

9100 UV-Vis Spectrophotometer



Palintest 9100 UV-Vis Spectrophotometer

UV-Vis spectroscopy from Palintest Ltd utilises the full range of formulated applications for drinking water, wastewater and industrial process applications



The Palintest 9100 UV-Vis Spectrophotometer provides the full power of spectroscopic analysis with the convenience of the Palintest range of prepared tablet and liquid reagents. Designed to operate in stand-alone mode or controlled via dedicated software, the Palintest 9100 UV-Vis Spectrophotometer delivers superior technical performance within a compact footprint.

Supplied complete with all required accessories, the spectrophotometer is operating and reporting accurate and reliable data within minutes. The Palintest reagent calibration data is automatically loaded either via the software or the program card/PCMA slot.

Every Palintest 9100 UV-Vis Spectrophotometer is delivered with a full validation ensuring compliance with local standards for GLP. Technical support and training are available either directly from Palintest Ltd or our international network of dedicated distributors.

Palintest Spectrophotometer Software

The Palintest 9100 UV-Vis Spectrophotometer features RS 232 communication to a local pc running the dedicated Palintest Spectrophotometer Software suite.

Offering full remote control of all spectrophotometer functionality, the software includes data manipulation and reporting tools. Setting of parameters for operation of photometric, quantitation, kinetic and spectral modes is simple and intuitive.

Data manipulation such as arithmetic processing, peak picking, spectral overlay and three dimensional graphical representations allow enhanced reporting, either directly from the Palintest Spectrophotometer Software or via a seamless link to other packages such as Microsoft Word/Excel.

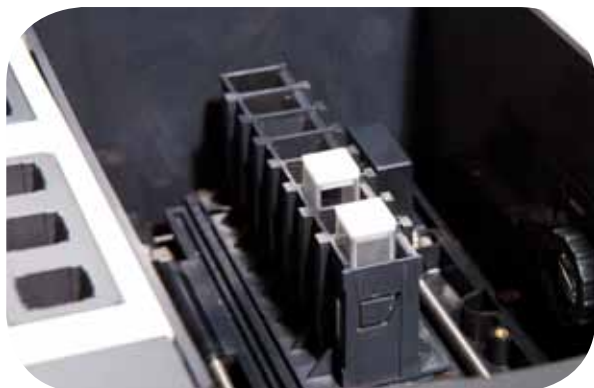
Administration of users including access rights, editing options and a comprehensive log of all actions ensure that the software produced meets the validation requirements of the most demanding audit trail.



Accessories and Reagents

The Palintest 9100 UV-Vis Spectrophotometer is supplied with all accessories required to generate data in minutes. Included in the package are the Motorized 8 Cell Holder, the Fixed Cell Holder, Palintest Spectrophotometer Software disk, Quantitation PCMA Card and additional sundry items such as cuvettes, cells and stopwatch.

The extensive range of Palintest reagents produce high quality results across a wide range of application areas such as drinking water, process water, wastewater and environmental applications.



Reagents

TEST	RANGE (mg/l)	REAGENT REFILL PACKS (50 TESTS)	REAGENT REFILL PACKS (250 TESTS)
Alkalinity Total (Alkaphot™)	0 - 500 CaCO ₃	PM 188	AP 188
Alkalinity M (Alkaphot™ M)	0 - 500 CaCO ₃	PM 250	AP 250
Alkalinity P (Alkaphot™ P)	0 - 500 CaCO ₃	PM 251	AP 251
Aluminium	0.02 - 0.5	PM 166	AP 166
Ammonia	0.01 - 1.0 (N)	PM 152	AP 152
Bromine	0.04 - 10.0	PM 060	AP 060
Calcium Hardness (Calcicol™)	5 - 500 CaCO ₃	PM 252	AP 252
Chloride (Chloridol)	0.4 - 50,000 (NaCl)	PM 268	AP 268
Chlorine DPD No 1	0.01 - 5.0	PM 011	AP 011
Chlorine DPD No 2	0.01 - 5.0	PM 021	AP 021
Chlorine DPD No 1 and 3	0.01 - 5.0	PM 031	AP 031
Chlorine DPD 4	0.01 - 5.0	PM 041	AP 041
Chlorine HR (High Range)	1 - 250	PM 162	AP 162
Chlorine Dioxide (DPD)	0.02 - 10	PM 052	AP 052
Chlorine Dioxide LR (Low Range)	0.03 - 2.5	PM 064	AP 064
Chlorine Dioxide HR (High Range)	0.45 - 20	PM 065	AP 065
Chromium (VI) (Chromicol)	0.02 - 1.0	PM 281	AP 281
Copper (Coppercol) (Free, Combined and Total)	0.03 - 5.0	PM 186	AP 186
Copper (Free)	0.03 - 5.0	-	AP 187
Colour/Turbidity	10 - 500 (Hazen units)	PM 269	-
Cyanuric Acid	2 - 200	PM 087	AP 087
Dissolved Oxygen (0.8/vials)	0.02 - 0.8	PL 553†	-
Dissolved Oxygen (2.0/vials)	0.05 - 2.0	PL 503†	-
Dissolved Oxygen (20/vials)	0 - 20	PL 513†	-
Fluoride	0.1 - 1.5	PM 179	AP 179*
Hardness (Hardicol™)	5 - 500 (CaCO ₃)	PM 254	AP 254
Hydrazine	0.01 - 0.5	PM 103†	AP 103•
Hydrogen Peroxide LR	0.02 - 2.0	PM 104	AP 104
Hydrogen Peroxide HR	1 - 100	PM 105	AP 105
Iron LR	0.01 - 1.0	-	AP 155
Iron MR	0.02 - 5.0	PM 292	AP 292
Iron HR	0.05 - 10	PM 156	AP 156
Magnesium (Magnecol™)	2 - 100	PM 193	AP 193
Manganese	0.001 - 0.03	PM 173	AP 173
Manganese HR	0.01 - 5.0	PM 174	AP 174
Molybdate LR	0.2 - 20	PM 258	AP 258*

Molybdate HR	0.5 - 100	PM 175	AP 175
Nickel (Nickeltest)	0.12 - 10	PM 284	AP 284*
Nitrate (Nitratetest)	0.2 - 20 N	PM 163	AP 163*
Nitrite (Nitricol™)	0.01 - 0.5	PM 109	AP 109
Nitrite (Nitriphot)	10 - 1500 (NaNO ₂)	PM 260	AP 260
Organophosphonate (OP)	0.2 - 20 (PO ₄)	PM 262	AP 262
Ozone	0.01 - 2.0	PM 056	AP 056
pH (Phenol Red)	6.8 - 8.4	PM 130	AP 130
Phenol (Phenoltest)	0.07 - 5.0	PM 287	AP 287*
PHMB	2 - 100	PM 272	AP 272
Phosphate LR	0.03 - 4.0	PM 177	AP 177*
Phosphate HR	1 - 100	PM 114	AP 114
Potassium	0.5 - 12	PM 189	AP 189
Silica LR	0.02 - 4.0	PM 181	AP 181*
Silica HR	0.5 - 150	PM 290	AP 290*
Sulphate	5 - 200	PM 154	AP 154
Sulphide	0.01 - 0.5	PM 168	AP 168*
Sulphite (Sulphitest)	5 - 500 (Na ₂ SO ₃)	PM 266	AP 266
Zinc	0.02 - 4.0	PM 148	AP 148



Tubetests™ - COD, Nutrients and Metals

Ammonia Nitrate and Phosphate Tubetests™

CODE	DESCRIPTION	RANGE (mg/l)	NUMBER OF TESTS
PL 400	Ammonia/12N/50N (Indophenol Method)	0.15 - 12 and 0.7 - 50 mg/l (N)	25
PL 420	Ammonia/15N (Nessler Method)	0.06 - 15 mg/l (N)	25
PL 424	Ammonia/50N (Nessler Method)	0.5 - 50 mg/l (N)	25
PL 425	Ammonia/100N (Nessler Method)	1 - 100 mg/l (N)	25
PL 404	Nitrate/30N	0.3 - 30 mg/l N (or 0 - 150 mg/l NO ₃)	25
PL 408	Total Nitrogen/30N*	0.6 - 30 mg/l N	25
PL 412	Phosphate/12P	0.1 - 12 mg/l P (or 0.3 - 36 mg/l PO ₄)	25
PL 416	Total Phosphorus/12P	0.1 - 12 mg/l P	25

*for use with PL 404

Metals Tubetests™

CODE	DESCRIPTION	RANGE (mg/l)	NUMBER OF TESTS
PL 427	Copper	0.2 - 20 mg/l Cu	25
PL 430	Nickel	0.3 - 20 mg/l Ni	25
PL 434	Iron	0.3 - 25 mg/l Fe	25
PL 442	Zinc	0.1 - 7/0.5 - 35 mg/l Zn	25
PL 436	Total Chromium	0.2 - 10 mg/l Cr	25
PL 440	Hexavalent Chromium (VI)	0.1 - 10 mg/l Cr	25

Chemical Oxygen Demand

CODE	DESCRIPTION (25 tests per carton)	RANGE (mg/l)	NUMBER OF TESTS
PL 450	COD/150 Tubetests™/Mercury Free	5 - 150	25
PL 460	COD/150/M Tubetests™ with Mercury	5 - 150	25
PL 461	COD/150/2M Tubetests™ High Chloride	5 - 150	25
PL 481	COD/150 M/C Tubetests™ with Mercury	5 - 150	25
PL 452	COD/400 Tubetests™/Mercury Free	20 - 400	25
PL 462	COD/400/M Tubetests™ with Mercury	20 - 400	25
PL 453	COD/1000 Tubetests™/Mercury Free	10 - 1,000	25
PL 463	COD/1000/M Tubetests™/Mercury Free	10 - 1,000	25
PL 468	COD/1000/2M Tubetests™/Mercury Free	10 - 1,000	25
PL 484	COD/1,500 M/C Tubetests™ with Mercury	50 - 1,500	25
PL 454	COD/2,000 Tubetests™/Mercury Free	50 - 2,000	25
PL 464	COD/2,000/M Tubetests™ with Mercury	50 - 2,000	25
PL 465	COD/2,000/2M Tubetests™ High Chloride	50 - 2,000	25
PL 486	COD/15,000 M/C Tubetests™ with Mercury	500 - 15,000	25
PL 456	COD/20,000 Tubetests™/Mercury Free	500 - 20,000	25
PL 466	COD/20,000/M Tubetests™ with Mercury	500 - 20,000	25
PL 467	COD/20,000 Tubetests™ High Chloride	500 - 20,000	25



Technical Specifications

Photometric System	Split beam
Wavelength Range	190 – 1100nm
Wavelength Accuracy	±1.0nm
Wavelength Reproducibility	≤ 0.2nm
Spectral Bandwidth	2 nm
Photometric Range	-0.3 – 3.0 Abs; 0 – 200%T
Photometric Accuracy	±0.3%T
Photometric Reproducibility	≤ 0.15%T
Stray Light	≤ 0.05%T
Baseline Flatness	±0.002Abs
Noise	0%T: ±0.005%T 100%T: ≤ 0.15%T
Baseline Stability	<0.001Abs/hr
Light Source	Tungsten lamp, Deuterium lamp
Detector	Silicon photodiode
Interface Options	PC via RS232 interface Multi function instrument keypad PCMA program card
Dimensions	476 x 362 x 225mm
Weight	11kg
Voltage	230V AC

Ordering Information

PT 9100

Palintest 9100 UV-Vis Spectrophotometer Set

Palintest 9100 UV-Vis Spectrophotometer
Motorized 8-cell changer
Fixed cell holder
PCMA program card
RS 232 cable
Palintest Spectrophotometer Software (requires activation code)
Two square cells
Five round cells
Crushing rods
Lint free cloths
Stopwatch
Manuals and validation certificates

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