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Photometer 7500 Bluetooth®



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.

- 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 |
| Wavelengths | 450 nm, 500 nm, 550 nm, 570 nm, 600 nm, 650 nm |
| Accuracy | ±1.0% T |
| Display | 320 x 240 pixel LCD with backlight and contrast adjustment |
| User Interface | On-screen prompts in English, French, Spanish, German, Italian, Turkish and Chinese (Simplified). |
| Size (W x L x H) and weight | 150 x 250 x 70 mm, 975 g |
| Power Supply | 3 x 1.5v 'AA' batteries (typically 40 hours), mains power via USB port |
| Connectivity | Palintest Bluetooth® (4.0) profile and USB for data download |
| User Defined Methods | Up to 30 additional methods |
| Memory Capacity | 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 ₃ | PM250 | AP250 |
| Alkalinity (Alkaphot P) | 0 – 500 mg/L CaCO ₃ | PM251 | AP251 |
| Total Alkalinity (Alkaphot) | 0 – 500 mg/L CaCO ₃ | 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 ₂ | PM060 | AP060 |
| Boron | 0 – 2.5 mg/L B | PM190 | AP190 (160 tests) |
| Calcium Hardness (Calcicol) | 0 – 500 mg/L CaCO ₃ | PM252 | AP252 |
| Chloride (Chloridol) | 0 – 50,000 mg/L NaCl | PM268 | AP268 |
| Chlorine - Free (DPD 1) | 0 – 5 mg/L Cl ₂ | PM011 | AP011 |
| Chlorine – Free, extended range (DPD XF) | 0 – 10 mg/L Cl ₂ | PM013 | AP013 |
| Chlorine – Free, Combined & Total (DPD 1& 3) | 0 – 5 mg/L Cl ₂ | PM031 | AP031 |
| Chlorine – Free, Combined & Total, extended range (DPD XF & XT) | 0 – 10 mg/L Cl ₂ | PM033 | AP033 |
| Chlorine - Monochloramine (DPD 2, requires DPD 1) | 0 - 5 mg/L Cl ₂ | - | AP021 |
| Chlorine – Total (DPD 4) | 0 – 5 mg/L Cl ₂ | PM041 | AP041 |
| Chlorine – Total (DPD 3 only) | 0 – 5 mg/L Cl ₂ | - | AP031/1 |
| Chlorine – Total, extended range (DPD XT only) | 0 – 10 mg/L Cl ₂ | - | AP033/1 |
| Chlorine HR | 0 – 250 mg/L Cl ₂ | PM162 | AP162 |
| Chlorine Dioxide and Chlorite (DPD method) | 0 – 10 mg/L ClO ₂ | PM052 | AP052 |
| Chlorine Dioxide LR (Lissamine Green B method) | 0 - 2.5 mg/L ClO ₂ | PM064 | AP064 |
| Chlorine Dioxide HR (Lissamine Green B method) | 2.5 - 20 mg/L ClO ₂ | 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 ₃ | PM254 | AP254 |
| Hydrazine | 0 – 0.5 mg/L N ₂ H ₂ | PM103 (30 tests) | AP103 (150 tests) |
| Hydrogen Peroxide LR | 0 – 2 mg/L H ₂ O ₂ | PM104 | AP104 |
| Hydrogen Peroxide HR | 0 – 100 mg/L H ₂ O ₂ | 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 ₄ | PM258 | AP258 (200 tests) |
| Molybdate HR | 0 – 100 mg/L MoO ₄ | 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 ₂ | PM260 | AP260 |
| Organophosphonate (OP) | 0 – 20 mg/L PO ₄ | PM262 | AP262 |
| Ozone (DPD method) | 0 – 2 mg/L O ₃ | PM056 | AP056 |
| pH Phenol Red | pH 6.5 – 8.5 | PM130 | AP130 |
| Phenol (Phenoltest) | 0 – 5 mg/L C ₆ H ₅ OH | PM287 | AP287 (200 tests) |
| PHMB (PHMB-PHOT) | 0 – 100 mg/L active biocide | PM272 | AP272 |
| Phosphate LR | 0 – 4 mg/L PO ₄ | PM177 | AP177 (200 tests) |
| Phosphate HR | 0 – 100 mg/L PO ₄ | PM114 | AP114 |
| Potassium | 0 – 12 mg/L K | PM189 | AP189 |
| Silica | 0 – 4 mg/L SiO ₂ | PM181 | AP181 (200 tests) |
| Silica HR | 0 – 150 mg/L SiO ₂ | PM290 | AP290 (200 tests) |
| Sulfate | 0 – 200 mg/L SO ₄ | PM154 | AP154 |
| Sulfide | 0 – 0.5 mg/L S | PM168 | AP168 (200 tests) |
| Sulfite (Sulfitest) | 0 – 500 mg/L Na ₂ SO ₃ | 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

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) |
|--|-------------------------------|----------------------|
| Chemical Oxygen Demand (COD) Mercury Free for Low Chloride Samples | | |
| COD/150 | 0 – 150 mg/L O ₂ | PL450 |
| COD/400 | 0 – 400 mg/L O ₂ | PL452 |
| COD/1000 | 0 – 1000 mg/L O ₂ | PL453 |
| COD/2000 | 0 – 2000 mg/L O ₂ | PL454 |
| COD/20000 | 0 – 20000 mg/L O ₂ | PL456 |
| Chemical Oxygen Demand (COD) Containing Mercury for Moderate Chloride Samples | | |
| COD/150/M | 0 – 150 mg/L O ₂ | PL460 |
| COD/400/M | 0 – 400 mg/L O ₂ | PL462 |
| COD/1000/M | 0 – 1000 mg/L O ₂ | PL463 |
| COD/2000/M | 0 – 2000 mg/L O ₂ | PL464 |
| COD/20000/M | 0 – 20000 mg/L O ₂ | PL466 |
| Chemical Oxygen Demand (COD) Containing Mercury for High Chloride Samples | | |
| COD/150/2M | 0 – 150 mg/L O ₂ | PL461 |
| COD/1000/2M | 0 – 1000 mg/L O ₂ | PL468 |
| COD/2000/2M | 0 – 2000 mg/L O ₂ | PL465 |
| COD/20000/2M | 0 – 20000 mg/L O ₂ | PL467 |
| Chemical Oxygen Demand (COD) Standard Solutions | | |
| (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) |
|--|---|----------------------|
| Chemical Oxygen Demand (COD) Nutrients | | |
| 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 ₃ | 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 |
| Chemical Oxygen Demand (COD) Heavy Metals | | |
| Chromium VI (Cr ⁶⁺) | 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 ₂ | 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 |
| PT 599 | COD Accessory Set 0 - 20000 mg/L O ₂ | |
| 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 ₂ | PL553 | |
| Dissolved Oxygen 2.0 | 0 – 2.0 mg/L O ₂ | PL503 | |
| Dissolved Oxygen 20 | 0 – 20 mg/L O ₂ | PL513 | |
| Chlorine - Free (equivalent to DPD 1) | 0 – 5 mg/L Cl ₂ | | AT015 |
| Chlorine - Total (equivalent to DPD 3). Use in conjunction with AT 015 | 0 – 5 mg/L Cl ₂ | | AT035 |

Photometer Accessories

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