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Palintest Lumiso Expert Multi-Parameter Photometer



Specifications

Key Technical Details:

Specification	Details
Instrument Type	Multi-parameter photometer
Wavelengths	430 nm, 465 nm, 530 nm, 575 nm, 620 nm (± 2 nm)
Accuracy	± 1 %T (per cent transmittance)
Display & Interface	Full-colour, 16:9 TFT touchscreen, 800×480 px resolution, PC AP touch panel
Dimensions & Weight	211 × 195 × 52 mm; 0.85 kg
Waterproof & Impact	IP67 rated, IK08 impact resistant
Power Supply	6 × AA batteries or USB standalone
Battery Life	Approx. 5,000 tests per battery set
Memory & Data	Stores >1,000 results; integrates with Palintest Connect for data upload & traceability
Certifications	EN61326, EN61010, EN60068-2-78, IP67, across testing instruments standards
Materials & Sustainability	The case includes recycled plastics; a waterproof reagent box is included
Number of Tests Supported	35–70+ test parameters, including key water quality indicators across various sectors

Introduction

The Lumiso Expert is a compact yet powerful benchtop photometer designed for testing water in diverse environments—from drinking and wastewater to pools, spas, and industrial settings. It pairs advanced photometric chemistry with a touch-driven user interface, rugged build, and full audit-trail data management. The result? Reliable, lab-

grade testing on the go.

Usage

- **Pool & Spa Monitoring:** Regular checks of chlorine, pH, hardness, etc., enabled by quick reagent-based testing.
- **Drinking Water & Wastewater Testing:** Handles both routine parameters and complex troubleshooting in the field or lab.
- **Industrial & Humanitarian Ops:** Used in food, manufacturing, and emergency water testing for compliance, filtering, and safety.
- **Traceable Data Management:** Seamless result logging and uploads via Palintest Connect make it ideal for audits and workflows.

Safety & Handling Tips

- **Avoid Wet Battery Replacements:** Moisture can damage the electronics—battery changes should occur in dry environments.
- **Clean Optics Carefully:** Use soft, damp cloths to prevent scratches that could compromise accuracy.
- **Use Check Standards:** Periodic verification with neutral density filters ensures consistent performance.
- **Firmware Updates & Registration:** Register the device and update via Palintest Connect to keep features current.
- **Use Proper Reagents:** Always follow reagent safety guidelines and store them according to instructions.

Fluoride

Photometric test for Fluoride in drinking water, natural water and treated water

- **COLOUR CHANGE**



Red to Yellow

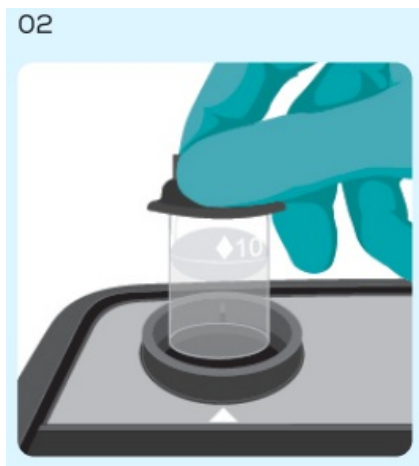
- **RANGE** 0 – 1.5 mg/L F
- **TECHNICAL RESOURCE** Fluoride Test Method. Technical Information

USAGE INSTRUCTIONS

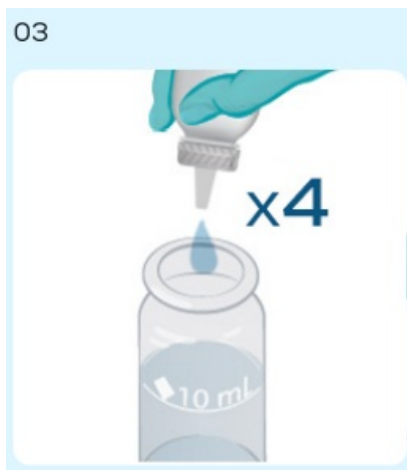
1. Fill to the 10 mL line with sample.



2. Use this to “blank” the instrument. Place in the cell holder and press Blank.



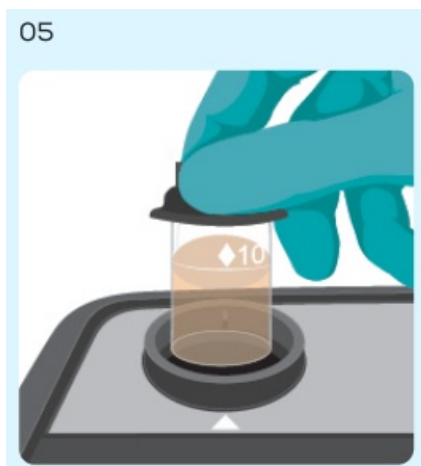
3. Prepare the sample by adding 4 drops of the Fluoride Liquid Reagent and stirring to mix.



4. Then, add a Fluoride N02 tablet and crush and stir.



5. Place in the cell holder and press Measure.



6. Allow the timer to count down 5 minutes. The concentration of Fluoride will then be displayed.



www.palintest.com

FAQs

Q1: How many tests can the Lumiso Expert perform on one set of batteries?

A: About 5,000 tests from a fresh set of 6 × AA batteries.


Q2: Can it operate with wet or gloved hands?

A: Yes—the touchscreen is designed for use even in wet conditions or with gloves on.

Q3: Is it suitable for both quick diagnostics and routine compliance testing?

A: Absolutely. With 35–70+ test capabilities, touchscreen guidance, and audit-ready data logging, it fits both everyday monitoring and regulatory reporting.

Documents / Resources

	Palintest Lumiso Expert Multi-Parameter Photometer [pdf] Owner's Manual Lumiso Expert Multi-Parameter Photometer, Lumiso Expert, Multi-Parameter Photometer, Photometer
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References

- [User Manual](#)

Palintest
Lumiso Expert, Lumiso Expert Multi-Parameter Photometer, Multi-Parameter Photometer, Palintest, Photometer

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