





technological leader in spectroscopy since 1952

After introducing in 1958 the world's first UV-Vis spectrophotometer with grating monochromator, SAFAS is proud to introduce its new EASYSPEC: reliable, easy to use and with high performance... at competitive price.



The EBERT mount near UV-Visible spectrophotometer.

Accurate and linear on certified standards, rugged in all hands, it features amazing stability of 0.0001A*, with a photometric range up to 3.5A, a built-in validation Holmium filter, low straylight and a source which is nearly eternal

SAFAS QUALITY AT THE PRICE OF A SIMPLE SPECTROPHOMETER

nevertheless, Easyspec has been fitted with whether patented or not.

Thanks EBERT to their instrument.

EBERT mount monochromators are This point is very important: a straylight of 1% Dark current compensation is essential to usually reserved to high level instruments; involves a 5% error at 1 A (as much as 0.050 A!), accuracy; it is full automatic on Easyspec. and this error dramatically increases at higher To associate high accuracy and low sealed quality optics and mechanics, Absorbances... On the contrary, Easyspec will just maintenance instead of the cheap monochromators provide 0.2% error (only 0.002 A) in the same compensation is achieved by a shutter, generally used on equivalent instruments, conditions. At the ASTM test wavelength (340nm), not by a chopper; in this way, Easyspec straylight is <0.05%; but the same result corresponding 50% loss of energy is mount could be obtained on a poor-optics instrument which avoided, and a wearing part is eliminated. monochromators, to quality optics on would insert an additional filter at 340nm! Because metallic holders (no plastic!), Easyspec you are not working only at 340nm, Easyspec also series provide a very low straylight on guarantees a straylight < 0.5% from 320 to the whole wavelength range of the 1100nm, where instruments fitted with cheap optics may involve huge errors.

costs, dark

An universal cuvette and tube holder is supplied standard, for cuvettes of 5, 10 and 50mm of O.P., and tubes of 13 or 25mm of diameter.

THE END OF THE NIGHTMARE OF SOURCE REPLACEMENT

Many spectrophotometer users complain about high ownership costs due to frequently replaced sources, which sometimes may represent the cost of the spectrophotometer itself after several years of use. And overall, they complain about the inconvenience due to sources failing just during important measurements, and for which a spare one has not always been purchased in advance. On the contrary, Easyspec series is fitted standard with a VERY long life source, which you typically will not have to replace for several years of standard use... The source is anyway easy to replace, and an easy-alignement utility is supplied in the instrument.



On both versions, a built-in Holmium filter enables to Validate the wavelengths at any moment; such a standard is expensive when purchased separately, and it cannot be broken or lost when it is built-in. You will be sure to keep an excellent accuracy and linearity of wavelengths, day after day, year after year, with an amazing stability and reproducibility of your measurements. An exceptional cost effectiveness for a very serious instrument, ideally fitting medical, industrial, environmental & research applications, as well as educational purposes thanks to its reliability, low ownership costs and robustness even in hard environments or in pupils hands.

MULTI-LANGUAGE and EASY-TO-USE SOFTWARE



*WITHOUT PC COMPUTER: the colored large 22-keys sealed alphanumeric color keyboard and the very large backlit sealed LCD display provides great ease-of-use, turning spectroscopy to a child's play, with plenty of intuitive functions, concentrations with simple factor or calibration curve (up to 10 standards), kinetics with autocalculation of end-point, and user-selectable language. Two display modes are available: ZOOM mode (very big digits, very useful to train groups of persons or follow up measurements at distance), and SIMULTANEOUS DISPLAY mode (Abs-%T-Conc-Wavelength-Energy). A complete test and maintenance menu is included, for automatic or manual validation.

*WITH PC COMPUTER: for more sophisticated operations, our spectroscopy software SAFAS SP2000 for PC computer (via USB) is compatible with Windows 7, 8.1 or 10 as well as with touchscreens. It provides superb versatility and is very easy to use, with unlimited storage in libraries, multizoom, multicurve, auto baseline subtraction, multiple-window operation, and linear or non-linear regression. As Easyspec instruments are designed for a very long term use, the software updates are supplied free of charge for instrument's life.

MAIN SPECIFICATIONS

WAVELENGTHS: range from 320 to 1100nm, Accuracy±1nm, Repeatability ±0.15 nm BANDWIDTH : 5nm (±2.5nm)

STRAYLIGHT < 0.05% at 340nm (ASTM) AND OVERALL < 0.5% from 320 to 1100 nm

Auto-zero of Abs and 100%T - Automatic dark current compensation, chopper-free (no wearing parts!) - Measurement Units: Abs, %T and Concentration - Photometric accuracy ±1% at 1 A - Measurement range: -0.2 to 3.5 A and 0 to 150%T - Photometric stability 0.0001A at 0A - INPUT/OUTPUT: USB Com port (standard), parallel printer port (optional), analog output 0-1 Volt (optional) - Built-in Holmium filter and source alignment utility are standard features. **UNIVERSAL CUVETTE HOLDER** is built-in standard for cuvettes of 5, 10 or 50mm O.P. and tubes of 13 and 25mm diameter. Many options: auto-sipper and pump, temperature control, software, printer, and possibility to develop on-purpose accessories on request. Mains: 115/230V 50/60Hz. Size: 400x300xh145 mm, weight 10Kg.

Instrument supplied ready-for-use and complete, including a QUALITY OPTICAL GLASS CUVETTE, 10 disposable Cuvettes, 6 borosilicate tubes of 13mm diameter, a validation standard HOLMIUM FILTER (built-in), dust-cover and universal tube-cuvette holder. Also supplied standard: memory for 30 methods with individual name, calibration curve on 10 standards, and kinetics.

FEEL FREE TO ASK US INFORMATIONS ABOUT OUR EXCLUSIVE TECHNOLOGY ENABLING TO MEASURE THE EMISSIVITY OF AN EXTERNAL SOURCE VIA FIBER OPTICS (SPECTROMETER / SPECTROSCOPE MODE)

N.B.: ±2.5nm notation for bandpass is a nonsense, but it is sometimes used. Photographs are not contractual. All features subject to change without notice. The instruments are delivered without computer and without serial cord. The software for PC computer is optional.



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