

# Multi-Parameter Water Quality Analyzer

Model: KWC-150

Product Datasheet



## 1. Product Overview

Using UVC-LED and RGB-LED light sources, this analyzer measures COD/DOC via UV254 absorbance, and accurately determines phosphate, residual chlorine, and ammonia nitrogen via ammonium molybdate, DPD, and Nessler reagent colorimetric methods.

## Key Features

- Sensitive and stable UV signal detection
- Multi-wavelength UVC-LED source, instant-on (no warm-up)
- Lightweight and portable — adapts to multiple scenarios
- Fast screening of dissolved organic matter
- One-stop multi-parameter coverage
- Dual-method integration ensures accuracy

## 2. Technical Specifications

| Parameter                                     | Specification                                           |
|-----------------------------------------------|---------------------------------------------------------|
| Measurement                                   | COD, Ammonia N, Turbidity, Phosphate, Residual Chlorine |
| COD Range / Res.                              | 0-250 mg/L / 0.1 mg/L                                   |
| NH <sub>4</sub> <sup>+</sup> -N Range / Res.  | 0.00-5.00 mg/L / 0.01 mg/L                              |
| PO <sub>4</sub> <sup>3-</sup> -P Range / Res. | 0.00-1.00 mg/L / 0.01 mg/L                              |
| Turbidity Range / Res.                        | 0.0-200 NTU / 0.1 NTU                                   |
| Residual Cl Range / Res.                      | 0.00-5.00 mg/L / 0.01 mg/L                              |
| Weight / Material                             | ~365 g / ABS Plastic                                    |
| Display                                       | 2.4" TFT LCD, 240×320 RGB                               |
| Dimensions                                    | 194 × 92 × 56 mm (L×W×H)                                |
| Protection Grade                              | IP65                                                    |
| Power Consumption                             | ~600 mW                                                 |
| Power Supply                                  | Built-in Li-ion battery, Type-C charging, auto-off      |
| Operating Conditions                          | 10 to 45 °C, RH ≤ 80% (non-condensing)                  |
| Accessories                                   | 10 mm quartz cuvette (default)                          |

Note: All technical parameters are tested under laboratory standard solution conditions. Recommended sample water A275 < 0.500, A230 < 0.100.

Specifications may vary by product configuration.

## 3. Applications

- Drinking Water
- Surface Water
- Domestic Sewage
- Industrial Wastewater

## 4. Ordering Information

| Order Code | Model   | Measured Parameters                                                 |
|------------|---------|---------------------------------------------------------------------|
| KWC-150    | KWC-150 | COD, NH <sub>4</sub> -N, PO <sub>4</sub> -P, Turbidity, Residual Cl |

Note: Include a 10mm quartz cuvette. Factory calibration with on-site water sample available upon request.

## 5. Contact Us

| Company | Xi'an Kacise Technology Co., Ltd.                    |
|---------|------------------------------------------------------|
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