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## SPECIFICATIONS

DOCUMENT #W17-10

### YSI 9300 and 9500 Photometers

#### Flexible Photometers for the Lab or the Field

Eliminate sample preservation by taking your portable, waterproof instruments to the field to perform the analysis on-site. All reagents are safe and easy to use.

Selecting the desired test has never been easier. Simply navigate among the list of available tests on the screen (favorite tests stay at the top) of the instrument to choose your test and say "OK". The instrument will then walk you through the steps to complete the test. Simple. Convenient. Accurate.



#### Parameters:

- Alkalinity
- Aluminum
- Ammonia
- Bromine
- Hardness
- Chloride
- Chlorine
- Chromium
- Color
- Copper
- Cyanuric Acid
- Dissolved Oxygen
- Fluoride
- Hydrazine
- Hydrogen Peroxide
- Iron
- Magnesium
- Manganese
- Molybdate
- Nickel
- Nitrate
- Nitrite
- Organophosphonate
- Ozone
- pH
- PHMB
- Phenol
- Phosphate
- Potassium
- Silica
- Sulfate
- Sulfide
- Sulfite
- Zinc

#### Features (Model 9300 and 9500):

- Direct-reading concentrations with automatic set up
- Waterproof; IP-67 (floats)
- Large backlit graphic display
- Unique sample tube holder accommodates various diameters
- On-screen instructions
- Multiple languages (English, French, German, Spanish, Italian)
- 100+ test choices on the photometer display

#### Additional Features (Model 9500 only):

- Waterproof USB connection
- Power via USB port
- Internal Memory - 500 sample sets (date and time stamped)
- User-Selectable Options: test units, sample number, dilution factors

**Advanced** software built into the 9500 instrument remembers the most recent tests, making it even quicker to use the next time. Connect to a PC via USB and drag and drop the files to transfer data or update instrument software. In addition, the 9500 allows up to 30 user-defined test methods allowing full flexibility in a range of test methods.

Specifications	
Accuracy	±0.5% at 4% transmittance; ±0.005 at 0.3 AU
Resolution	0.001 AU
Operating Wavelengths	450, 500, 550, 570, 600 and 650 nm
Display	Graphic, backlit LCD with on-screen instructions
Power	3x AA batteries; the 9500 can also be powered via USB
Size (WxLxH)	146 x 275 x 75 mm (5.8 x 10.8 x 3 inches)
Weight	975 g (2 lbs)
Test Cells	Automatic adjustment from 12-20 mm diameter

[YSI.com/photometers](http://YSI.com/photometers)

## 9300/9500 Photometer Ordering Information

Test Kits	Range	Starter (50)	Replace (250)	Sea Water Use	Notes
Alkalinity, Total (Alkaphot)	0-500 (CaCO <sub>3</sub> )	YPM188	YAP188	Satisfactory	
Alkalinity-M (Alkaphot M)	0-500 (CaCO <sub>3</sub> )	YPM250	YAP250	Satisfactory	
Alkalinity-P (Alkaphot P)	0-500 (CaCO <sub>3</sub> )	YPM251	YAP251	Satisfactory	
Aluminum	0-0.5	YPM166	YAP166	Not Suitable <sup>1</sup>	
Ammonia	0-1.0 (N)	YPM152	YAP152	Satisfactory	Sea water conditioner
Bromine	0-10.0	YPM060	YAP060		
Calcium Hardness (Calcicol)	0-500 (CaCO <sub>3</sub> )	YPM252	YAP252	Not Suitable <sup>1</sup>	Dilute sample
Chloride (Chloridol)	0-50,000 (NaCl)	YPM268	YAP268	Satisfactory	Dilute sample
Chlorine DPD 1 (free)	0-5.0	YPM011	YAP011	Satisfactory	
Chlorine DPD 2 (Mono- and Dichloramine; requires YPM031)	0-5.0	YPM021	YAP021	Satisfactory	
Chlorine DPD 1&3 (free, combined and total)	0-5.0	YPM031	YAP031	Satisfactory	
Chlorine DPD 4 (total)	0-5.0	YPM041	YAP041	Satisfactory	
Chlorine HR <sup>3</sup>	0-250	YPM162	YAP162	Not Suitable <sup>1</sup>	
Chlorine Dioxide (DPD)	0-4.0	YPM052	YAP052		
Chlorine Dioxide LR <sup>2</sup>	0-2.5	YPM064	YAP064		
Chlorine Dioxide HR <sup>3</sup>	2.5-20	YPM065	YAP065		
Chromium VI (Hexavalent)	0-1.0	YPM281	YAP281	Satisfactory	
Color (includes turbidity)	10-500	YPM269	N/A		
Copper (Coppercol) (free, combined, total)	0-5.0	YPM186	YAP186	Satisfactory	
Copper (free)	0.03-5.0	N/A	YAP187		
Cyanuric Acid	0-200	YPM087	YAP087		
Dissolved Oxygen	0.02-0.08	YPL553*	N/A		
Dissolved Oxygen	0.05-2.0	YPL503*	N/A		
Fluoride	0-1.5	YPM179	YAP179***		
Hardness (Hardicol)	0-500 (CaCO <sub>3</sub> )	YPM254	YAP254	Satisfactory	Dilute sample
Hydrazine	0-0.5	YPM103*	YAP103**		
Hydrogen Peroxide LR <sup>2</sup>	0-2	YPM104	YAP104		
Hydrogen Peroxide HR <sup>3</sup>	0-100	YPM105	YAP105		
Iron LR <sup>2</sup>	0-1.0	YPM155	YAP155	Satisfactory	
Iron	0-5.0	YPM292	YAP292	Not Suitable <sup>1</sup>	Will develop turbidity
Iron HR <sup>3</sup>	0-10	YPM156	YAP156	Not Suitable <sup>1</sup>	
Magnesium (Magnecol)	0-100	YPM193	YAP193	Not Suitable <sup>1</sup>	Dilute sample
Manganese	0-0.03	YPM173	YAP173		
Molybdate LR <sup>2</sup>	0-20	YPM258	YAP258***	Satisfactory	
Molybdate HR <sup>3</sup>	0-100	YPM175	YAP175	Satisfactory	Turbidity affects blank
Nickel	0-10	YPM284	YAP284***	Not Suitable <sup>1</sup>	Turbidity affects reading
Nitrate	0-20 (N)	YPM163	YAP163***	Satisfactory	Filtration needed
Nitrite (N)	0-0.5 (N)	YPM109	YAP109		
Nitrite (NaNO <sub>2</sub> )	0-1500 (NaNO <sub>2</sub> )	YPM260	YAP260		
Organophosphonate (OP)	0-20 (PO <sub>4</sub> )	YPM262	YAP262		
Ozone	0-2.0	YPM056	YAP056		
pH (phenol red)	6.8-8.4	YPM130	YAP130	Satisfactory	
PHMB	2-100	YPM272	YAP272		
Phenol	0-5.0	YPM287	YAP287***		
Phosphate LR <sup>2</sup>	0-4.0	YPM177	YAP177***	Satisfactory	
Phosphate HR <sup>3</sup>	0-100	YPM114	YAP114	Satisfactory	
Potassium	0-12	YPM189	YAP189	Satisfactory	
Silica	0-4.0	YPM181	YAP181***		
Silica HR <sup>3</sup>	0-150	YPM290	YAP290***		
Sulfate	0-200	YPM154	YAP154	Satisfactory	
Sulfide	0-0.5	YPM168	YAP168***	Satisfactory	
Sulfite	0-500 (Na <sub>2</sub> SO <sub>3</sub> )	YPM266	YAP266		
Zinc	0-4.0	YPM148	YAP148	Not suitable <sup>1</sup>	Test colors are too weak

\*Includes 30 tests \*\*Includes 150 tests \*\*\*Includes 200 tests

<sup>1</sup> Sample may be diluted to lower salt content to help avoid precipitate that can interfere with testing. Results may vary. <sup>2</sup> LR denotes low range <sup>3</sup> HR denotes high range

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