

# Water Analysis

## Portable photometer *visocolor*<sup>®</sup> photino



- Perfect tool for the determination of chlorine, pH and cyanuric acid
- Fast soluble reagents – Easy to dose
- Automatic measurement
- Approved analysis of drinking and swimming pool water

*visocolor*<sup>®</sup> photino



## VISOCOLOR® photino

Perfect tool for the determination of chlorine, pH and cyanuric acid

With the VISOCOLOR® photino and the easy to handle VISOCOLOR® reagents, the daily analysis of water quality will turn into a comfortable routine.

### Modern optics – Accurate results

- Highest accuracy and stability of measuring results especially in the low range area based on microprocessor controlled LED technology.

### Auto zero function

- The auto zero function reduces preparation of blank values to a minimum.

### Easy to use with only 2 buttons

- The comfortable operation allows an extremely simple measurement procedure.

### Auto switch technology

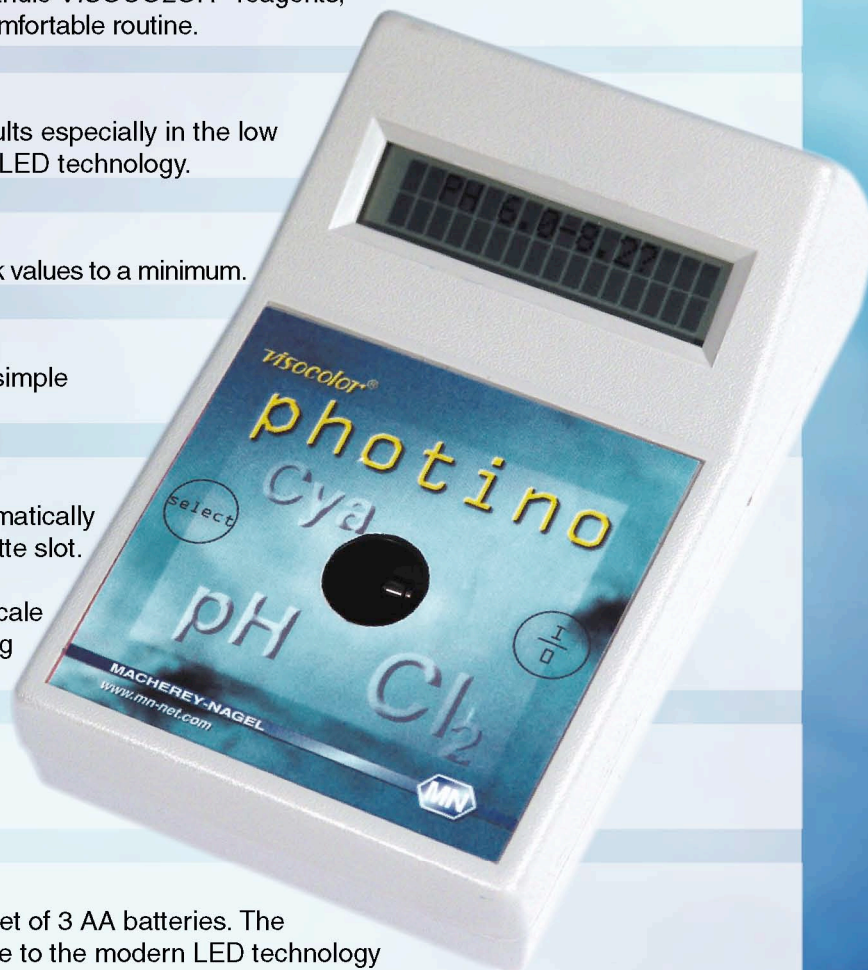
- The photometric measurement is released automatically after the cuvette has been inserted into the cuvette slot. No additional keystroke is necessary.
- The results are directly displayed in mg/l. An off scale warning occurs, if results are out of the measuring range.

### No light shields

- The modern designed optic eliminates the need for light shields and simplifies the handling.

### Economic power management

- Up to 2000 measurements can be done with a set of 3 AA batteries. The power consumption is reduced to a minimum due to the modern LED technology and power saving auto-off function after 15 min of non-use. A low battery warning indicates when you need to replace the batteries.



## Portable laboratory

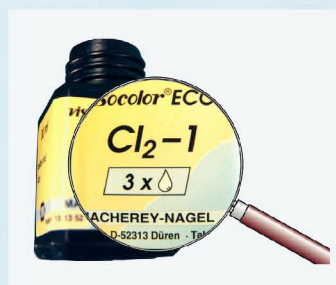
### Water analysis without additional devices

- The VISOCOLOR® photino with its lightweight but rugged carrying case is a complete portable laboratory with space for reagents and analytical accessories.

## Clear dosage and test instructions

### Step by step to the correct result

- Coloured pictograms guide you through the tests step by step.
- The VISOCOLOR® reagent bottles are equipped with clear dosing instructions.





## Comfortable handling

### Fast dissolving reagents – Easy to dose

Whether liquid or solid DPD reagents for chlorine, NANOFIX indicator capsules for pH or finest reagent powder for cyanuric acid; all reagents are easy to dose and dissolve immediately, without stirring and crushing.



## Easy to refill

### Economically priced refill packs available

The VISOCOLOR® photino case can be supplemented with the economically priced VISOCOLOR® reagents for determination of free and total chlorine, pH and cyanuric acid - up to 150 determinations each. The reagents do not contain any hazardous chemicals and the resulting preparations are easy to dispose after use.

Ordering information (refill packs):

Test	Measuring range	Cat. No.
chlorine 2 (free & total)*	0.10 – 2.50 mg/l Cl <sub>2</sub>	931 215
chlorine 6 (free & total)**	0.05 – 6.00 mg/l Cl <sub>2</sub>	931 217
pH	pH 6.0 – 8.2	931 270
cyanuric acid	10 – 100 mg/l Cya	931 223

\*liquid reagents \*\*solid reagents

## High sensitivity – Variable measuring range

### 2 different chlorine tests with EPA approved chlorine method – It's your choice

#### VISOCOLOR® ECO chlorine 6

- with solid DPD reagent (powder)
- measuring range: 0.05 – 6.00 mg/l Cl<sub>2</sub>
- only 1 reagent for the determination of free chlorine

#### VISOCOLOR® ECO chlorine 2

- with liquid DPD reagent
- measuring range: 0.10 – 2.50 mg/l Cl<sub>2</sub>
- 2 reagents for the determination of free chlorine

## Application ranges for the VISOCOLOR® photino

Versatile applicable in different ranges of water analysis



Swimming pool water



Drinking water



Waste water



Beverage industry



Disinfection and hygienic control

## VISOCOLOR® photino – Simply smart

### Reliable analysis of drinking and swimming pool water

Chlorination of drinking water and in swimming pools with chlorine or chlorine compounds should be within certain limits. To achieve a reasonable disinfection and to meet different threshold values the chlorine concentration needs to be checked regularly. With VISOCOLOR® photino defined and tolerated limits demanded by different guidelines and directives like WHO benchmarks, EC guidelines and German DIN norms can reliably be checked.





## VISOCOLOR® photino

### Technical Data

Type:	handheld LED photometer, preprogrammed with 3 calibrations
Optics:	narrow band LED with $\lambda = 525 \text{ nm}$
Detector:	photovoltaic cell
Display:	alphanumeric LC display 2 x 16 characters
Operation:	microswitch for automatic release of measurements 2 foil-covered keys
User languages:	operator controlled selection of various languages (4 per instrument)
Autoblink:	optional operator controlled feature
Automatic shut-off:	after 15 min
Stability:	< 0.005 E/h
Power supply:	3 AA batteries (included)
Operating range:	0 - 50°C (operating); 0 - 95% rel. humidity
Housing:	IP 54, corrosion and water resistant ABS plastic; sealed and splash proved foil keypad
Dimensions:	146 x 91 x 50 mm
Weight:	340 g
Warranty:	2 years



Declaration of conformity:  
These instruments comply with the following directives:  
-89/336/EEC of 03.05.1989 (including amendment directive 92/31/EEC)  
- EMV directive

### Ordering information

#### VISOCOLOR® photino

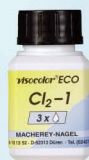
Mini photometer VISOCOLOR® photino, complete in carrying case with 3 AA batteries, 4 test tubes, 10 ml syringe, funnel, 25 ml plastic beaker, instrument manual and test instructions. Available in 2 different versions with varying reagents:

#### Version 1\*: VISOCOLOR® reagent cases for the determination of chlorine with solid DPD reagent (measuring range 0,05 – 6,00 mg/l $\text{Cl}_2$ )



VISOCOLOR® photino (Case without reagents for the determination of chlorine with solid DPD reagents)	Cat. No. 931 600.1
VISOCOLOR® photino (incl. VISOCOLOR® ECO chlorine 6)	Cat. No. 931 611.1
VISOCOLOR® photino (incl. VISOCOLOR® ECO chlorine 6 and pH)	Cat. No. 931 622.1
VISOCOLOR® photino (incl. VISOCOLOR® ECO chlorine 6, pH and cyanuric acid)	Cat. No. 931 633.1

#### Version 2\*\*: VISOCOLOR® photino reagent cases for the determination of chlorine with liquid DPD reagent (measuring range 0,10 – 2,50 mg/l $\text{Cl}_2$ )



VISOCOLOR® photino (Case without reagents for the determination of chlorine with liquid DPD reagents)	Cat. No. 931 300.1
VISOCOLOR® photino (incl. VISOCOLOR® ECO chlorine 2)	Cat. No. 931 311.1
VISOCOLOR® photino (incl. VISOCOLOR® ECO chlorine 2 and pH)	Cat. No. 931 322.1
VISOCOLOR® photino (incl. VISOCOLOR® ECO chlorine 2, pH und cyanuric acid)	Cat. No. 931 333.1

\* Not suitable for chlorine tests with liquid reagents.

\*\* Not suitable for chlorine tests with solid reagents.