Water Analysis



Simply flexible

The Photometer NANOCOLOR® 500 D

- · Backlit graphic display with user guidance
- USB interface for data transfer
- NANOCOLOR® barcode technology
- · Measurements without light shield and adaptor



NANOCOLOR® 500 D

Be prepared for the future

Unique and versatile

The digital photometer *NANOCOLOR®* 500 D is a logical result of a further advancement based on our very successful photometer *NANOCOLOR®* 400 D. Adapted to our customers' present and future requirements it is suitable for universal use in water and wastewater analysis. This includes municipal and industrial waste water, drinking water, surface water and ground water as well as cooling and boiler water.

Save time



17.03.09 08:39 / **=** 0261 COD 160 **87 mg/l 02** 0001 Dueren 1+0

Experience precision

Fast measurements – NANOCOLOR® barcode technology (NBT)

- Fully automatic, instant cuvette detection by the built-in laser scanner allows simple and fast routine analysis.
- Selection of test method and suitable wavelength, actual measurement and storage of results are carried out automatically. No additional keystroke is required.

Measurements without light shield

 The progressively designed optics is insensitive to external light and makes measuring straightforward.

Everything at a glance

The backlit graphic display shows all important data at a glance.

- · Measurement result, displayed directly in the required unit
- · Date / time
- Battery charge status
- · Sample number, sample location and dilution

Values above or below the measuring range are clearly marked as "out of range".

Pre-programmed tests and photometric basic functions

- More than 100 pre-programmed tests with over 200 analysis programmes.
- Professional photometric basic functions, such as absorbance, transmission, factor, standard and kinetics.

ANOCOLOR 500D



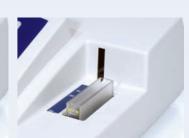
Enjoy flexibility

No cuvette adaptor required

· Accessories are not required.



Round tubes (16 mm OD) and rectangular cuvettes (10, 20, 50 mm) can be used without any adaptor.



Programmable for user-defined applications

· Free programming of up to 100 user-defined methods.

In the field and in the lab

The robust, high-performance battery with charge regulator allows continuous operation at 220V (110V) and up to 3000 on-site, mains-independent measurements. The battery charge status is shown in the graphic display. In the power saving mode the photometer switches off automatically after a definable time.

Fast photometer update – free of charge

- At any time, stay up-to-date by easy programme updating via Internet/PC.
- For the current photometer software update please visit www.mn-net.com

Assure results

Result documentation in accordance to GLP

Individual entries of sample number, sample location and dilution.

Easy memory management

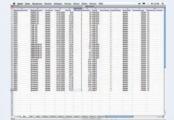
- GLP-conform storage of results with all supplementary information such as date, time, sample number, sample location and dilution.
- Fast and easy access to stored results and data sets by method, sample location, date and time.

Convenient data export

- · Easy transfer of results to your computer.
- Direct print-out on the NANOCOLOR® thermal printer (Cat.No. 919 16).









es, it, nl, hu, pl, pt, cz, id, si). Manual with test instructions, presented as pictograms

• Safe test procedures without complex instructions

Highly accurate measurements – high-quality optical components

· All tests and menu items can be activated quickly and easily. The photometer can

work. In the configuration menu, you can select up to 12 languages (de, en, fr,

be operated without any complex and time-consuming training. The newly developed user guidance allows safe operation and facilitates your daily

· Precision optics ensures accurate results

Self-explanatory user guidance

IQC according to ISO 9001 with NANOCONTROL NANOCHECK

- Fast and easy self control of NANOCOLOR® 500 D's photometric accuracy with NANOCONTROL NANOCHECK (Cat. No. 925 701).
- Checking NANOCOLOR® 500 D in accordance with internal quality control (IQC) standards satisfies supervisors' and authorities' requirements.

Professional software for data processing included

- User-friendly data transfer to MS Excel or MS Access with the NANOCOLOR® data export software
- · Easy processing of transferred data with standard software
- Recording of calibration curves for programming user-defined methods

NANOCOLOR® 500 D

Technical data

Type: Single beam filter photometer with microprocessor control, self-test

and auto-calibration, wavelength range 340 - 860 nm

Optics: Automatic filter wheel with 10 interference filters

Wavelengths: 345 / 365 / 436 / 470 / 520 / 540 / 585 / 620 / 690 / 800 nm

plus 2 compartments for additional filters

Wavelength accuracy: ± 2 nm, bandwidth at half transmission 10 - 12 nm

Light source:Tungsten lampDetector:Silicon photodiodeBlank value:Automatic and prestored

Measuring modes: Over 100 pre-programmed tests, 99 freely programmable methods,

extinction, transmission, factor, kinetics, two-point calibration

Measuring range: About 3 E neutral sign

Photometric accuracy: $\pm 1\%$ Stability: < 0.002 E/h

Cuvette holder: Round tubes 16 mm, rectangular cuvettes 10, 20, 50 mm

Data memory: 500 measurement data records, GLP compatible **Display:** Backlit graphic display, 64 x 128 pixels, 12 languages

Operation: Bar code technology, display user guidance, foil-covered push-buttons

Interfaces: USB 1.1 and bidirectional serial RS 232

Update: Via Internet / PC

Operating range: $0 - 50^{\circ}$ C, up to 90 % relative humidity

Power supply: 100 - 240 V, 50/60 Hz / 6 V, 3.2 Ah via built-in battery with

charge regulator and mains power supply

Dimensions: 227 x 282 x 105 mm

Weight: 2.4 kg Warranty: 2 years



This appliance comply with the following EC directives:

- (2006/95/EC)

- Low-Voltage Directive - 89/336/EEC of 03.05.89 (including amendment directive 92/31/EEC) – EMC Directive

Ordering information:

Universal photometer NANOCOLOR® 500 D incl. software DVD, manual, dust cover, mains power supply, data cable, USB cable and calibration cuvette in stable transport bag

Water analysis from A to Z:

For information on *NANOCOLOR* ® round tube tests, standard tests and the *NANOCONTROL* system for analytical quality assurance, request the flyer "*NANOCOLOR* ® Reagents for Photometric Water Analysis".



REF 919 500

distributor:

