards and with Starna Potassium Dichromate standards; calibration curves are included (on demand for non automatic spectrophotometer).

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