

MULTI PARAMETER

PORTABLE MULTI WAVELENGTH COLORIMETER - IPM3008

Liquid Analysis

Measurement & Monitoring



DESCRIPTION

The IPM3008 portable multiparameter colorimeter is designed for field testing of a variety of parameters such as such as CODcr, ammonia nitrogen, total phosphorus, total nitrogen, residual chlorine, chlorine dioxide, total chlorine, etc. It eliminates the need of repetitive pipetting, reagent configuration, calibration curve and other complex operations. The handheld device is suitable for indoors and outdoors water quality testing. It is widely used in scientific research, universities, laboratory, sewage treatment plants, water treatment, water environment services, etc.

TECHNICAL FEATURES

FEATURES

- ✓ Ideal for laboratory and field testing
- ✓ Wavelength: 420nm, 520nm, 610nm, 850nm
- ✓ Portable and convenient
- ✓ Lightweight and user friendly
- ✓ 3.5" LCD display
- ✓ Micro USB interface
- ✓ 16G storage
- ✓ IP66 protection rating

Stability	≤0.001 Abs/hour
Range	±2.0 Abs
Accuracy	0.003 Abs
Repeatability	0.001 Abs
Wavelength	420nm, 520nm, 610nm, 850nm
Device Material	ABS+PC
Screen Display	3.5-inch LCD display
Storage Temperature	-15 to 60°C
Ambient Humidity	0 to 90% (no condensation)
Operating Temperature	0 to 45°C
Power Supply	4 AA alkaline batteries, capacity 2000mah
Number of Curves	Standard pre-programmed methods 10 user-defined methods
Data Interface	Micro USB
Protection	IP66
Data Storage	16G
Device Weight	610g
Device Dimensions	233.5mm x 106mm x 52mm

I-SYSTEM MEASUREMENT
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03-2025 I-SYSTEM 511006

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PARAMETER LIST

	Parameter & Measuring Range (mg/L)	Device IMP308	Wavelength (nm)	Reagent Part Number	Notes
1	COD	ULR (0.7-40) mg/L	✕	PBS-LCOD0.740-150	Prefabricated reagent tubes, standard ϕ 16mm prefabricated reagent tube adapter COD: 165°C, 20 min or 150°C, 120 min CODmn: 100°C, 30 min
		LR (3-150) mg/L	•	420nm PBS-LCOD3150-25 PBS-LCOD3150-150	
		MR (10-400) mg/L	•	420nm PBS-LCOD10400-150	
		HR (20-1500) mg/L	•	610nm PBS-LCOD201500-25 PBS-LCOD201500-150	
		UHR (200-20000) mg/L	•	610nm PBS-LCOD20020000-150	
2	CODmn	Alkaline method (0.5-4.5) mg/L	•	520nm PBS-LCODmn0.54.5-50	
3	Ammonia Nitrogen	LR (0.02-2.5) mg/L	•	610nm PBS-LNH40.022.5-50	Prefabricated reagent tubes, standard ϕ 16mm prefabricated reagent tube adapter No digestion required
		HR (0.4-50) mg/L	•	610nm PBS-LNH40.450-50	
4	Ammonia Nitrogen (salicylic acid)	(0.01-0.5) mg/L	•	610nm PBS-LNH40.010.5-50	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
5	Ammonia Nitrogen (NESS)	(0.02-2.5) mg/L	•	420nm PBS-LNH40.022.5-100-NS	Bottle, photometer comes standard with ϕ 25mm colorimetric tube adapter
6	Total Phosphorus	LR (0.02-1.0) mg/L	•	850nm PBS-LTP0.021-50	Prefabricated reagent tubes, standard ϕ 16mm prefabricated reagent tube adapter TP: 150°C, 30 min TN: 120°C, 30 min
		HR (1-30) mg/L by P HR(1-100) mg/L Calculated in terms of phosphate, equivalent to the former	•	420nm PBS-LTP1100-50	
7	Total Nitrogen	LR (0.5-25) mg/L	•	420nm PBS-LTN0.525-50	
		HR (2-150) mg/L	•	420nm PBS-LTN2150-50	
8	Residual Chlorine	(0-5) mg/L	•	520nm PBS-LCL0.022-100	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter; The colorimeter comes standard with ϕ 16mm colorimetric tube adapter
9	Total chlorine	(0-5) mg/L	•	520nm PBS-LTCL0.022-100	
10	Chlorine Dioxide	(0-5) mg/L	•	520nm PBS-LCLO25-100	



PARAMETER LIST (CONT.)

	Parameter & Measuring Range (mg/L)	Device IMP308	Wavelength (nm)	Reagent Part Number	Notes	
11	Nitrates	LR (0.05-0.7) mg/L	•	520nm	PBS-LNO3N0.050.7-100	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter It needs to be used with a centrifuge, otherwise the measured value will be too low
		HR (0.2-30) mg/L	•	420nm	PBS-LNO3N0.230-50	Prefabricated reagent tubes, standard ϕ 16mm prefabricated reagent tube adapter
12	Phosphates	LR (0.05-0.6) mg/L	✘		PBS-LPO40.050.6-50	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
		HR (1-15) mg/L	•	420nm	PBS-LPO4115-100	Bottle, photometer comes standard with ϕ 25mm colorimetric tube adapter
13	Sulfates	(2-70) mg/L	•	520nm	PBS-LSO4270-100	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
14	Nitrites	(0.001-0.3) mg/L	•	520nm	PBS-LNO2N0.0010.3-100	
15	Silicates	(0.04-1.6) mg/L	•	850nm	PBS-LSIO20.041.6-50	Bottle+powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
16	Metasilicic Acid	(2-100) mg/L	✘		PBS-LH2SiO32100-50	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
17	Total Hardness CP	LR (0.5-10) mg/L	•	520nm	PBS-LTHD0.510-100	Bottle, photometer comes standard with ϕ 25mm colorimetric tube adapter
		HR (5-500) mg/L	✘		PBS-LTHD5500-100	
18	Chloride	(0.1-25) mg/L	•	520nm	PBS-LCL0.125-100	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter



PARAMETER LIST (CONT.)

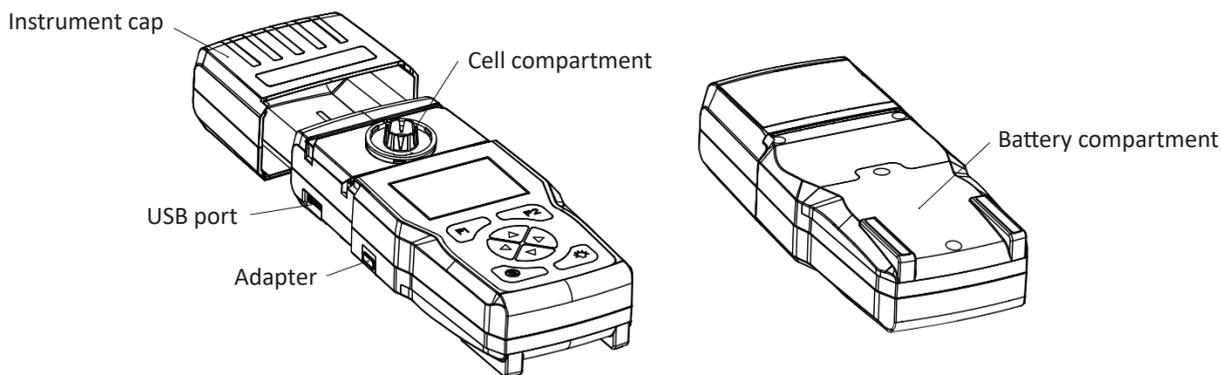
	Parameter & Measuring Range (mg/L)	Device IMP308	Wavelength (nm)	Reagent Part Number	Notes
19	Hydrogen Peroxide LR (0.01-1) mg/L	•	520nm	PBS-LH2O20.011-100	Bottle+powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
	HR (0.2-40) mg/L	•	420nm	PBS-LH2O20.240-50	Bottle, photometer comes standard with ϕ 25mm colorimetric tube adapter
20	Formaldehyde (3-500) μ g/L	•	610nm	PBS-LCH2O3500 μ -50	Bottle+powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
21	Volatile Phenol (0.05-5) mg/L	•	520nm	PBS-LC6H5OH0.055-100	
22	Ozone (0.01-2.5) mg/L	•	520nm	PBS-LO30.012.5-100	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
23	Copper LR (1-210) μ g/L	•	420nm	PBS-LCu1210 μ -100	
	HR (0.04-5) mg/L	•	520nm	PBS-LCu0.045-100	
24	Ozone LR (10-100) μ g/L	✘		PBS-LMn10100 μ -100	Bottle+powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
	HR (0.1-20.00) mg/L	•	520nm	PBS-LMn0.120-100	Bottle, photometer comes standard with ϕ 25mm colorimetric tube adapter
25	Total Iron O-phen (0.02-3.00) mg/L	•	520nm	PBS-LTFe0.023-100	
26	Total Iron Ferrozine (0.009-1.4) mg/L	•	520nm	PBS-LTFe0.0091.4-100	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
27	Ferrous O-phen (0.02-3.00) mg/L	•	520nm	PBS-LFe0.023-100	
28	Total Chromium (0.01-0.7) mg/L	•	520nm	PBS-LTCr0.010.7-50	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
29	Hexavalent Chromium (0.01-0.7) mg/L	•	520nm	PBS-LCr60.010.7-100	Recommended water temperature: 25°C
30	Zinc (0.02-3) mg/L	✘		PBS-LZn0.023-50	
31	Aluminum (0.002-0.2) mg/L	✘		PBS-LAl0.0020.2-50	
32	Cobalt (0.01-2) mg/L	•	610nm	PBS-LCo0.012-50	Powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter



PARAMETER LIST (CONT.)

	Parameter & Measuring Range (mg/L)	Device IMP308	Wavelength (nm)	Reagent Part Number	Notes
33	Nickel (0.006-1) mg/L	×		PBS-LNi0.0061-50	Bottle+powder pack, photometer comes standard with ϕ 25mm colorimetric tube adapter
34	pH (6.5-8.5)	•	520nm	PBS-LPH6.58.5-100	Bottle, photometer comes standard with ϕ 25mm colorimetric tube adapter
35	Color (1-500) ^o C	×		No reagents required	Platinum cobalt standard solution or chromium cobalt standard solution, photometer comes Standard with ϕ 25mm colorimetric tube adapter
	(1-500) ^o C	×			
36	Total Nitrogen UV (0.05-15.00) mg/L	×		PBS-LTN0.0515-50-UV	UV Ultraviolet Method Bottle+Powder Pack, 1cm quartz cuvette adapter included TN-UV: 150 ^o C, Digestion 30min

DIMENSION/DRAWING



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