

# Photometer 7500 Bluetooth®



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

- Effortlessly store 500 results and transfer to the Palintest Aqua Pal App with Bluetooth®
- Covers the full range of test parameters
- Personalise your instrument by adding your own tests



Bluetooth®  
data transfer



USB  
data transfer



Tablet  
reagents



Tubetest  
reagents

## Ordering Information



### PTBR7500

#### Photometer 7500 Bluetooth® Benchtop Kit

Instrument and light cap, 10 glass cuvettes, cuvette rack, absorbent cloth, 10 mL syringe, dilution tube/sample container, cuvette brush, lint free cloth, 10 crush/stir rods, cuvette rack, USB lead, Mains Adapter, Instrument instructions, Palintest method book. Supplied in a transit carton.



### PTBH7500

#### Photometer 7500 Bluetooth® Standard Kit

Instrument and light cap, 8 glass cuvettes, dilution tube/sample container, USB lead, cuvette brush, 10 crush/stirring rods, lint free cloth, 10 mL syringe, instrument instructions, Palintest method book. Supplied in a hard case.



### PTBW7500

#### Photometer 7500 Bluetooth® Engineers Kit

Instrument and light cap, 8 glass cuvettes, 2 dilution tubes/sample containers, 20 mL syringe with Luer fitting, Luer filter holder, GFB filter pack, 10 mL syringe, USB lead, mains adapter, cuvette brush, 10 crush/stirring rods, cuvette rack, lint free cloth, De-ion pack, check standards, multiparameter pocket sensor, conductivity calibration solution, pH 4/7/10 calibration solutions, instrument instructions, Palintest method book. Supplied in an IP67 hard case with space for up to 4 reagent Starter Packs.

## Technical Specification

	Split beam colorimeter offering direct-reading of pre-programmed test calibrations, Absorbance and Transmittance
<b>Wavelengths</b>	450 nm, 500 nm, 550 nm, 570 nm, 600 nm, 650 nm
<b>Accuracy</b>	±1.0% T
<b>Display</b>	320 x 240 pixel LCD with backlight and contrast adjustment
<b>User Interface</b>	On-screen prompts in English, French, Spanish, German, Italian, Turkish and Chinese (Simplified).
<b>Size (W x L x H) and weight</b>	150 x 250 x 70 mm, 975 g
<b>Power Supply</b>	3 x 1.5v 'AA' batteries (typically 40 hours), mains power via USB port
<b>Connectivity</b>	Palintest Bluetooth® (4.0) profile and USB for data download
<b>User Defined Methods</b>	Up to 30 additional methods
<b>Memory Capacity</b>	Up to 500 data sets.

# Photometer Tablet Reagents

Photometer tablet reagents are available in two pack sizes. Starter Packs (PM codes) contain 50 tests plus any optional reagents or equipment needed. Replacement Packs (AP codes) contain reagents for 250 tests unless stated otherwise.



Test Name	Measurement Range	Starter Pack (50 tests)	Replacement Pack (up to 250 tests)
Alkalinity (Alkaphot M)	0 - 500 mg/L CaCO <sub>3</sub>	PM250	AP250
Alkalinity (Alkaphot P)	0 - 500 mg/L CaCO <sub>3</sub>	PM251	AP251
Total Alkalinity (Alkaphot)	0 - 500 mg/L CaCO <sub>3</sub>	PM188	AP188
Aluminium	0 - 0.5 mg/L Al	PM166	AP166
Ammonia	0 - 1.0 mg/L N	PM152	AP152
Bromine	0 - 10 mg/L Br <sub>2</sub>	PM060	AP060
Boron	0 - 2.5 mg/L B	PM190	AP190 (160 tests)
Calcium Hardness (Calcicol)	0 - 500 mg/L CaCO <sub>3</sub>	PM252	AP252
Chloride (Chloridol)	0 - 50,000 mg/L NaCl	PM268	AP268
Chlorine - Free (DPD 1)	0 - 5 mg/L Cl <sub>2</sub>	PM011	AP011
Chlorine - Free, extended range (DPD XF)	0 - 10 mg/L Cl <sub>2</sub>	PM013	AP013
Chlorine - Free, Combined & Total (DPD 1 & 3)	0 - 5 mg/L Cl <sub>2</sub>	PM031	AP031
Chlorine - Free, Combined & Total, extended range (DPD XF & XT)	0 - 10 mg/L Cl <sub>2</sub>	PM033	AP033
Chlorine - Monochloramine (DPD 2, requires DPD 1)	0 - 5 mg/L Cl <sub>2</sub>	-	AP021
Chlorine - Total (DPD 4)	0 - 5 mg/L Cl <sub>2</sub>	PM041	AP041
Chlorine - Total (DPD 3 only)	0 - 5 mg/L Cl <sub>2</sub>	-	AP031/1
Chlorine - Total, extended range (DPD XT only)	0 - 10 mg/L Cl <sub>2</sub>	-	AP033/1
Chlorine HR	0 - 250 mg/L Cl <sub>2</sub>	PM162	AP162
Chlorine Dioxide and Chlorite (DPD method)	0 - 10 mg/L ClO <sub>2</sub>	PM052	AP052
Chlorine Dioxide LR (Lissamine Green B method)	0 - 2.5 mg/L ClO <sub>2</sub>	PM064	AP064
Chlorine Dioxide HR (Lissamine Green B method)	2.5 - 20 mg/L ClO <sub>2</sub>	PM065	AP065
Chromium VI (Chromicol)	0 - 1.0 mg/L Cr	PM281	AP281
Colour	10 - 500 mg/L Pt Co (Hazen)	PM269	-
Copper - Free, Combined & Total (Coppercol)	0 - 5 mg/L Cu	PM186	AP186
Copper - Free	0 - 5 mg/L Cu	-	AP187
Cyanuric Acid	0 - 200 mg/L CYA	PM087	AP087
DEHA	0 - 500 ppb DEHA	PM275	AP275
Fluoride	0 - 1.5 mg/L F	PM179	AP179 (200 tests)
Hardness - Total (Hardicol)	0 - 500 mg/L CaCO <sub>3</sub>	PM254	AP254
Hydrazine	0 - 0.5 mg/L N <sub>2</sub> H <sub>2</sub>	PM103 (30 tests)	AP103 (150 tests)
Hydrogen Peroxide LR	0 - 2 mg/L H <sub>2</sub> O <sub>2</sub>	PM104	AP104
Hydrogen Peroxide HR	0 - 100 mg/L H <sub>2</sub> O <sub>2</sub>	PM105	AP105

Test Name	Measurement Range	Starter Pack (50 tests)	Replacement Pack (250 tests)
Iron LR	0 - 1 mg/L Fe	-	AP155
Iron MR	0 - 5 mg/L Fe	PM292	AP292
Iron HR	0 - 10 mg/L Fe	PM156	AP156
Magnesium Hardness (Magnecol)	0 - 100 mg/L Mg	PM193	AP193
Manganese	0 - 0.03 mg/L Mn	PM173	AP173
Manganese HR	0 - 5 mg/L Mn	PM174	AP174
Molybdate LR	0 - 20 mg/L MoO <sub>4</sub>	PM258	AP258 (200 tests)
Molybdate HR	0 - 100 mg/L MoO <sub>4</sub>	PM175	AP175
Nickel (Nickeltest)	0 - 10 mg/L Ni	PM284	AP284 (200 tests)
Nitrate (Nitratetest)	0 - 20 mg/L N	PM163	AP163 (200 tests)
Nitrite (Nitricol)	0 - 0.5 mg/L N	PM109	AP109
Nitrite (Nitriphot)	0 - 1500 mg/L NaNO <sub>2</sub>	PM260	AP260
Organophosphonate (OP)	0 - 20 mg/L PO <sub>4</sub>	PM262	AP262
Ozone (DPD method)	0 - 2 mg/L O <sub>3</sub>	PM056	AP056
pH Phenol Red	pH 6.5 - 8.5	PM130	AP130
Phenol (Phenoltest)	0 - 5 mg/L C <sub>6</sub> H <sub>5</sub> OH	PM287	AP287 (200 tests)
PHMB (PHMB-PHOT)	0 - 100 mg/L active biocide	PM272	AP272
Phosphate LR	0 - 4 mg/L PO <sub>4</sub>	PM177	AP177 (200 tests)
Phosphate HR	0 - 100 mg/L PO <sub>4</sub>	PM114	AP114
Potassium	0 - 12 mg/L K	PM189	AP189
Silica	0 - 4 mg/L SiO <sub>2</sub>	PM181	AP181 (200 tests)
Silica HR	0 - 150 mg/L SiO <sub>2</sub>	PM290	AP290 (200 tests)
Sulfate	0 - 200 mg/L SO <sub>4</sub>	PM154	AP154
Sulfide	0 - 0.5 mg/L S	PM168	AP168 (200 tests)
Sulfite (Sulfitest)	0 - 500 mg/L Na <sub>2</sub> SO <sub>3</sub>	PM266	AP266
Zinc	0 - 4 mg/L Zn	PM148	AP148



Photometer reagents are supplied in starter packs comprising consumables sufficient for testing 50 samples, or replacement packs of 200/250 tests. Test instructions are only supplied with starter packs, and can be downloaded from [www.palintest.com](http://www.palintest.com)

# Photometer Tubetest Reagents

For ultimate convenience the Palintest range of Tubetest reagents offer pre-dispensed reagents for minimal handling. Each tubetest reagent is barcoded for ease of use in wastewater applications.

For a complete wastewater analysis system, use Palintest tubetests with any Palintest multiparameter photometer and heater block. Tubetest reagents are supplied in 16mm diameter tubes with each parameter often available in a wide variety of ranges to suit the application requirements.



Test Name	Measurement Range	Part Code (25 tests)
<b>Chemical Oxygen Demand (COD) Mercury Free for Low Chloride Samples</b>		
COD/150	0 - 150 mg/L O <sub>2</sub>	PL450
COD/400	0 - 400 mg/L O <sub>2</sub>	PL452
COD/1000	0 - 1000 mg/L O <sub>2</sub>	PL453
COD/2000	0 - 2000 mg/L O <sub>2</sub>	PL454
COD/20000	0 - 20000 mg/L O <sub>2</sub>	PL456
<b>Chemical Oxygen Demand (COD) Containing Mercury for Moderate Chloride Samples</b>		
COD/150/M	0 - 150 mg/L O <sub>2</sub>	PL460
COD/400/M	0 - 400 mg/L O <sub>2</sub>	PL462
COD/1000/M	0 - 1000 mg/L O <sub>2</sub>	PL463
COD/2000/M	0 - 2000 mg/L O <sub>2</sub>	PL464
COD/20000/M	0 - 20000 mg/L O <sub>2</sub>	PL466
<b>Chemical Oxygen Demand (COD) Containing Mercury for High Chloride Samples</b>		
COD/150/2M	0 - 150 mg/L O <sub>2</sub>	PL461
COD/1000/2M	0 - 1000 mg/L O <sub>2</sub>	PL468
COD/2000/2M	0 - 2000 mg/L O <sub>2</sub>	PL465
COD/20000/2M	0 - 20000 mg/L O <sub>2</sub>	PL467
<b>Chemical Oxygen Demand (COD) Standard Solutions</b>		
(COD Concentration)		
COD Standard Solution, 125 mL	80 mg/L	PL470
COD Standard Solution, 125 mL	250 mg/L	PL472
COD Standard Solution, 125 mL	800 mg/L	PL474
COD Standard Solution, 125 mL	10000 mg/L	PL476

Test Name	Measurement Range	Part Code (25 tests)
<b>Chemical Oxygen Demand (COD) Nutrients</b>		
Ammonia 15N, Nessler Method	0 - 15 mg/L N	PL420
Ammonia 50N, Nessler Method	0 - 50 mg/L N	PL424
Ammonia 100N, Nessler Method	0 - 100 mg/L N	PL425
Ammonia 12N/50N, Indophenol Method	0 - 12 mg/L N 0 - 50 mg/L N	PL400
Nitrate 30N	0 - 30 mg/L N 0 - 150 mg/L NO <sub>3</sub>	PL404
Total Nitrogen 30N (use with PL 404)	0 - 30 mg/L N	PL408
Phosphate 12P	0 - 12 mg/L P	PL412
Total Phosphorus 12P	0 - 12 mg/L P	PL416
<b>Chemical Oxygen Demand (COD) Heavy Metals</b>		
Chromium VI (Cr <sup>6+</sup> )	0 - 10 mg/L Cr	PL440
Total Chromium	0 - 10 mg/L Cr	PL436
Copper	0 - 20 mg/L Cu	PL427
Iron	0 - 25 mg/L Fe	PL434
Nickel	0 - 20 mg/L Ni	PL430
Zinc	0 - 7 mg/L Zn 0 - 35 mg/L Zn	PL442

Code	Tubetests Accessories	
PT 589	COD Accessory Set 0 - 2000 mg/L O <sub>2</sub>	Contains Workplace Mat, 2 mL Pipettor Tips, Metal Tubetests Rack, Thermometer (-10°C to 200°C), Standard Tubetests Heater, Safety Screen (PT 590), anodized aluminium heater block, power lead
PT599	COD Accessory Set 0 - 20000 mg/L O <sub>2</sub>	
PT 590	Replacement safety screen for Standard Tubetests Heater	
PT 592 UK/EU/USA	Premium Tubetests Heater including integrated safety screen, anodized aluminium heater block, power lead. Available for compatibility with UK/EU/USA power leads.	

## Other Liquid Reagents

Test Name	Measurement Range	Part Code (30 tests)	Part Code (1000 tests)
Dissolved Oxygen 0.8	0 - 0.8 mg/L O <sub>2</sub>	PL553	
Dissolved Oxygen 2.0	0 - 2.0 mg/L O <sub>2</sub>	PL503	
Dissolved Oxygen 20	0 - 20 mg/L O <sub>2</sub>	PL513	
Chlorine - Free (equivalent to DPD 1)	0 - 5 mg/L Cl <sub>2</sub>		AT015
Chlorine - Total (equivalent to DPD 3). Use in conjunction with AT 015	0 - 5 mg/L Cl <sub>2</sub>		AT035

# Photometer Accessories

<b>PT804</b>	Photometer 7100/7500 Check Standards. Supplied in a storage case with certificate
<b>PT595/5</b>	Photometer Cuvettes (x5) - glass, with caps. 20 mm OD, 77 mm tall with 10 mL graduation
<b>PT524/5</b>	Round Test Tubes for Photometer, 10 mL plastic (pack of 5)
<b>PT502</b>	Crush/Stirring Rods - Pack of 10 crush/stirring rods
<b>PT503</b>	Nessler Tubes, 50 mL, glass (pair)
<b>PT641</b>	Measuring Cylinder, plastic, 10 mL
<b>PT530</b>	P/P 250 mL Graduated Bottle
<b>PT512</b>	Sample Container/Dilution Tube
<b>PT516</b>	Wash Bottle, 250 mL
<b>PT518</b>	Wash Bottle (for Deionised Water)
<b>PT519</b>	Sample Container, 50/10 mL plastic bottle
<b>PT526</b>	Sample Container, 20/10 mL plastic tube
<b>PT500</b>	De-Ion Pack (makes approximately 5 litres Deionised Water)
<b>PT1250</b>	Deionised Water, 500 mL
<b>PT745</b>	USB Power Supply Unit
<b>PT746</b>	USB Photometer-Computer/PSU Cable
<b>PT361/62/65/69</b>	Plastic Syringe (1 mL - PT 361), (2 mL - PT 362), (5 mL - PT 365), (10 mL - PT 369)
<b>PT370 / 372</b>	Plastic Syringe, Luer fitting (20 mL - PT 370), (50 mL - PT 372)
<b>PT375</b>	Dilution Syringe, x 10/100 (for use with PT 512)
<b>PT376</b>	Dilution Syringe, x 100/1000 (for use with PT 512)
<b>PT606</b>	Filter Holder, Luer, 2.5 cm dia
<b>PT605</b>	Filter 0.45µm membrane, 2.5 cm dia (Box of 50)
<b>PT603</b>	Filter Paper, GF/B, 2.5 cm dia (Pack of 50)
<b>PT607</b>	Filter Funnel, 7 cm diameter, plastic
<b>PT618</b>	Filter Paper, No 40, 11 cm diameter (100 Circles)