

Specifications

Operating Parameters

Measuring Range (Blood)		Sample Type	Measuring temperature
Na ⁺ : 20~250 mmol/L		Whole blood, Plasma, Serum, Urine	37.0±0.2 °C
K ⁺ : 0.5~20.0 mmol/L		Sample Volume	Measuring method
Cl ⁻ : 20~250 mmol/L		60 µL	Electrochemistry (Direct ISE)
Ca ²⁺ : 0.25~5.00 mmol/L		Sample introduction	Calibration
		Aspiration	Automatic 1-2-point calibration Manual calibration is available if necessary
Measuring Range (Urine)		Sample container	Temperature / Relative humidity
Na ⁺ : 10~400 mmol/L		Tube, Syringe, Capillary	15~35 °C / 5~85 %
K ⁺ : 1.0~120.0 mmol/L		Sample Analysis Time	
Cl ⁻ : 10~400 mmol/L		35 seconds	
Ca ²⁺ : Not available			

Cartridge

Test Panel Options

• i-Smart 30 PRO Cartridge E4

Na⁺, K⁺, Cl⁻, Ca²⁺

• i-Smart 30 PRO Cartridge

Na⁺, K⁺, Cl⁻



Instrument & Connectivity

Computer	Display	Dimensions / Weight
1.1 GHz dual core processor RAM 4GB, SSD 32GB storage	7 inch TFT LCD touch screen wide view angle	256(W) x 292(H) x 177(D) mm 5.5 kg (accessories excluded)
Operating System	Printer	System Connectivity
Microsoft® Windows® IoT 10 Enterprise	2 Inch thermal printer (built-in)	Bidirectional LIS/HIS communication

Power Interface

Voltage	Power Adaptor	Interface
100~240 Va.c.	Input: AC-DC power supplies Output: +24 Vd.c., Max. 2.7A, 65W	• 3 x USB 3.0 • Serial port (RS-232) • Ethernet port (RJ45) • HDMI interface (external display)
Frequency	Battery Operation	
50/60 Hz (±10%)	Max. 2 hours (Li ion cells)	

i-Smart 30 PRO

Electrolyte Analyzer – Next Generation

Smart and Convenient



iSmart 30 PRO

Electrolyte Analyzer – Next Generation

- Measures Na⁺, K⁺, Cl⁻ and Ca²⁺ concentrations with 60 µL of blood or urine.
- Reports patient results in 35 seconds.
- Maintenance free cartridge and easy to use.
- Upgraded hardware allows stable performance.
- Reliable QC management with L-J chart.
- Operates on battery for max. two hours without being plugged in.



Maintenance Free Cartridge

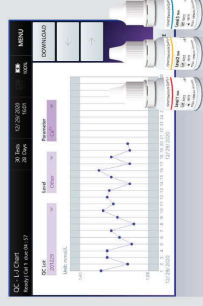
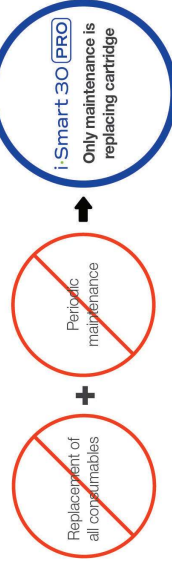
- All-in-one cartridge contains all reagents & consumables.
- Only required maintenance is replacing cartridge.
- Reduces expense & increases profit.

*Available to get 4 parameters' test results (Na⁺, K⁺, Cl⁻, Ca²⁺) by one test.

Available cartridge types:

- 50 Samples / 4 weeks
- 100 Samples / 4 weeks
- 200 Samples / 4 weeks
- 300 Samples / 4 weeks

Key advantage against other brands



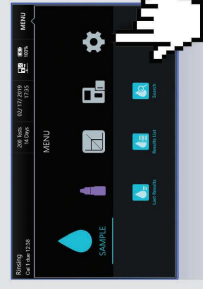
Reliable QC Management with L-J Chart

- Easy to check reliable performance with i-Smart electrolyte QC (3levels).
- Easy QC management and enhanced monitoring of QC results with L-J chart.



No Dilution Convenient Urine Test

- Wide K⁺ sensor detection allows for urine sample test without dilution.
- No pre-treatment decreases test procedures and user errors.



Easy to Use

- Simple operation steps & User-friendly interface.
- Easy network interface set up to LIS/HIS.



Powerful Hardware with Smart Software

- Allow better performance stability with improved CPU & Window® 10 OS.
- Equipped with abundant memory space.
- Enhanced usability with intuitive GUI & Touch screen.

Operation on Battery

- Operates on battery for a max of 2 hours.
- Can operate during a blackout.