

## Portable Water Quality Analyzer



1. The instrument adopts an integrated dual-zone control system for digestion and testing, and adopts 7.6-inch and 5.6-inch large touch screens. The interface is easy and intuitive to operate.
2. The instrument is moderate in size and easy to carry. It can measure various water parameters such as COD, ammonia nitrogen, total phosphorus, total nitrogen, turbidity, color, suspended solids and heavy metal ions, and it can measure pH, DO and Conductivity with electrodes. The concentration can be read directly without conversion, and the measurement results are more accurate.
3. The instrument is equipped with a super-large-capacity lithium battery and an advanced power charging system. With fast charging, the instrument can sustain power supply for up to 12 hours.
4. The instrument is powered by an external power supply and a lithium battery. The two power supply modes switch between each other to ensure the safety of the instrument's power supply and the stable operation of the instrument.
5. It has large-capacity storage function and built-in curves. Customers can use it directly without creating additional curves. At the same time, customers are supported to create their own curves, the number of curves can reach 200, and more than 5,000 experimental data can be stored for users to view freely.
6. The instrument comes with a power-off data protection function to ensure the timeliness and accuracy of customer data.
7. Using cold light source, narrow-band interference technology, the light source life is up to 10W hours, and the unique high-precision filter system makes the instrument more stable and the

measurement accuracy higher.

8. With the new ARM9 chip, the instrument is more responsive and has a larger capacity of up to 500M memory.

9. The instrument comes with a built-in printing function, including test time and parameter label data, ensuring the timeliness of customer data at all times.

10. It can be used with Lab-yy prefabricated tube reagents, which has a longer shelf life. There is no need to prepare it yourself and put it into the instrument for direct reading. The experimental steps are greatly reduced, which is safe and trouble-free. The measurement is easier and the data is more accurate.

11. With a built-in 4 position thermo reactor

The instrument is equipped with various pipettes and accessory spare parts as standard according to customer needs, perfectly integrating the experimental operation and testing process.

### Technical parameters

Indication Error	≤8%
Repeatability	≤±5%
Spectral stability	≤0.001A/10min
Lamp Service Life	100 000 hours
Measure time	10minutes
Curves	200 groups
Storage	Can save 5000 groups
Colorimetric method	colorimetric tube
Screen	7.0/5.6" color touch screen
Printer	Built-in thermal printer
Weight	15kg
Interface	USB Port
Ambient	5~40℃
	Humidity≤85 (No condensation)
Power Supply	AC220V±10%/50Hz
Rated power	300W

Measured Items	Range	Method
COD	Low concentration: 5-100mg/L High concentration: 100-10000mg/L	Rapid digestion spectrophotometry
permanganate index	0-10mg/L	Potassium permanganate oxidation spectrophotometry
Ammonia nitrogen	0.05-30mg/L	Nessler's reagent spectrophotometry
Total phosphorus	0.01-20mg/L	Molybdate spectrophotometry

Total nitrogen	0-25mg/L	Chromotropic Acid Spectrophotometry
Suspended solids	5-100mg/L 100-1000mg/L	direct colorimetry
Residual chlorine	0-15mg/L (segments)	DPD Spectrophotometry
Total chlorine	0-30mg/L(segments)	
carbon dioxide	0.05-30mg/L(segments)	
air formaldehyde	0.05-1.50mg/m <sup>3</sup>	Phenol Reagent Spectrophotometry
Formaldehyde in water	0.05-10mg/L	Chromotropic Acid Spectrophotometry
Textile formaldehyde	0.2-30mg/kg ( segments )	Acetylacetone spectrophotometry
Turbidity	0.5-10/10-100 100-1000(NTU)	Formazine spectrophotometry
Chroma	0.05-500(PCU)	Platinum cobalt colorimetry
Heavy metal hexavalent chromium	0.0- 10mg/L(segments)	diphenylcarbazide spectrophotometry
nitrite	0.1-0.2mg/L	Naphthylethylenediamine hydrochloride spectrophotometry
nitrite nitrogen	0.01-0.2mg/L	Naphthylethylenediamine hydrochloride spectrophotometry
Nitrate nitrogen	0.5-10.00mg/L	Phenol disulfonic acid photometry
Nitrate	0.5-10.00mg/L	Phenol disulfonic acid photometry
Sulfate	5-100mg/L	Barium chromate spectrophotometry
Phosphate	0.05-20mg/L(segments)	Molybdate spectrophotometry
iron ions	0.05-3.00mg/L	o-phenanthroline spectrophotometry
Copper Ion	0.05-3.00mg/L	Sodium dihexylthiocarbamate spectrophotometry
Lead	0.05-4.00mg/L	Xylenol Orange Spectrophotometry
cyanide	0.0-1.0mg/L	Isonicotinic acid-barbituric acid spectrophotometry
arsenic	0.05-3.00mg/L	Arsenic Antimony Molybdenum Blue

		Photometry
aluminum	0.01-1.0mg/L	Aluminum Reagent Spectrophotometry
zinc	0.01-5.0mg/L	Zinc reagent spectrophotometry
manganese	0.05 - 5.00mg/L	Potassium periodate spectrophotometry
Heavy metal cadmium	0.05-1.00mg/L	Cadmium Reagent Spectrophotometry
Heavy metal nickel	0.05 - 5.00mg/L	Diacetyl oxime spectrophotometry
sulfide	0.0-1.0mg/L	Methylene blue spectrophotometry
Volatile phenol	0.1 - 3.0mg/L	4-Aminoantipyrine Spectrophotometer
chloride	0.01-5.0mg/L	silver salt photometry
Fluoride	0- 2.0mg/L	Fluorine Reagent Spectrophotometer
Hardness	0.5-50mg/L segments	Acid Chromium Lanthanum K Spectrophotometry