

便携式多参数水质测定仪 portable water quality multiparameter analyzer LH-P700(E)

(support either adapter or rechargeable lithium battery for power.)



仪器简介 Instrument introduction

内置 60 种水质指标检测模式，可测定 COD、氨氮、总磷、总氮、浊度、色度、悬浮物等水质指标。

Built in 60 kinds of water quality indicator detection modes, it can measure water quality indicators such as COD, ammonia nitrogen, total phosphorus, total nitrogen, turbidity, chromaticity, suspended solids, etc.

功能特点 Functional characteristic

- 1, 安卓智能水质检测系统：更流畅的交互体验，运行稳定可拓展性强；
1, Android intelligent water quality detection system: smoother interactive experience, stable operation and strong scalability;
- 2, 360°旋转比色：支持 $\phi 16/25\text{mm}$ 旋转管比色，有效降低干扰因素，稳定性 10 倍提升；
2, 360 ° rotation colorimetric: supported $\phi 16/25\text{mm}$ rotating tube colorimetric, effectively reducing interference factor and improving stability by 10 times;
- 3, 数据智能整理分析：仪器支持数据筛选、分析，生成周/月数据曲线图；
3, Intelligent data sorting and analysis: The instrument supports data filtering and analysis, and generates weekly/monthly data graphs;
- 4, 管理员权限设定：内置管理员，自行设置使用人员权限，便于管理、保障数据安全；
4, Administrator permission setting: built-in administrator, self setting user permissions for easy management and ensuring data security;

5, 标准曲线制定与校正: 支持系数曲线和样品曲线的自定义标定, 符合监管机构、科研院所等应用需求;

5, Standard curve development and calibration: Support customized calibration of coefficient curves and sample curves, in line with the application needs of regulatory agencies, research institutions, and other institutions;

6, 智能物联网管理: 数据可上传连华云或接入用户数据库;

6, Intelligent Internet of Things management: Data can be uploaded to Lianhua Cloud or connected to user databases;

7, 现场拍照: 支持现场拍照, 可关联检测数据;

7, On site photography: supports on-site photography and can be associated with detection data;

8, 超限预警提示: 支持设定指标限制设置, 超标直观显示。

8, Warning prompt for exceeding the limit: supports setting indicator limits, and visually displays exceeding the limit.

性能参数 performance parameter

仪器名称 Instrument Name	便携式多参数水质测定仪 Portable multi-parameter water quality measuring instrument			
Model No.	LH-P700(E)			
Test item	COD	ammonia	Total phosphorus	Total nitrogen
Test range	(0-15000) mg/L	(0-160) mg/L	(0-100) mg/L	(0-150) mg/L
Curve qty	600 pcs			
Value error	$\leq \pm 5\%$; other item $\leq 10\%$			
repeatability	$\leq 3\%$			
Way of get result	16mm/25mm Colorimetric round tube			
resolution ratio	0.001Abs			
display screen	5-inch 720 * 1280mm touch screen			
Store data	50 million pcs			
Battery capacity	5V 7000mAh			
Charging method	AC 220V			

Printer	External Bluetooth printer (optional)		
Weight of host	0.7Kg		
Size of host	(235*95*83) mm		
Weight of portable box	13.5Kg		
Portable case size	(560*430*280) mm		
ambient temperature	(5-40) °C		
ambient humidity	≤85%RH (No condensation)		
Digester parameter			
temperature range	Room temperature-19 0℃	Value accuracy	±2℃
Temperature field uniformity	±2℃	Wells of position	6
display screen	3.5 inch	Digestion mode	9 pcs
timing accuracy	0.2 Second/hour	time range	1-600 min
Power supply mode	AC 220V/ lithium battery (optional)	rated power	90W
Battery capacity	24V/12.8AH		

Measuring Item

No.	Items name	Test method	Test range (mg/L)
01	COD	Rapid digestion spectrophotometry	0-15000
02	Permanganate index	Potassium permanganate oxidation spectrophotometry	0.3-5
03	Ammonia nitrogen - Nessler's	Nessler's reagent spectrophotometry	0-160 (segmented)
04	Ammonia nitrogen salicylic acid	Salicylic acid spectrophotometry	0.02-50
05	Total phosphorus ammonium	Ammonium molybdate spectrophotometric method	0-12 (segmented)

	molybdate		d)
06	Total phosphorus vanadium molybdenum yellow	Vanadium molybdenum yellow spectrophotometric method	2-100
07	total nitrogen	Chromotropic acid spectrophotometry	1-150
08	turbidity	Formazine spectrophotometric method	0-400NTU
09	chroma	Platinum cobalt color series	0-500Hazen
10	Suspended solid	Direct colorimetric method	0-1000
11	copper	BCA photometry	0.02-50
12	iron	Phenanthroline spectrophotometric method	0.01-50
13	nickel	Dimethylglyoxime spectrophotometric method	0.1-40
14	hexavalent chromium	Diphenylcarbazide spectrophotometric method	0.01-10
15	total chromium	Diphenylcarbazide spectrophotometric method	0.01-10
16	lead	Xylenol orange spectrophotometric method	0.05-50
17	zinc	Zinc reagent spectrophotometry	0.1-10
18	cadmium	Dithizone spectrophotometric method	0.1-5
19	manganese	Potassium periodate spectrophotometric method	0.01-50
20	silver	Cadmium reagent 2B spectrophotometry	0.01-8
21	antimony	5-Br-PADAP spectrophotometry	0.05-12
22	cobalt	5-Chloro-2- (pyridylazo) -1,3-diaminobenzene spectrophotometric method	0.05-20
23	nitrate nitrogen	Chromotropic acid spectrophotometry	0.05-250
24	Nitrite nitrogen	Naphthyl ethylenediamine hydrochloride spectrophotometric method	0.01-6
25	sulfide	methylene blue spectrophotometry	0.02-20
26	sulfate	Barium chromate spectrophotometric method	5-2500
27	phosphate	Ammonium molybdate	0-25

		spectrophotometric method	
28	fluoride	Fluorine reagent spectrophotometry	0.01-12
29	cyanide	Barbituric acid spectrophotometry	0.004-5
30	Free chlorine	N. N-diethyl-1.4 phenylenediamine spectrophotometric method	0.1-15
31	total chlorine	N.N-diethyl-1.4 phenylenediamine spectrophotometric method	0.1-15
32	chlorine dioxide	DPD spectrophotometry	0.1-50
33	ozone	Indigo spectrophotometry	0.01-1.25
34	silica	Silicon molybdenum blue spectrophotometry	0.05-40
35	formaldehyde	Acetylacetone spectrophotometric method	0.05-50
36	aniline	Naphthyl ethylenediamine hydrochloride azo spectrophotometric method	0.03-20
37	nitrobenzene	Determination of total nitro compounds by spectrophotometry	0.05-25
38	Volatile phenol	4-Aminoantipyrine spectrophotometric method	0.01-25
39	Anionic surfactants	Methylene blue spectrophotometry	0.05-20
40	Unsymmetrical dimethylhydrazine	Sodium aminoferrocyanide spectrophotometric method	0.05-20
41	Hydrazine (hydrazine)	Dimethylaminobenzaldehyde spectrophotometric method	0.005-10
42	Methyl hydrazine	Dimethylaminobenzaldehyde spectrophotometric method	0.015-25
43	Total alkalinity	Methyl orange spectrophotometric method	20-400
44	Magnesium hardness	Calcium magnesium reagent spectrophotometric method	0.1-80
45	Calcium hardness	Calcium magnesium reagent spectrophotometric method	0.1-80
46	Total iron	Phenanthroline spectrophotometric method	0.2-100

47	Volatile fatty acids	Esterification spectrophotometry	20-3600
48	chloride	Mercury thiocyanate high-speed iron spectrophotometric method	0.1-25
49	Molybdate	Determination of molybdate content in industrial circulating cooling water - thiocyanate spectrophotometric method	0.6-50
50	Aluminum	Standard test methods for drinking water, Part 6: Metallic and non-metallic indicators	0.01-0.5
51	Cyanuric acid	Determination of Cyanuric Acid in Swimming Pool Water: Turbidity Method	1.45-50
52	urea	Diacetyl oxime thiosemicarbazide spectrophotometric method	0.2-6
53	Total Titanium	Diantipyrylmethane spectrophotometric method	0.01-5
54	titanium	Diantipyrylmethane spectrophotometric method	0.01-5