

Compact photometer for mobile water analysis

The compact photometer PF-3 is the smallest member of the MACHEREY-NAGEL photometer family. The device completes our product portfolio and perfectly fits our tradition of reliability, user friendliness and innovation. The instrument comes in multiple versions, equipped with three LEDs and interference filters, designed to meet the analysis requirements of specific applications. Together with the approved *VISOCOLOR[®] ECO* and high quality *NANOCOLOR[®]* tube tests from MACHEREY-NAGEL, the PF-3 is perfectly suited for mobile analysis directly at the place of sampling. Optionally, the device comes in a practical case with pre-equipped test kits, in a cardboard box or in an empty case for the individual combination with our *VISOCOLOR[®] ECO* test kits.

Small, strong, smart

The handy and compact design makes this lightweight the ideal companion for mobile analysis. Its simple operation allows measurements within seconds. Besides the measurement accuracy, simplicity and user friendliness are key features of all MACHEREY-NAGEL devices. The interaction of context-sensitive icons and only four buttons guarantees a smart, clear and language-independent operation.

Fast and reliable results

The centerpiece of the PF-3 is its high-quality optic with the specially selected LEDs and corresponding interference filters. The unique "open slot" technology allows measurements without cuvette slot cover, thus emphasizing the high technical standard of the instrument. This yields into a simple and quick operation for the user, together with highly reliable results. MACHEREY-NAGEL provides free PC software, for an even more comfortable operation. The software makes data management convenient, simple and efficient. Additionally it guarantees a forgery-proof data management.

Be prepared

The variable power supply is of particular convenience for the user and enables reliable measurements in all situations. Besides batteries and an accu-pack, the device can also be powered directly via an USB cable or a power adaptor.

Good to know

Manifold case solutions are available for the PF-3, which can be individually equipped with test kits. An overview of the available cases is given on page 154.



Good to know

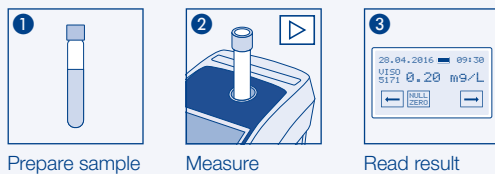
An overview of *VISOCOLOR[®] ECO* and *NANOCOLOR[®]* tube tests compatible with the PF-3 is given on page 76 and page 88.



How it's done



Photometric determination with the PF-3



Simple

- Intuitive operation with only four keys
- Flat menu structure
- Bright display for safe readings

Robust

- Glass fiber reinforced housing for extreme durability
- Water- and dustproof according to IP 68
- Shock-resistant optics

Flexible

- Various case solutions including reagents
- Additional parameters available f.o.c.
- Compatible with *VISOCOLOR® ECO* and *NANOCOLOR®* tests



PF-3

Ordering information

Description	REF
■ Compact photometer PF-3 Pool (Cl ₂ , pH, Cya, TA), in a cardboard box for evaluation of VISOCOLOR® ECO tests and NANOCOLOR® tube tests incl. manual, batteries and certificate	919 340
■ Compact photometer PF-3 Soil (NH ₄ , K, NO ₃ , PO ₄), in a cardboard box for evaluation of VISOCOLOR® ECO tests and NANOCOLOR® tube tests incl. manual, batteries and certificate	919 341
■ Compact photometer PF-3 COD (COD), in a cardboard box for evaluation of NANOCOLOR® tube tests incl. manual, batteries and certificate	919 342
■ Compact photometer PF-3 Drinking Water (Cl ₂ , pH, F, Fe, ClO ₂), in a cardboard box for evaluation of VISOCOLOR® ECO tests and NANOCOLOR® tube tests incl. manual, batteries and certificate	919 343
■ Compact photometer PF-3 Fish (NH ₄ , Cl ₂ , pH, Fe, SiO ₂ , PO ₄ , NO ₃ , NO ₂ , O ₂ , Cu), in a cardboard box for evaluation of VISOCOLOR® ECO tests and NANOCOLOR® tube tests incl. manual, batteries and certificate	919 345

Additional versions and tests will follow successively. All current options can be found at www.mn-net.com/PF-3.



Technical data

PF-3	
Type	LED photometer with microprocessor control, self-test and auto-calibration
Optics	LED + interference filters Insensitive to external light for fast measurements without cuvette slot cover
Wavelengths	3 wavelengths; depending on version Pool / Drinking Water: 450 nm / 530 nm / 590 nm Soil: 365 nm / 450 nm / 660 nm COD: 365 nm / 450 nm / 595 nm Fish: 450 nm / 530 nm / 660 nm
Wavelength accuracy	± 2 nm, bandwidth at half transmission 10 nm–12 nm
Light source	LED
Detector	Silicon-photodiode
Compatible test kits	<i>NANOCOLOR</i> [®] tube tests (see page 88) <i>VISOCOLOR</i> [®] <i>ECO</i> tests (see page 76)
Cuvette slot	Tubes 16 mm OD
Memory	50 results
Display	Backlit graphic display, 128 x 64 pixels, all important data at a glance: result with unit, date, time
Auto-off function	Inactive or automatic shutdown after 5 min, 10 min, 15 min, 20 min
Quality control	With <i>NANOCONTROL</i> <i>NANOCHECK</i>
Operation	Self-explanatory menu guidance, foil keypad, test selection via parameter lists
Interface	Mini-USB
Update	Free of charge via Internet / PC
Operating range	10 °C–40 °C, up to 80 % relative humidity (non-condensing)
Power supply	3 AA batteries, rechargeable batteries, USB interface; optional internal accu-pack
Housing	Shock-resistant; waterproof and dustproof, according to IP 68
Dimensions	170 mm x 95 mm x 68 mm
Weight	0.5 kg
Warranty	2 years
CE	CE certified