

Omega 20 Spectrophotometer



- Wavelength range UV-VIS-NIR
- Diverse Modules for Sample Presentation
- Optimal for Research and Development
- Internal Pentium-PC with Windows Software
- Remote control by DDE/DLL/OLE
- Automatic Wavelength Calibration, Base Line Correction and Dark Cycle Adjustment before each Measurement

Computer driven Double Beam Spectrophotometer with multiple Sampling Modules for Research and Development.

Wavelength range:	190 nm – 2700 nm
Principle:	Double beam scanning, predispersive
Increment:	UV-VIS: 0,1 / 0,2 / 0,5 / 1 nm NIR I: 0,2 / 0,4 / 1,0 / 2 nm NIR II: 0,4 / 0,8 / 2,0 / 4 nm
Scan time:	400 ms with 0,1 nm increment
Light source:	Halogen-, deuterium lamp
Monochromator:	Holographic grating "Czerny-Turner" with entrance & exit slit, f = 250 mm Linear Dispersion: UV/VIS: 3,2 nm/mm NIR I: 6,4 nm/mm NIR II: 12,8 nm/mm
Slit with:	Variable slit width from 0,1 till 4,0 mm, adjustable by software.
Stray light:	UV-VIS: 3×10^{-8} at 589 nm NIR: < 0,003 % at 1690 nm
Wavelength accuracy:	UV-VIS: better than 0,2 nm NIR I: better than 0,4 nm NIR II: better than 0,8 nm

Specifications (continued)

B.I. Analyzer

Wavelength repeatability:	0,01 nm
Total stray light:	< 0,01 % T at wavelength limits
Optical resolution:	UV-VIS: 0,1 nm
	NIR I: 0,2 nm
	NIR II: 0,4 nm
Photometric accuracy:	better than 0,1 % T
Drift:	less than 0,0002 % T
Noise:	0,0002 E
System dimensions:	340 x 590 x 250 mm, weight 35 kg
Voltage, power consumption:	220 V, 50 / 60Hz, 250 VA

Omega Software

The included Omega Software runs on Windows 98[®] from Microsoft.

- Double beam scanning
- Accumulation up to 9,999 spectra
- Kinetics
- Spectral display with Color Monitor
- Spectral display linear to Wavelength, Wavenumber or Energy (meV)
- Display as Extinction from 0 – 6 E, minimal increment 0,00001 E
- Display as Transmission 0 – 100 %, minimal increment 0,0001 % T
- Scope for x- and y-axes
- Cursor for x- and y-axes
- Output of spectra to matrix or laser printer or plotter
- Output of scheduled data to display, printer or ASCII file
- Archiving of data at hard disk or floppy
- Arithmetic functions
- Factor arithmetic
- Registers for 5 spectra
- Determination of extinction coefficients
- Derivatives (up till 9th derivative)
- Digital filter function
- Determination of bandwidth
- Area integral
- Color value calculation
- Remote control via DDE / DLE / OLE
- GRAMS/32[®] (optional for additional cost) can be linked directly with the Omega Software, offering extended capabilities.
- Quantitative Analysis (optional for additional cost).

Seller for Czech republic:

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