

Water Analysis

NANOCOLOR® 500 D



Simply flexible

NANOCOLOR® 500 D

- Backlit graphic display
- Fastest digital photometer on the market
- Inbuilt battery
- Shock proof according to German military standard

MACHERY-NAGEL

www.mn-net.com



Since 1911

NANOCOLOR® 500 D

Be prepared for the future

Unique and versatile

The NANOCOLOR® 500 D photometer is the link between our sophisticated spectrophotometers and our small handheld compact instruments. Providing all measurement options necessary in a laboratory, the 500 D is still versatile and mobile as it can be used even under the most strenuous conditions. It is suitable for universal use in water and waste water analysis, combining extremely fast and accurate results with proven and tough technical components and design.

Save time



Fast measurements – NANOCOLOR® barcode technology (NBT)

- Fully automatic, instant cuvette detection with 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".



Preprogrammed tests and photometric basic functions

- More than 100 preprogrammed tests with over 200 analysis programs.
- Professional photometric basic functions, such as extinction, transmission, factor, standard and kinetics.

Experience precision



Self-explanatory user guidance

- All tests and menu items can be activated quickly and easily. The photometer can be operated without any complex and time-consuming training. The newly developed user guidance allows safe operation and facilitates your daily work. In the configuration menu, you can select up to 12 languages (de, en, fr, es, it, nl, hu, pl, pt, cz, id, si).

Manual with pictogram test instructions

- Safe test procedures without complex instructions

Highly accurate measurements – high-quality optical components

- Precision optics ensures accurate results

IQC according to ISO 9001 with NANOCONTROL NANOCHECK

- Fast and easy self control of NANOCOLOR® 500 D's photometric accuracy with NANOCONTROL NANOCHECK (REF 925 701).
- Checking NANOCOLOR® 500 D in accordance with internal quality control (IQC) standards satisfies supervisors' and authorities' requirements.



Enjoy flexibility

No cuvette adapter required

- Round tubes (16 mm OD) and rectangular cuvettes (10, 20, 50 mm) can be used without any adapter.
- Accessories are not required.



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 program updating via Internet/PC.
- For the current photometer software update please visit www.mn-net.com

Assure results

Result documentation in accordance to GLP

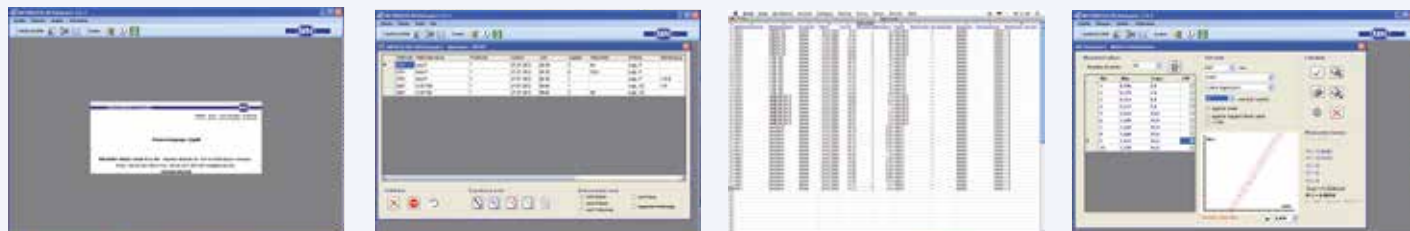
- Individual entries of sample number, sample location and dilution.

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 and professional software

- Easy transfer of results to your computer.



Professional software for data processing included

- User-friendly data transfer to MS Excel or Open Office 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 lamp
Detector:	Silicon photodiode
Blank value:	Automatic
Measuring modes:	Over 100 preprogrammed tests, 100 freely programmable methods, extinction, transmission, factor, kinetics, two-point calibration
Measuring range:	About 3 E, without sign
Photometric accuracy:	±1 %
Stability:	<0.002 E/h
Cuvette holder:	Round tubes 16 mm, OD rectangular cuvettes 10, 20, 50 mm
Data memory:	500 measurement data records, GLP-compliant
Display:	Illuminated graphic display, 64 x 128 pixels, 12 languages
Operation:	Barcode technology, display user guidance, foil covered push-buttons
Interfaces:	USB and bidirectional serial RS 232
Update:	Via Internet/PC
Operating range:	0–50 °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 device complies with the following directives:
– 2006/95/EC – Low-Voltage Directive
– 2004/108/EC – EMC Directive

Data export
software included



Ordering information:

Universal photometer **NANOCOLOR® 500 D** **REF 919 500**
incl. software DVD, manual, protective covering, mains adapter,
data cable, USB cable and calibration cuvette in stable transport
case

Water analysis from A to Z:

For information on **NANOCOLOR®** tube tests, standard tests
and the **NANOCONTROL** system for analytical quality assu-
rance, request the Rapid Test Catalog

Your local distributor:

www.mn-net.com

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