

i·Smart 30 PRO

Electrolyte Analyzer – Next Generation

Specifications**Operating Parameters****Measuring Range (Blood)**

Na⁺ : 20~250 mmol/L
 K⁺ : 0.5~20.0 mmol/L
 Cl⁻ : 20~250 mmol/L
 Ca²⁺ : 0.25~5.00 mmol/L

Measuring Range (Urine)

Na⁺ : 10~400 mmol/L
 K⁺ : 1.0~120.0 mmol/L
 Cl⁻ : 10~400 mmol/L
 Ca²⁺ : Not available

Sample Type

Whole blood, Plasma, Serum, Urine

Sample Volume

60 µL

Sample introduction

Aspiration

Sample container

Tube, Syringe, Capillary

Sample Analysis Time

35 seconds

Measuring temperature

37.0±0.2 °C

Measuring method

Electrochemistry (Direct ISE)

Calibration

Automatic 1-2-point calibration
 Manual calibration is available if necessary

Temperature / Relative humidity

15~35 °C / 5~85 %

Cartridge**Test Panel Options**• **i-Smart 30 PRO Cartridge E4**Na⁺, K⁺, Cl⁻, Ca²⁺• **i-Smart 30 PRO Cartridge**Na⁺, K⁺, Cl⁻**Test Volume Options**

50 tests / 4 weeks
 100 tests / 4 weeks
 200 tests / 4 weeks
 300 tests / 4 weeks
 200 tests / 2 weeks

Storage Condition

10~30 °C

Dimensions

139(W) x 138(H) x 80(D) mm

Weight

0.8 kg

Components

- Micro-sensor card
- Cal1, Cal2
- Reference solution
- Sampler & waste bag
- Valve and tubing

Instrument & Connectivity**Computer**

1.1 GHz dual core processor
 RAM 4 GB, SSD 32 GB storage

Operating System

Microsoft® Windows® 10 IoT Enterprise

Display

7 inch TFT LCD touch screen
 wide view angle

Printer

2 inch thermal printer (built-in)

Dimensions / Weight

256(W) x 292(H) x 177(D) mm
 5.5 kg (accessories excluded)

System Connectivity

Bidirectional LIS/HIS communication

Power Interface**Voltage**

100~240 V.a.c.

Frequency

50/60 Hz (±10%)

Power Adaptor

Input: AC-DC power supplies
 Output: +24 V.d.c., Max. 2.7A

Battery Operation

Max. 2 hours (Li ion cells)

Interface

- 3 x USB 3.0
- Serial port (RS-232)
- Ethernet port (RJ45)

i·Smart 30 PRO

Electrolyte Analyzer – Next Generation

Smart and Convenient

Fast Analysis



Small Sample Volume



Direct Urine test



All in One Cartridge



Voice Guidance



Touch Screen Operation



Convenient Quality Control



L-J chart

i-Smart[®] 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.

01 Maintenance Free Cartridge



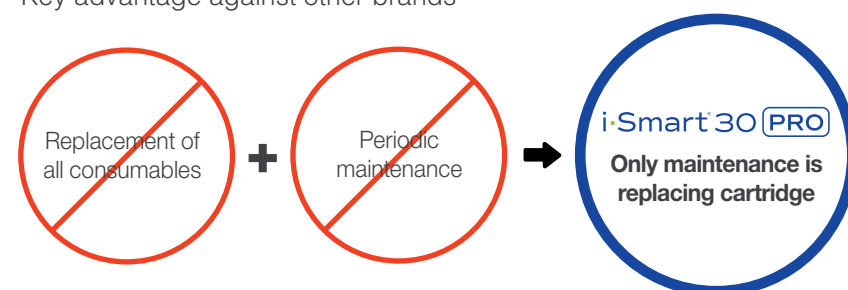
- All-in-one cartridge contains all reagents & consumables.
- Only required maintenance is replacing cartridge.
- Reduces expense & increases profit.

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

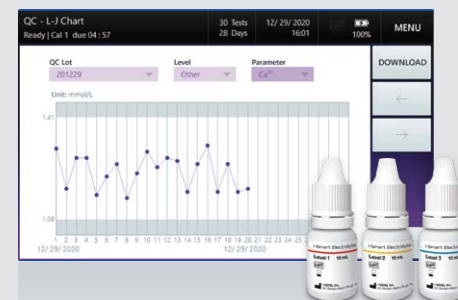
Available cartridge types:

- 50 Samples / 4 weeks
- 100 Samples / 4 weeks
- 200 Samples / 4 weeks
- 300 Samples / 4 weeks
- 200 Samples / 2 weeks

Key advantage against other brands



02 Reliable QC Management with L-J Chart



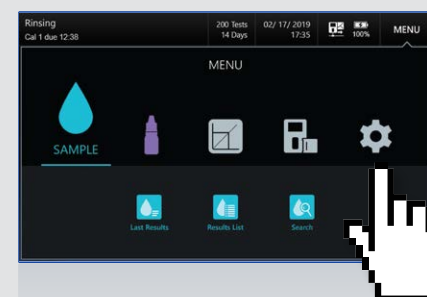
- Easy to check reliable performance with i-Smart electrolyte QC (3 levels).
- Easy QC management and enhanced monitoring of QC results with L-J chart.

03 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.

04 Easy to Use



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

35^{Sec}
Fast Analysis

05 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.

06 Operation on Battery

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

