Protable Multi-Parameter Water Quality Analyzer



Introduction:

This instrument features stable performance, a clear display, rapid measurement, and easy operation. It allows direct determination of multiple water quality parameters, such as COD, ammonia nitrogen, total phosphorus, turbidity, color, hexavalent chromium, total chromium, and nitrite nitrogen. Widely applied in environmental protection, scientific research, and production monitoring, it is an ideal instrument for environmental monitoring and control.

Features:

* Integrated portable design: The detector and carrying case are integrated for easy transport and rapid measurement, making it ideal for on-site field testing and mobile water quality monitoring stations.
* Advanced multi-method integration: Based on the latest national standards and improved methods, it integrates photometric, electrode, and titration methods using state-of-the-art hardware and software. A single instrument can test nearly 100 water quality parameters, providing exceptional convenience.
* Long-life light source: Utilizes long-life LEDs with pulse power supply, offering a lifespan of up to 100,000 hours and superior light source stability.
* Robust colorimetric system: Features an integrated photoelectric sensor design with no moving parts, significantly enhancing shock and moisture resistance.
* Built-in rapid testing programs: Includes built-in photometric calibration curves and titration calculation programs. Standard solutions are not required, allowing for direct and rapid water sample testing.
* Built-in digestion module: Enables direct on-board sample digestion without the need for an external digester, further enhancing portability.
* 7-inch high-end color touchscreen: Displays tested parameters, absorbance values, and concentration values directly, providing comprehensive information.
* Icon-based interface: Features a touch-based human-machine interaction with a friendly, simple interface for fast and convenient operation.
* Versatile sample compartment: Accommodates both square cuvettes of various path lengths and round colorimetric tubes, meeting diverse testing requirements.
* Efficient dedicated reagents: Uses dedicated testing reagents to drastically reduce reagent preparation time, resulting in higher testing efficiency and simpler operation.
* Precise clock and massive storage: Equipped with a precise clock memory chip. It allows system time setting, stores up to 10,000 data sets, and supports data statistical analysis.
* Expandable curve storage: Provides space for 230 calibration curves with support for manual modification, automatic calibration, or fitting, facilitating user expansion of testing parameters.
* Built-in thermal printer: Includes a built-in micro thermal line printer for rapid printing of test results and convenient data retention.
* Data connectivity: Equipped with a data interface and optional professional PC software. Users can input sample names, test items, and testing institution information. Supports exporting reports in TXT or EXCEL formats, and enables report printing via an external printing system.

Technical Parameters:

Model	BK-WQA
Optical Stability	≤0.005A/h
Measurement Error	≤±5% or ±10%
Repeatability Error	≤±3%
Sample Compartment	Multi-function colorimetric cell
Light Source Lifespan	≥100,000 hours
Storage Capacity	10,000 data sets
Number of Curves	More than 80
Display	7-inch full-color touch LCD screen
Printing	Thermal line printing
Communication Interface	Standard RS232
Operation Mode	Icon-based touchscreen human-machine interaction
Digestion Positions	4 positions
Power Supply	AC 220V, 50/60Hz(Standard); 110V, 50/60Hz(Optional)
Standard Accessories	Printer, RS232, square cuvette(10mm*4, 30mm*4), test software
Optional Accessories	PC software
Optional Items	Residual chlorine, total chlorine, ozone, nitrite nitrogen, ammonia nitrogen, turbidity, total phosphorus, hexavalent chromium, sulfide, COD, fluoride, etc.
External Size(W*D*H)	360*270*170mm
Package Size(W*D*H)	450*350*350mm
Net Weight	5.5kg
Gross Weight	7kg