

OmegAnalyzer G

- Whole Grain and Seed Analyzer
- Interface: 2 USB, 1 Ethernet, 1 parallel
- Keyboard and mouse
- Spare lamp
- Built in Network interface for data exchange
- Quality management according to ISO 9000



PC controlled Near Infrared Transmission Analyzer for Analysis of ungrounded Cereals and Oil Seeds like Wheat, Barley, Corn, Soy Beans, Rape Seed etc

Technical Data:

Wavelength range:	730 nm - 1100 nm
Light source:	Halogen lamp
Detector:	Silicon
Sampling device:	whole grain flow cell
Operation:	Touch screen, optional keyboard and mouse
Dimensions:	580 x 400 x 470 mm, weight 40 kg

Software:

- ▶ OmegAnalyzer Software Package for routine use
- ▶ Microsoft Access database storage with network capabilities
- ▶ Use of PLS calibrations
- ▶ Every level in the Software can be protected by password
- ▶ Professional spectrometer Software OMEGA is built-in for diagnostics
- ▶ Remote control and diagnostics possible

Internal Pentium-PC with Windows 98® operating system and software for routine operation, developing and managing calibrations.

- ▶ Internal 10,4" LCD color display
- ▶ direct control via Touch Screen
- ▶ optional Keyboard and mouse
- ▶ optional internal printer
- ▶ Interface: 2 USB, 1 Ethernet, 1 serial, 1 parallel
- ▶ Network possibilities for data exchange
- ▶ Quality management according ISO 9000

Compare the Specifications

	<i>Competition</i>	<i>GrainCheck</i>
• Double Beam	☐ ??	✓ yes
• Changeable Pathlength	☐ ??	✓ yes
• Sub Sample measurement	☐ ??	✓ yes
• Wavelength Range > 300 nm	☐ ??	✓ yes
• Data Increment < 1 nm	☐ ??	✓ yes
• Optional Spectral Display	☐ ??	✓ yes
• Optional Data Pretreatment algorithms in routine analysis	☐ ??	✓ yes
• Results and Spectras stored in Database	☐ ??	✓ yes
• Remote Control possible	☐ ??	✓ yes
• 24 month warranty	☐ ??	✓ yes
• Preadjusted Lamp < 150 \$	☐ ??	✓ yes
• Working Expenses < 20 Cent/h	☐ ??	✓ yes

The Benefits

- ▶ A **Double Beam Measurement** with referencing at each sample compensates for environmental effects or the aging of lamps.
- ▶ Changeable Pathlength offers the optimal absorption range for each product
- ▶ **Sub samples** improve the measurement of inhomogeneous samples.
- ▶ The larger **Wavelength Range** improves the analyses of difficult ingredients.
- ▶ A higher resolution with smaller **Data Increment** assures discrimination of samples with very small differences.
- ▶ **Spectral Display** gives information about sample filling, homogeneity and constituents, even without fully developed calibrations.
- ▶ **Data Pretreatment**, e.g. scatter correction or derivatives, improves the accuracy of analyses.
- ▶ All results and spectra will be stored in an Access **Data Base**, which offers easy reporting, statistical evaluations and network capabilities.
- ▶ With **Remote Control** the system can be checked, maintained and updated via modem or network.
- ▶ The **Preadjusted Lamp** will be exchanged against the used one with a special discount. In combination with the lamp life time > 1500 h and the energy consumption < 200 W the **Working Expenses** are < 20 Cent/h.

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