

Palintest

Water Analysis Technologies



MULTIPARAMETER PHOTOMETERS

POOL AND SPA WASTEWATER DRINKING WATER PROCESS WATER SOIL

About us

Palintest is a leading company in the design and manufacture of water analysis technologies, supplying a comprehensive range of precision instruments for multidisciplinary analysis.

A global company with a local approach

• USA • UK • China • Australia



Application areas



Drinking water

Test kits for water treatment and supply



Pool and spa

Kits for commercial and residential sectors



Soil and irrigation

Test kits for optimising crop yields



Process industries

Test kits for industrial processes

Product range



From multiparameter photometers to visual test kits Palintest has a wide range of solutions for every application.

Water testing library



Our online library contains research and insight surrounding our products and the applications they are used in.

Analysing critical water quality parameters

We offer a wide range of instruments covering all critical water quality parameters. Our multiparameter photometers are ideal for providing the critical information required for drinking water, wastewater, environmental and process applications

Our multiparameter photometers utilise photometric and colorimetric analysis, providing repeatable and reliable results for over 100 tests.

Key benefits of Palintest photometers:

Stable and repeatable calibration

No need for frequent re-calibration.

Low detection limits

Measure even the slightest concentrations for key water quality parameters.

Visible analysis

The colour may be visible to the naked eye but a photometer removes the subjectivity and provides a much more accurate reading

Photometer feature key



Tablet icon

This instrument is compatible with tablet reagents.



Tubetest icon

This instrument is compatible with liquid tubetest reagents.



Liquid icon

This instrument is compatible with liquid reagents.



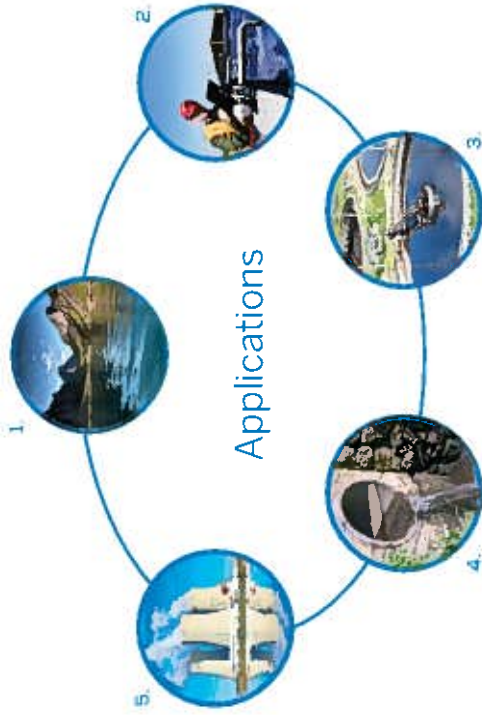
USB icon

This instrument includes a data transfer function via USB.



Bluetooth icon

This instrument includes a data transfer function via Bluetooth.



Applications

1. Raw water abstraction

Drinking water originates from a variety of sources; fresh water extracted from rivers and lakes, seawater treated using desalination or natural wells and springs used for local supply.

2. Drinking Water Treatment

Drinking water treatment ensures the raw water abstracted is suitable for human consumption. This can involve flocculation and clarification, filtration and disinfection. Once the water adequately is disinfected the water can be distributed and may be further treated at the point of use.

3. Domestic Wastewater Treatment

The treatment of domestic wastewater aims to reduce organic material so it is suitable for discharge back into the environment. Removing organics along with reducing nutrients are the primary goals of domestic wastewater treatment.

4. Industrial Wastewater Effluent

Industrial wastewater has the same aim as domestic wastewater treatment but can have unique additional contaminants. Water discharged into the environment must be monitored for impact on oxygen demand to protect aquatic life.

5. Managing Processes involving Water

Processes such as food & beverage production and energy generation require water as an essential part of the process. Testing throughout the process ensures maximum efficiency and yield.

Choose your Multiparameter photometer



Features	Phometer 7100	Phometer 7500 Bluetooth
Batteries/Power	•	•
Number of Methods	> 100	> 100
Sample ID	•	•
Frequently Used Test List/Hot Keys	•	•
Multiple Date Formats	•	•
Automatic Method Set-Up	•	•
Timer	•	•
Automatic Read After Development Timer	•	•
Date/Time	•	•
Backlight with User Control	•	•
Accessable Colocal Function: Cleaning	•	•
Automatic Sample Tube Centering	•	•
Numeric/Select Key Interface	•	•
Connectivity		Bluetooth & USB
Watts/Power		Via USB port
Bidirectional Serial Communication		•
User Defined Tests		30
CSV Format Data Download		•
User Access Control Lock		•
Result Log		•
Drag and Drop Method Update		•
RS232 Connectivity		•
Barcode reader for Tubes/Tests		•
Touchscreen Interface		•
User Favorite Test List		•
Selectable Data Download		•
Memory Capacity	100	500

Photometer 7500

The Photometer 7500 is our most popular photometer due to its versatility and simplicity of use. Reliable and intuitive it has been designed to simplify the process of testing and managing water quality data.



The Photometer 7500 includes over 100 tests with the capability to add your own tests to the instrument.

Features include:

- Effortlessly store your data and transfer them to the PalmTest Aqua Pal App with Bluetooth® connectivity
- Downloadable data log with 500 results (including time and date of test)
- Develop your own tests - load them via the USB port into your photometer with a simple software tool



Bluetooth®

Technical Specification

Instrument Type	Dual light source photometer offering direct reading of pre-programmed test calculations. Absorbance and Transmittance.
Peak Wavelengths	450nm, 500nm, 550nm, 570nm, 600nm, 650nm
Accuracy	± 1.0% T
Display	320 x 240 pixel LCD with back light and contrast adjustment
User Interface	On-screen prompts available in English, French, Spanish, German, Italian, Turkish and Mandarin (Chinese).
Size (W x L x H) or Weight	150 x 250 x 70mm, 875g
IP Rating	IP67
Power Supply	3 x 1.5V AA batteries (typical 7-10 hours), mains power delivered by USB port
Connectivity	PalmTest Bluetooth® (4-0) profile and USB for data download
User Defined Methods	Up to 30 additional methods
Memory Capacity	Up to 5000 data sets. Each data set includes date, time, Sample ID, Operator ID, method number, method name, result units
Sample Tubes	Automatic centering for cylindrical sample tubes from 13 – 20mm OD

Kit contents

	PTBH 7500 Photometer 7500 Bluetooth Standard Kit		PTBR 7500 Photometer 7500 Bluetooth Benchtop Kit		PTBW 7500 Photometer 7500 Bluetooth Engineers Kit
Photometer 7500 Bluetooth	•	Photometer 7500 Bluetooth	•	Photometer 7500 Bluetooth	•
Sample Tube	•	Sample Tube	•	Sample Tube	•
Sample Tube Rack	•	Sample Tube Rack	•	Sample Tube Rack	•
Lint Free Polishing Cloth	•	Lint Free Polishing Cloth	•	Lint Free Polishing Cloth	•
Absorbent Cloth	•	Absorbent Cloth	•	Absorbent Cloth	•
20 mL Syringe	•	20 mL Syringe	•	20 mL Syringe	•
10 mL Syringe	•	10 mL Syringe	•	10 mL Syringe	•
Dilution Tube	•	Dilution Tube	•	Dilution Tube	•
Sample Tube Brush	•	Sample Tube Brush	•	Sample Tube Brush	•
Cush/Stir Rod	•	Cush/Stir Rod	•	Cush/Stir Rod	•
USB Lead	•	USB Lead	•	USB Lead	•
Waterproof USB Lead	•	Waterproof USB Lead	•	Waterproof USB Lead	•
USB Power Adaptor	•	USB Power Adaptor	•	USB Power Adaptor	•
Sealant Pack	•	Sealant Pack	•	Sealant Pack	•
Multiparameter (pH, EC, TDS, Salinity) Pocket Sensor	•	Multiparameter (pH, EC, TDS, Salinity) Pocket Sensor	•	Multiparameter (pH, EC, TDS, Salinity) Pocket Sensor	•
pH and Conductivity Calibration Solutions	•	pH and Conductivity Calibration Solutions	•	pH and Conductivity Calibration Solutions	•
Check Standard Set	•	Check Standard Set	•	Check Standard Set	•
Hard Carry Case	•	Hard Carry Case	•	Hard Carry Case	•
Transport Carton	•	Transport Carton	•	Transport Carton	•
1067 Carry Case	•	1067 Carry Case	•	1067 Carry Case	•

Ordering Information

PTBH 7500	Photometer 7500 Bluetooth Standard Kit
PTBR 7500	Photometer 7500 Bluetooth Benchtop Kit
PTBW 7500	Photometer 7500 Bluetooth Engineers Kit



Photometer 7100

Whether for drinking water, wastewater, effluent, process water or environmental analysis, the Photometer 7100 provides the complete range of test parameters in a water proof instrument

Simple to use, robust in construction and designed for on-site analysis. The Photometer 7100 provides quick and dependable results, which enables decisions on water quality to be made with confidence.

Features include:

- Simple operation with automatic setup for each test. Designed for Palintest reagent systems in tablet form or liquid based tubetest reagents with its adaptive cell holder.
- Rapid access to frequently used tests from a choice of over 100 methods
- Waterproof to IP67, protecting the instrument from water damage.

Available as benchtop kit with all necessary accessories, or in a carry case for portable use with additional spaces for carrying reagents.



Technical Specification

Instrument Type	Dual light source photometer offering direct reading of pre-programmed test parameters. Automatic reagent dispensance.
Wavelengths	450nm, 620nm, 655nm, 690nm, 800nm, 850nm
Accuracy	±1.0%T
Display	256 x 384 pixel (4.3" LCD) multi-line light grey contrast backlight
User Interface	On-screen prompts available in English, French, Spanish, German, Italian, Polish and Russian (Chinese).
Size (W x L x H) (mm)	150 x 250 x 70mm, 975g
IP Rating	IP67
Power Supply	3 x 1.5V (alkaline) (AA) (optional)
Cartridge Tubes	Automatic ordering for 6 individual cartridge tubes from 1L to 20mm ID.

Kit contents

	Photometer 7100 instrument	•
	Sample Tube Rack	•
	10 mL Syringe	•
	Dilution Tube	•
	Sample Tube Crush	•
	Crush/Stir Rod	•
	Hard Carry Case	•
	Transport Carton	•
	PTH 7100 Photometer 7100 Standard Kit	•
	PTR 7100 Photometer 7100 Benchmark Kit	•

Ordering Information

PTH 7100	Photometer 7100 Standard Kit
PTR 7100	Photometer 7100 Benchmark Kit



TubeTests

For ultimate convenience the Pointest range of TubeTests reagents offer pre-dispensed reagents for minimal handling with bar coded reagent labelling for ease of use in wastewater applications.



For wastewater parameters such as Chemical Oxygen Demand (COD), nutrients and Heavy Metals the TubeTests range provides the complete solution.

Features include:

- 16mm OD tubes for improved resolution – larger diameter tubes are more sensitive in the lower part of the measuring range
- Full range of accessory heater blocks, tube racks, workplace mats, and pipettes to provide the complete solution for TubeTests analysis

Available in packs of 25 tests, the TubeTests range of reagents supports the activities of any effluent monitoring laboratory. Add any multiparameter photometer to your heater block and reagents for a complete wastewater analysis system.

TubeTests Reagents

Mercury Free for Low Chloride Samples	Range	Part Code
COD/150/2M	0 – 150 mg/L O ₂	PL 461
COD/1000/2M	0 – 1000 mg/L O ₂	PL 458
COD/2000/2M	0 – 2000 mg/L O ₂	PL 465
COD/20000/2M	0 – 20000 mg/L O ₂	PL 457
Containing Mercury for Moderate Chloride Samples	Range	Part Code
COD/150/1M	0 – 150 mg/L O ₂	PL 460
COD/1000/1M	0 – 1000 mg/L O ₂	PL 462
COD/2000/1M	0 – 2000 mg/L O ₂	PL 463
COD/20000/1M	0 – 20000 mg/L O ₂	PL 464
COD/20000/1M	0 – 20000 mg/L O ₂	PL 466

Containing Mercury for High Chloride Samples	Range	Part Code
COD/150/2M	0 – 150 mg/L O ₂	PL 461
COD/1000/2M	0 – 1000 mg/L O ₂	PL 458
COD/2000/2M	0 – 2000 mg/L O ₂	PL 465
COD/20000/2M	0 – 20000 mg/L O ₂	PL 457
COD Standard Solutions (COD Concentration)	Nominal COD Concentration	Part Code
COD Standard Solution, 125 µL	80 mg/L	PL 470
COD Standard Solution, 125 µL	250 mg/L	PL 472
COD Standard Solution, 125 µL	800 mg/L	PL 474
COD Standard Solution, 125 µL	10,000 mg/L	PL 476
Nutrients	Range	Part Code
Ammonia 15V, Nessler Method	0 – 15 mg/L N	PL 420
Ammonia 500V, Nessler Method	0 – 50 mg/L N	PL 424
Ammonia 1000V, Nessler Method	0 – 100 mg/L N	PL 426
Ammonia 12V/50V, Indophenol Method	0 – 12 mg/L N 0 – 50 mg/L N	PL 400
Phosphate 30N	0 – 30 mg/L P 0 – 150 mg/L PO ₄	PL 404
Total Nitrogen 33F (use with PL 404)	0 – 30 mg/L N	PL 408
Phosphate 12F	0 – 12 mg/L P	PL 412
Total Phosphorus 12P	0 – 12 mg/L P	PL 416
Heavy Metals	Range	Part Code
Chromium VI (Cr ⁶⁺)	0 – 10 mg/L Cr	PL 440
Total Chromium	0 – 10 mg/L Cr	PL 436
Copper	0 – 20 mg/L Cu	PL 427
Iron	0 – 25 mg/L Fe	PL 434
Nickel	0 – 20 mg/L Ni	PL 430
Zinc	0 – 7 mg/L Zn 0 – 35 mg/L Zn	PL 442

Servicing and Maintenance

2
Year
Warranty

Register your Photometer to take advantage of the 2 year warranty and access our full range of technical support.

Annual calibration and service will keep your instrument operating at the peak of performance.

0152352
Photometer
7500 Bluetooth/
7100 Instrument
Service and
Calibration

For Photometer 7500
Bluetooth and Photometer
7100. Includes multi-point
recalibration using
traceable standards,
inspection and test
with issue of new
calibration certificate.



For further information and support, get in touch with a member of our team:



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