





About i-SENS

i-SENS is a global company specializing in in-vitro diagnostics. We research, develop, produce, and supply products that promote human and animal health, leveraging advanced biosensor and electrochemical technology.



Founded in year 2000, i-SENS is a global company dedicated to improving the lives of people with diabetes and those who care for them.

CareSens® is a recognized worldwide brand that provides fast and highly accurate blood glucose test results. With annual production capacity of 2.1 billion test strips from highly efficient manufacturing facilities, i-SENS exports to over 110 countries including USA, Japan, and Europe.

i-SENS has pioneered the development and successful launch of CGMS as the first Korean company, securing CE certification and targeting global markets. Additionally, in close collaboration with numerous healthcare professionals, i-SENS supplies a range of convenient POCT devices, including HbA1c, Blood Gas, Electrolyte, Immunoassay, and PT/INR Analyzer.

No.1
in Korea

- The 1st Korean company to develop CGMS
- Number 1 market leader and manufacturer of BGMS in Korea
- Leading the BGMS market through diversified strategy

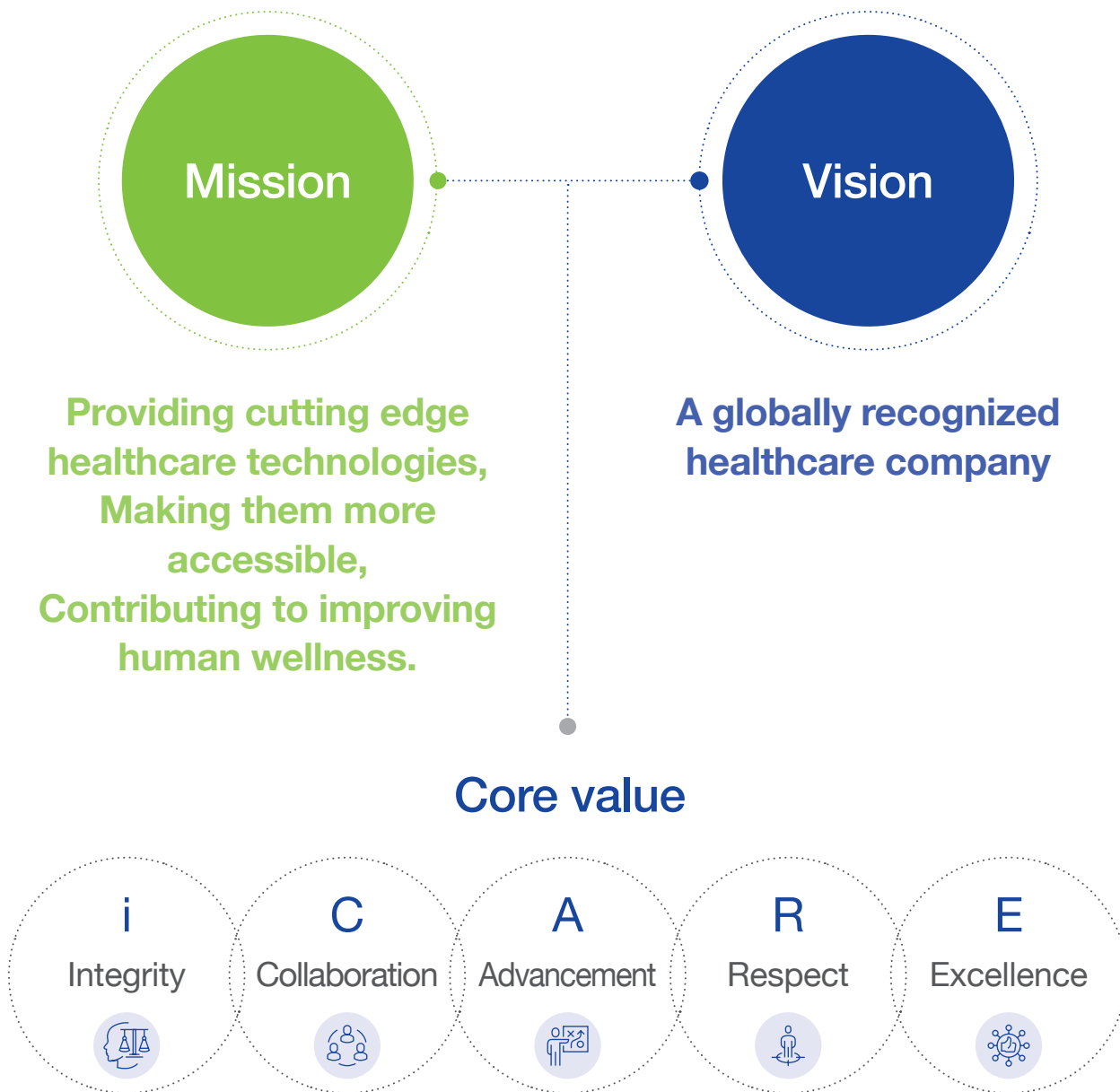
2.1B
Annual Capacity
of Test Strips

- High strip-production capacity with streamlined manufacturing process
- Ensuring consistency, quality, and safety of products with electronic visual inspection system

110
Exporting over
110 Countries

- Growing business by continuously expanding sales channels & local business partners
- Six regional subsidiaries acting as liaisons to provide better and faster customer service

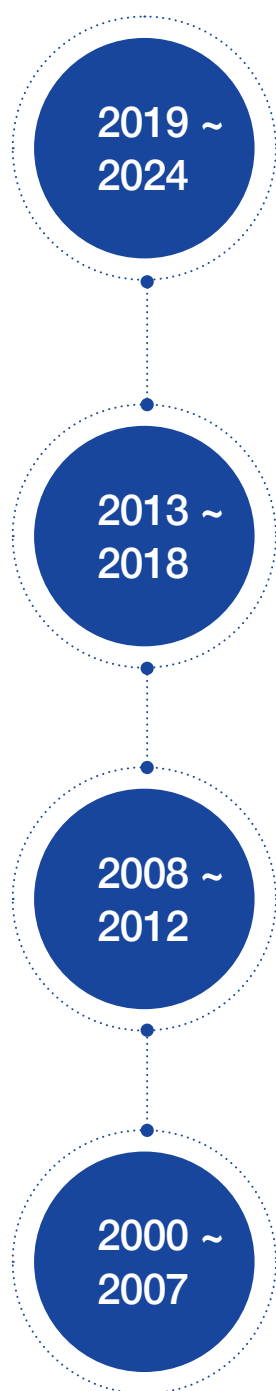
Mission & Vision



- i** Garner customers' trust through ethical business culture.
- C** Achieve common goals by focusing on teamwork and communication.
- A** Relentlessly advance business to achieve sustainable growth.
- R** Create an inclusive culture, respecting diversity and individuality.
- E** Offer the highest quality products and services to satisfy customers.

History

i-SENS' philosophy, to make customers' lives healthier, is realized through advanced technology. We promote healthier lives with leading research and development.



- 2024** CareSens Air, CE Declaration of Conformity
- 2024** ivisen IA CK-MB Cartridge
- 2023** ivisen IA Myoglobin Cartridge
- 2023** Completed i-SENS Songdo second factory, Korea
- 2023** Launched CareSens Air, a continuous glucose monitoring system, in Korea
- 2023** Acquired AgaMatrix, Inc
- 2022** Launched ivisen IA-1100, an immunoassay analyzer, and ivisen IA NT-proBNP, cTnI Cartridge
- 2021** COVID-19 IgM/IgG Cartridge, CE Declaration of Conformity
- 2020** KetoSens BT cleared by FDA
- 2019** Launched i-SmartCare 10

- 2018** CareSens S Fit complied with new FDA standards
- 2017** 'Korea National Quality Award' by the president of Korea
- 2017** Acquired CoaguSense, Inc.
- 2016** Established branch office in Germany and Malaysia
- 2015** Established branch office in Chile and India
- 2015** Launched A1Care & i-Smart 300
- 2013** Listed on KOSDAQ
- 2013** 'World Class 300' by the Ministry of Knowledge Economy of Korea

- 2012** New Zealand sole suppliership
- 2012** Completed Songdo factory
- 2011** Established branch office in Europe
- 2010** Established branch office in USA
- 2009** Frost & Sullivan Award for Self-Monitoring Product of the Year
- 2009** Launched electrolyte analyzer i-Smart 30
- 2008** CareSens II, CareSens POP cleared by FDA
- 2008** Established branch office in China

- 2007** Completed Wonju factory
- 2005** Glucose strips FDA cleared
- 2004** Europe CE, ISO 13485 FDA cleared
- 2003** Launched CareSens
- 2002** Completed Seoul factory and R&D center
- 2000** Founded i-SENS, Inc.

Worldwide Global Networks

With a broad global network and effective localization strategies, i-SENS makes remarkable sales growth worldwide.



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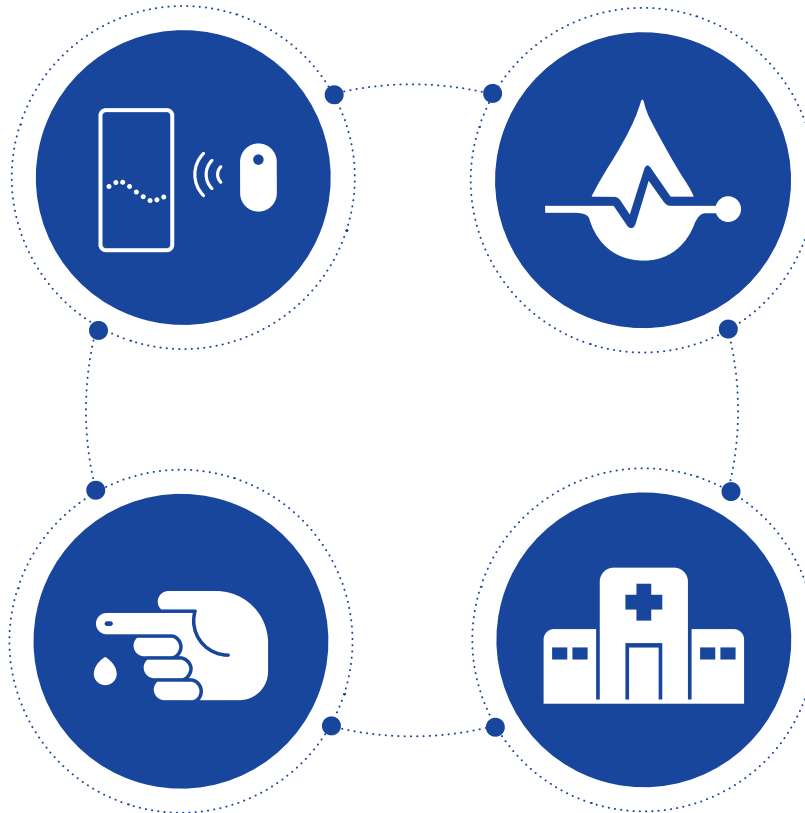
Product Portfolio

Continuous Glucose Monitoring System

CareSens Air™, certified with CE, continuously measures glucose levels and provides users with data on glucose level trends.

Total Diabetes Management Service

SmartLog®, mobile and PC software, provides complete diabetes management service to patients through data sharing, various graphs, and data analysis.



Self-Blood Glucose Monitoring System

CareSens® BGMS fulfills the accuracy, hematocrit, and interference criteria requirements of ISO 15197:2013 (EN ISO 15197:2015).

Point of Care Test System

i-SENS' analyzers are convenient, efficient, and reliable solutions for healthcare professionals with data management system.

Core Technology

IVD business expansion through the core technologies.

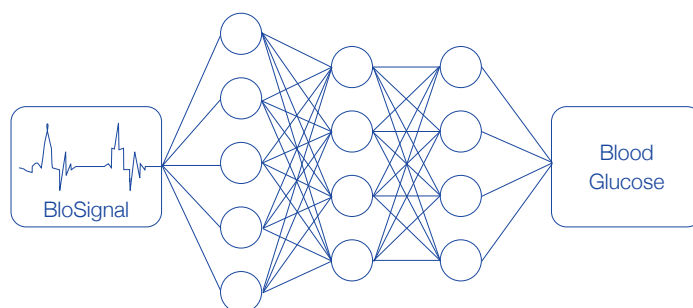
BGMS Technology

Through unique patented technology, i-SENS' BGMS provides high accuracy and precision.



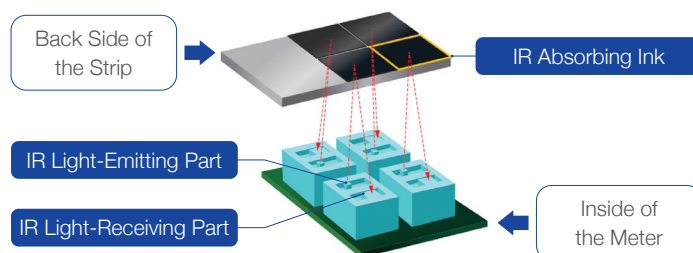
NeuralSync Sensing Technology™

It is a sophisticated technology delivering more accurate glucose reading by eliminating interference factors through artificial neural network algorithm.



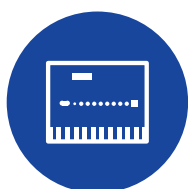
CodeSens® Technology

It is a patented no-coding technology that is the most accurate system among the different kinds of no-coding technologies available in the world.



POCT Technology

i-SENS' POCT analyzer provides reliable results and high usability through two main key technologies.



Micro-Sensor Technology™

Micro-sensors fabricated on i-SENS' unique screen-printed electrodes allow for accurate analysis of samples at small volumes.

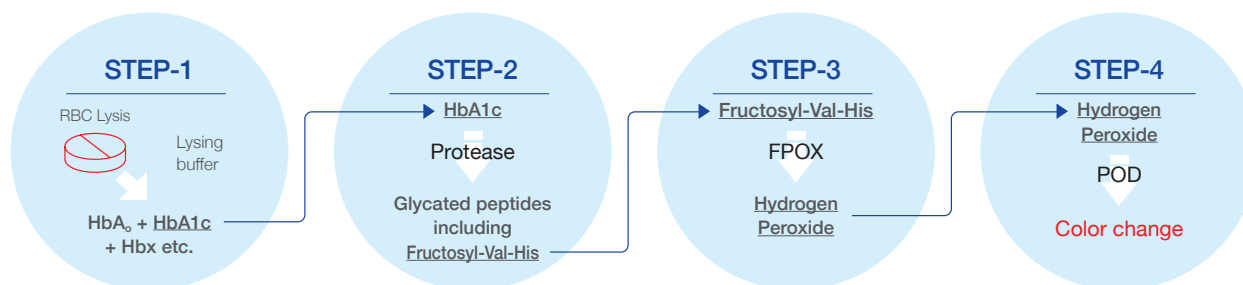


All-in-One Multi Test Cartridge Technology™

Each cartridge contains all reagents, sensors, calibration solutions, and complete fluidic components from sampler to waste bag required for optimal testing.

1st POCT Enzymatic HbA1c Assay in the World

A1Care™'s IFCC & NGSP certified enzymatic HbA1c assay provides unique performance advantages over conventional immunoassay, boronate affinity, and chromatography methods.



Comparison Table

Blood Glucose Monitoring System



CareSens® N



CareSens® N NFC



CareSens® N POP



CareSens® N Voice



CareSens® N Premier

Page no.	p.18	p.18	p.19	p.19	p.20
Enzyme	GOD	GOD	GOD	GOD	GOD
Sample type	Fresh capillary whole blood	Fresh capillary whole blood	Fresh capillary whole blood	Fresh capillary whole blood	Fresh capillary whole blood
Sample size (µL)	0.5	0.5	0.5	0.5	0.5
Test time (sec)	5	5	5	5	5
Measurement range (mg/dL)	20-600	20-600	20-600	20-600	20-600
Hematocrit (%)	15-65	15-65	15-65	15-65	15-65
Operating temperature (°C)	5-50	5-50	5-50	5-50	5-50
Memory (tests)	1,000	500	1,000	500	1,000
Auto coding	O	O	O	O	O
Strip ejection button	X	X	X	O	O
Back-lighted LCD	X	X	O	X	O
Data transfer	Data port	Data port, NFC	Data port	Data port	Data port, Bluetooth® (option)
β-Ketone testing	X	X	X	X	X
Voice guidance	X	X	X	O	X



CareSens® N Eco



CareSens® S Fit



NoCoding1™ Plus



CareSens® Dual



CareSens® PRO



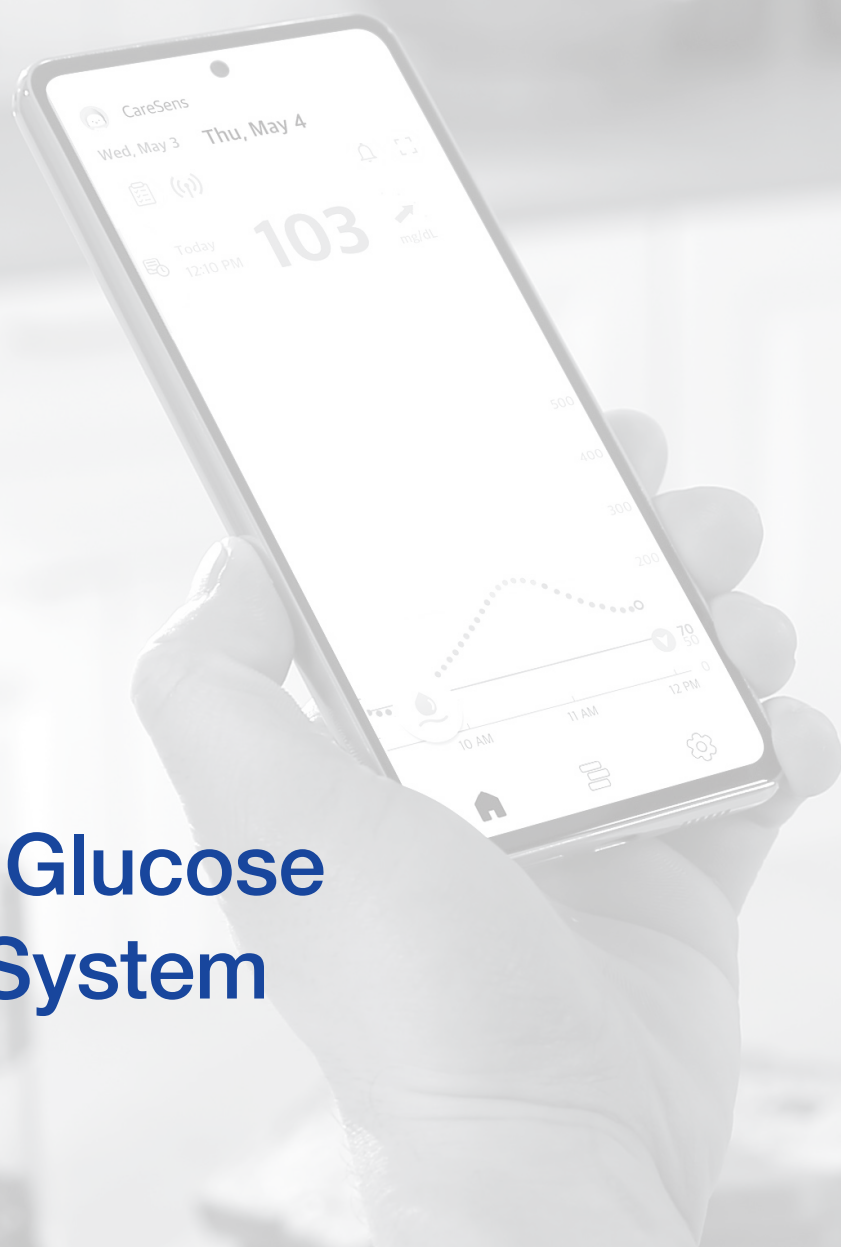
CareSens® H Beat

p.20	p.21	p.21	p.22	p.23	p.23
GOD	GOD	GOD	GDH-FAD	GDH-FAD	GDH-FAD
Fresh capillary whole blood	Fresh capillary whole blood	Fresh capillary whole blood	Fresh capillary / Venous / Neonatal / Arterial whole blood	Fresh capillary / Venous / Neonatal / Arterial whole blood	Fresh capillary / Venous / Neonatal / Arterial whole blood
0.5	0.5	0.5	0.4	0.4	0.5
5	6	5	5	5	5
20-600	20-600	20-600	20-600	20-600	10-600
15-65	15-65	15-65	15-65	15-65	15-70
5-45	5-45	5-50	5-45	5-45	5-45
1,000	1,000	1,000	1,000	1,000	1,000
O	O	O	O	O	O
O	X	X	O	O	O
X	X	X	O	O (option)	X
Data port	Data port, Bluetooth® (option)	Data port, Bluetooth® (option)	Data port, Bluetooth®	Data port	Data port, Bluetooth® (option)
X	X	X	O	X	X
X	X	X	X	X	X

* These specifications may vary by country.



Continuous Glucose Monitoring System





CareSensTM Air

Continuous Glucose Monitoring System



Specifications

MARD	8.7%
Dimension / Weight	35.2x19.2x5.0 mm / 4.5 g
Shelf life	12 months from the manufacturing date
Useful life	Up to 15 days
Warmup period	30 minutes
Measurement range	40-500 mg/dL (2.2-27.8 mmol/L)
Data transfer interval	Once every 5 minutes
Memory	12 hours of glucose data
Data transmission method	Bluetooth 4.2
Data transmission distance	6 meter
Operating conditions	Temperature: 10-45 °C (50-113 °F) Humidity: 10-95% RH
IP rating	IP48: Fully protected against dust; resistant to water submersion up to 1 meter for 24 hours.

*The shelf life will be extended to 18 months, effective from March 2026. (subject to adjustment)

Advantage

All-in-One CGMS

- All-in-one sensor and transmitter
- Pre-assembled sensor and applicator structure

Excellent Sensor Usability

- Slim and light sensor
- Ease of movement with the waterproof feature (IP48)
- Not mandatory, but easy calibration

Exceptional Sensor Capabilities

- Real time measurement of glucose in interstitial fluid
- Measures for 15 days, 24 hours a day, and every 5 minutes

Effective Diabetes Management

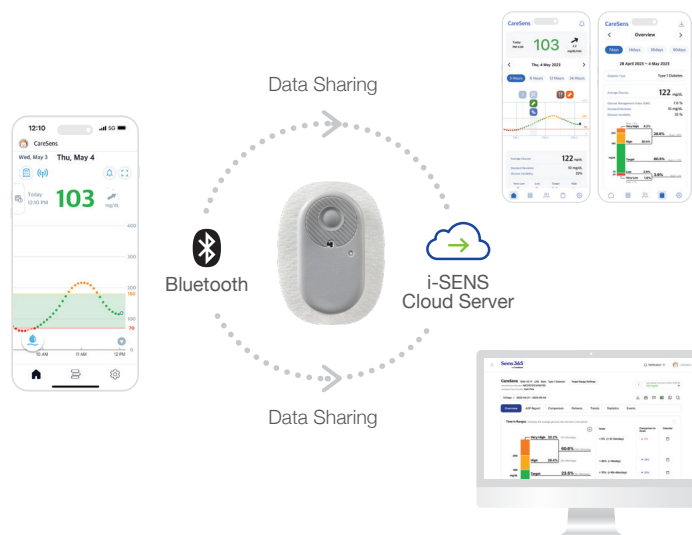
- Alert settings for glucose level changes in the app
- Data sharing with care providers
- AGP report and dashboards available on our software

CGM Ecosystem

The software connectivity in CareSens Air helps with effective diabetes management

CareSens Air App

- Real time glucose monitoring
- Glucose trend arrow
- Glucose statistics
- Event log records



Sens365 App

- AGP* report and various statistical indicators
 - Connection with sensor users
- * Ambulatory Glucose Profile (AGP)

Sens365 Web

- Customizable dashboard
- Specialized mode for healthcare providers
- Data download in various file formats

Instructions

How to start measuring glucose levels with CareSens Air



Step 1

Download and log in to the CareSens Air app



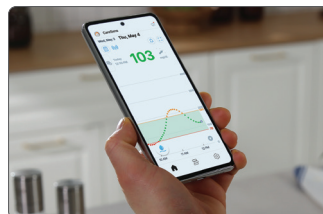
Step 2

Enter the sensor information to the app



Step 3

Apply the sensor and complete pairing



Step 4

Once the sensor warmup is complete, it is ready to measure glucose levels



Self Blood Glucose Monitoring System



◀ 010

SENSING AHEAD

Fixed set to convert signal
strip to digital form



CareSens®**N**

Millions of Customers' Choice



Alarm



Meal flagging



Data port

Specifications

- 0.5 μ L / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 1,000 test result memory
- 5-50 °C (41-122 °F)

Features

- GOD
- No coding required
- 1, 7, 14, 30, 90-day test averages (total, pre-meal and post-meal)
- Post-meal flagging
- 4 alarms (PP2* and 3 time-set alarms)
*2 hours after meal
- Data port

CareSens®**N** **NFC**

Convenient with NFC



NFC



Hypo indicator



Strip expiration indicator

Specifications

- 0.5 μ L / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 500 test result memory
- 5-50 °C (41-122 °F)

Features

- GOD
- No coding required
- Hypoglycemia indicator
- Strip expiration date indicator
- 1, 7, 14, 30, 90-day test averages
- Pre-meal, Post-meal, Fasting, No-mark flagging
- 4 alarms (PP2* and 3 time-set alarms)
*2 hours after meal
- NFC (Near Field Communication)
- Data port

CareSens® **N** POP

Slim & Simple



Backlight



Hypo indicator



Strip expiration indicator

Specifications

- 0.5 μ L / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 1,000 test result memory
- 5-50 °C (41-122 °F)

Features

- GOD
- No coding required
- Hypoglycemia indicator
- Strip expiration date indicator
- Auto back-lighted LCD
- 1, 7, 14, 30, 90-day test averages (total, pre-meal and post-meal)
- Post-meal flagging
- PP2* alarm
 - *2 hours after meal
- Data port

CareSens® **N** Voice

Voice Guidance



Voice



Hypo indicator



Strip ejection

Specifications

- 0.5 μ L / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 500 test result memory
- 5-50 °C (41-122 °F)

Features

- GOD
- No coding required
- Voice guidance
- Hypoglycemia indicator
- Strip ejection button
- 1, 7, 14, 30, 90-day test averages (total, pre-meal and post-meal)
- Post-meal flagging
- 4 alarms (PP2* and 3 time-set alarms)
 - *2 hours after meal
- Data port

CareSens[®] **N** Premier

Convenient with Bluetooth[®]



Bluetooth[®]



Backlight



Strip ejection

Specifications

- 0.5 μ L / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 1,000 test result memory
- 5-50 $^{\circ}$ C (41-122 $^{\circ}$ F)

Features

- GOD
- No coding required
- Hypoglycemia indicator
- Strip expiration date indicator
- Strip ejection button
- Auto back-lighted LCD
- 1, 7, 14, 30, 90-day test averages
- Pre-meal, Post-meal, Fasting, No-mark flagging
- 4 alarms (PP2* and 3 time-set alarms)
 - *2 hours after meal
- Bluetooth[®] (option)
- Data port

CareSens[®] **N** Eco

Display with Intuitive Symbols



Range indicator



Hypo/Hyper indicator



Strip ejection

Specifications

- 0.5 μ L / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 1,000 test result memory
- 5-45 $^{\circ}$ C (41-113 $^{\circ}$ F)

Features

- GOD
- No coding required
- Normal range, Hypoglycemia / Hyperglycemia indicator
- Strip expiration date indicator
- Strip ejection button
- 1, 7, 14, 30, 90-day test averages
- Pre-meal, Post-meal, Fasting, No-mark flagging
- 4 alarms (PP2* and 3 time-set alarms)
 - *2 hours after meal
- Data port

CareSens® S Fit

Advanced Accuracy & Precision



Range indicator



Bluetooth®



Hypo/Hyper indicator

Specifications

- 0.5 µL / 6 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 1,000 test result memory
- 5-45 °C (41-113 °F)

Features

- GOD
- No coding required
- Normal range, Hypoglycemia / Hyperglycemia indicator
- Strip expiration date indicator
- 1, 7, 14, 30, 90-day test averages
- Pre-meal, Post-meal, Fasting, No-mark flagging
- 4 alarms (PP2* and 3 time-set alarms)
 - *2 hours after meal
- Bluetooth® (option)
- Data port



Large Display, Easy to Read



Large LCD



Bluetooth®



Hypo indicator

Specifications

- 0.5 µL / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 1,000 test result memory
- 5-50 °C (41-122 °F)

Features

- GOD
- No coding required
- Hypoglycemia indicator
- Strip expiration date indicator
- 1, 7, 14, 30, 90-day test averages
- Pre-meal, Post-meal, Fasting and No-mark flagging
- 4 alarms (PP2* and 3 time-set alarms)
 - *2 hours after meal
- Bluetooth® (option)
- Data port

CareSens® Dual

Blood Glucose & β -Ketone Measurement



Specifications

- 1,000 test result memory
- Fresh capillary / Venous / Neonatal / Arterial whole blood

Blood Glucose

- 0.4 μ L / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 5-45 °C (41-113 °F)

Blood β -Ketone

- 0.5 μ L / 8 seconds
- 0.1-8.0 mmol/L
- Hematocrit: 20-60 %
- 10-40 °C (50-104 °F)

Features

- GDH-FAD, HBDH
- No coding required
- Hypoglycemia / Hyperglycemia indicator
- Strip expiration date indicator
- Strip ejection button
- Auto back-lighted LCD
- 1, 7, 14, 30, 90-day test averages
- Pre-meal, Post-meal, Fasting, No-mark flagging
- 4 alarms (PP2* and 3 time-set alarms)
*2 hours after meal
- β -Ketone test alarm
- Bluetooth®
- Data port

CareSens[®] PRO

No Oxygen Interference



Large LCD



Hypo indicator



Strip ejection

Specifications

- 0.4 μ L / 5 seconds
- 20-600 mg/dL (1.1-33.3 mmol/L)
- Hematocrit: 15-65 %
- 1,000 test result memory
- 5-45 °C (41-113 °F)
- Fresh capillary / Venous / Neonatal / Arterial whole blood

Features

- GDH-FAD
- No coding required
- Hypoglycemia indicator
- Strip expiration date indicator
- Strip ejection button
- Auto back-lighted LCD (option)
- 1, 7, 14, 30, 90-day test averages
- Pre-meal, Post-meal, Fasting, No-mark flagging
- 4 alarms (PP2* and 3 time-set alarms)
*2 hours after meal
- Data port

CareSens[®] H Beat

Enhanced Features and Proven Accuracy



Range indicator



Bluetooth[®]



Strip ejection

Specifications

- 0.5 μ L / 5 seconds
- 10-600 mg/dL (0.6-33.3 mmol/L)
- Hematocrit: 15-70 %
- 1,000 test result memory
- 5-45 °C (41-113 °F)
- Fresh capillary / Venous / Neonatal / Arterial whole blood

Features

- GDH-FAD
- Enzyme: GDH-FAD
- No coding required
- Normal range, Hypoglycemia / Hyperglycemia indicator
- Strip expiration date indicator
- Strip ejection button
- 1, 7, 14, 30, 90-day test averages
- Pre-meal, Post-meal, Fasting, No-mark flagging
- 4 alarms (PP2* and 3 time-set alarms)
*2 hours after meal
- Bluetooth[®] (option)
- Data port



Total Diabetes Management Service

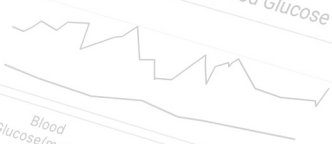




SMARTLOG

Past 7 days

☒ Blood Glucose ☒ Ketone



	Blood Glucose(mg/dL)	Ketone(mmol/L)
Average	129	0.5
Min.	78	0.1
Max.	178	1.1

1:52 PM ⓘ

165

May 4, 2024

11:51 AM ⓘ

121

2.0

200



10:31 AM ⓘ

132

1.1

69

30

May 3, 2024



Add



Reports

Introduction of SmartLog®

SmartLog® is a diabetes management service that is designed to help patients and healthcare providers download, analyze, and share blood glucose & β -ketone data.



Various intuitive
result analysis



Convenient
data sharing



Adding additional
health related data



Supporting
multiple languages

SmartLog[®] PC

Windows / MAC

Data sharing

E-mail, File Export

Various intuitive result analysis

Trend Graph, Average Analysis,
Daily Trend, Target Analysis,
Period Comparison, Logbook,
2-Week Summary, Diary List

Simple data transfer

USB Cable



SmartLog[®] Mobile

Android / iOS

Data sharing

E-mail, Push Message, File Export

Various intuitive result analysis

Trend Graph, Statistics, Daily Graph, Logbook

Simple data transfer

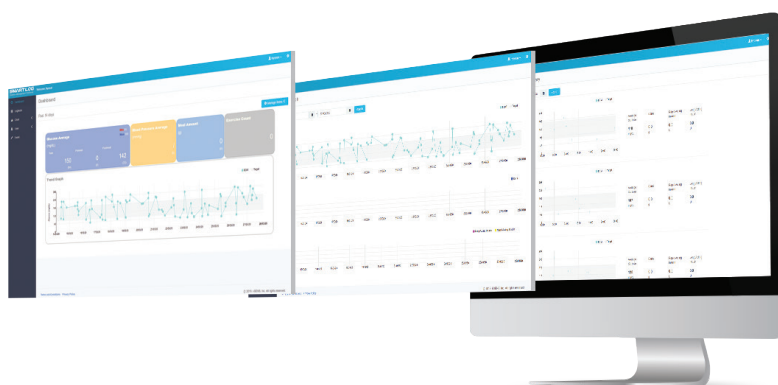
NFC, Bluetooth[®]



SmartLog[®] Web

Various intuitive result analysis

Statistics, Logbook, Trend Graph, Daily Log,
Weekly Summary





Point of Care Test System



i-SmartCare™ 10

Blood Gas Analyzer



Specifications

Analyzer

Dimension / Weight	269x391x255 mm / 8.4 kg
Display	9 inch color touchscreen LCD
Printer	2 inch built-in thermal printer
Interface	Serial (RS-232) / LAN (RJ45 Ethernet) / HDMI / Barcode scanner
Power	100-240 VAC, 50/60 Hz
Battery operation	Max 2 hours (Li-ion cells)

Cartridge

Measured parameters	pH, Na ⁺ , K ⁺ , Ca ²⁺ , Cl ⁻ , Hct, pCO ₂ , pO ₂ , Glu, Lac
Derived parameters	pH(T), pCO ₂ (T), pO ₂ (T), tCO ₂ , HCO ₃ ⁻ , HCO ₃ ⁻ (std), BE(ecf), BE(B), Anion gap(K), tHb, Ca ²⁺ (7.4), pO ₂ (A-a), sO ₂
Sample type	Heparinized whole blood
Sample volume	100 µL
Sample introduction	Aspiration
Time to analysis	50 seconds
Calibration	Automatic calibration / Manual calibration if necessary
Shelf life	6 months

Advantage

Easy to Use & Simple Operation

- Syringe and capillary samples without adapters
- Built-in sample barcode scanner & printer
- One-touch design: Available to start test by touching 'START' button on the screen

Efficiency

- Internal battery provides up to 2 hours of full operation without AC power
- Light weight and small foot-print

Fast, Safe & Reliable Results

- EEPROM chip enables automatic cartridge information loading and ensures that valid cartridges are used
- Fast patient test results: 50 seconds
- Fully automated calibration and system performance monitoring

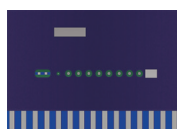
Maintenance Free

- All-in-one multi test cartridge contains all reagents & consumables
- Self-cleaning sample probe helps rinse out septum and probe after each test to avoid carry-over

Connectivity Management

- Analyzer-monitoring including QC status
- Real-time data transfer to HIS / LIS
- Strict quality control and data security & integrity through middleware

Technology



Micro Sensor Technology

Micro sensors fabricated on i-SENS' unique screen-printed electrodes allow for accurate analysis of samples at small volumes



All-in-One Multi Test Cartridge Technology

Each cartridge contains all reagents, sensors, calibration solutions, and complete fluidic components from sampler to waste bag required for optimal testing

Cartridge Description



· Cartridge

CarePak 108: pH, Na⁺, K⁺, Ca²⁺, Cl⁻, Hct, pCO₂, pO₂

CarePak 110: pH, Na⁺, K⁺, Ca²⁺, Cl⁻, Hct, pCO₂, pO₂, Glu, Lac

· Test Volume Options

50 tests / 2 or 3 weeks

100 tests / 2 or 3 weeks

200 tests / 2 or 3 weeks

300 tests / 2 or 3 weeks

i-Smart[®] 300

Blood Gas Analyzer



Specifications

Analyzer

Dimension / Weight	257x394x252 mm / 7.1 kg
Display	8 inch color touchscreen LCD
Printer	2 inch built-in thermal printer
Interface	Serial (RS-232) / LAN (RJ45 Ethernet) / HDMI / Barcode scanner
Power	100-240 VAC, 50/60 Hz
Battery operation	Max 2 hours (Li-ion cells)

Cartridge

Measured parameters	pH, Na ⁺ , K ⁺ , Ca ²⁺ , Cl ⁻ , Hct, pCO ₂ , pO ₂
Derived parameters	pH(T), pCO ₂ (T), pO ₂ (T), tCO ₂ , HCO ₃ ⁻ , HCO ₃ ⁻ (std), BE(ecf), BE(B), Anion gap(K), tHb, Ca ²⁺ (7.4), pO ₂ (A-a), sO ₂
Sample type	Heparinized whole blood
Sample volume	100 µL
Sample introduction	Aspiration
Time to analysis	50 seconds
Calibration	Automatic calibration / Manual calibration if necessary
Shelf life	6 months

Advantage

Easy Maintenance

- All-in-one cartridge contains all reagents & consumables
- Self-cleaning sample probe helps to prevent carry-over
- Waste bag in cartridge excludes the risk of biohazards

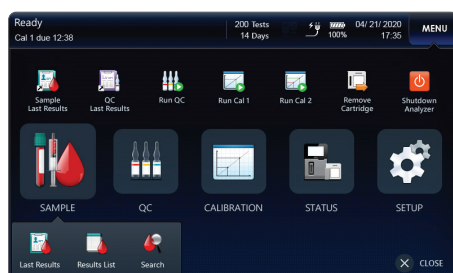
Easy to Use & Simple Operation

- Syringe and capillary samples without adapters
- Built in sample barcode scanner & printer
- Internal battery provides up to 2 hours of full operation without AC power

Fast & Reliable Results

- Cartridge information is automatically uploaded via RFID technology
- Fast test results: 50 seconds
- Fully automated calibration and system performance monitoring

User Friendly Interface



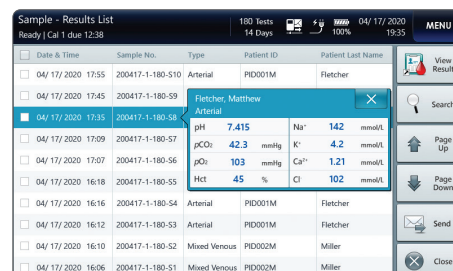
Easy to locate different tools and options



Intuitive display of measured parameters



Intuitive display of calculated parameters



Well-organized dashboard provides quick results

Cartridge Description



- **Cartridge**
pH, Na⁺, K⁺, Ca²⁺, Cl⁻, Hct, pCO₂, pO₂
- **Test Volume Options**
50 tests / 2 or 3 weeks
100 tests / 2 or 3 weeks
200 tests / 2 or 3 weeks
300 tests / 2 weeks

i-Smart[®] 30 PRO

Electrolyte Analyzer



Specifications

Analyzer

Dimension / Weight	256x292x177 mm / 5.5 kg
Display	7 inch color touchscreen LCD
Printer	2 inch built-in thermal printer
Interface	Serial (RS-232) / LAN (RJ45 Ethernet) / Barcode Scanner
Power	100-240 VAC, 50/60 Hz
Battery operation	Max 2 hours (Li-ion cells)

Cartridge

Measured parameters	i-Smart [®] 30 PRO Cartridge E4: Na ⁺ , K ⁺ , Cl ⁻ , Ca ²⁺ i-Smart [®] 30 PRO Cartridge: Na ⁺ , K ⁺ , Cl ⁻
Sample type	Whole blood, Plasma, Serum, Urine
Sample volume	60 µL
Sample introduction	Aspiration
Time to analysis	35 seconds
Calibration	Automatic calibration / Manual calibration if necessary
Cartridge type	50 tests / 4 weeks, 100 tests / 4 weeks 200 tests / 4 weeks, 300 tests / 4 weeks
Shelf life	18 months

Advantage

All-in-One Cartridge Type

- Cartridge contains all reagents & consumables
- No maintenance is required
- Easy to use / Easy to fix the problem

Urine Test without Dilution

- Wide sensor detection can measure high levels of K^+ in urine samples
- No sample dilution provides accurate test results
- Results are displayed immediately on the screen

Convenience

- Operate with battery for max 2 hours
- QC range setup in seconds by barcode scanning
- Easy to check QC status

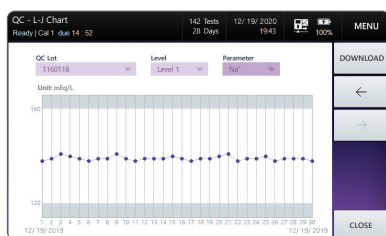
Fast & Reliable Results

- Fast test results: 35 seconds
- Fast and error-free data entry using barcode scanner
- QC material composed of three levels
- Provide Levey-Jennings control chart

Advanced Quality Control

The Levey-Jennings Control Chart

i-Smart[®] 30 PRO Electrolyte Analyzer uses the Levey-Jennings control chart to assure the quality of the analytical run

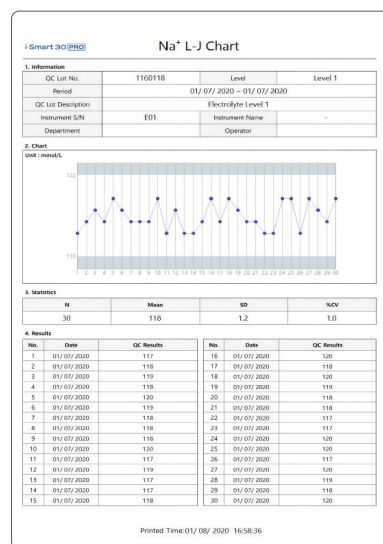


Levey-Jennings Control Chart

Analytes	N	Mean	SD	% CV
Na+ mmol/L	8	140	3.3	2.4
K+ mmol/L	9	4.3	0.12	2.8
Cl- mmol/L	9	103	3.0	2.9
Ca2+ mmol/L	10	1.05	0.058	2.4

N = All accepted & passed QC samples.

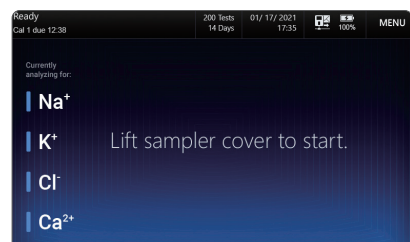
Statistical Analysis of Analytes



Summary Report of Data Analysis

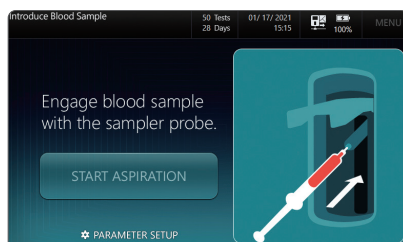
Procedure

How to Use the i-Smart[®] 30 PRO Electrolyte Analyzer



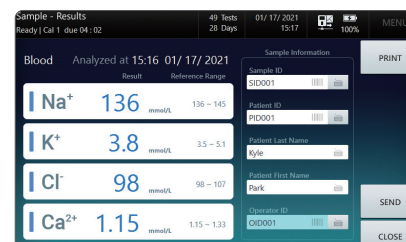
Step 1

Lift the sampler cover



Step 2

Insert the end of the sampler probe into the sample container



Step 3

Result will appear after sample analysis

A1Care™

POC Clinical Chemistry Analyzer



Specifications

Analyzer

Dimension / Weight	290x130x250 mm / 3.8 kg
Operating temperature	10-32 °C (50-89 °F)
Humidity	10-90 %
Display	7 inch color touchscreen LCD
Memory	5,000 test results memory
Interface	Serial (RS232), LAN (RJ45 Ethernet)

Cartridge

	HbA1c	ACR
Sample type	Fresh capillary / Venous whole blood	Urine
Sample volume	2.5 µL	40 µL
Measurement time	4 minutes 20 seconds	7 minutes
Accuracy	±6 % of target value (95 % CI)	±15 % of target value (95 % CI)
Precision	CV 3.0 %	CV 8.0 %

Advantage

Simple & Easy Preparation

- All-in-one, self-contained reagent cartridge
- Small blood sample size (2.5 µL, HbA1c)
- External barcode scanner for safer and faster patient ID entry

Fast & Reliable Results

- HbA1c test result within 4 minutes 20 seconds
- NGSP and IFCC certified
- All-in-one cartridge to minimize user error
- Internal temperature control system

High Usability

- No complicated maintenance required due to all-in-one cartridge
- Intuitive color touchscreen
- On-screen step-by-step guide

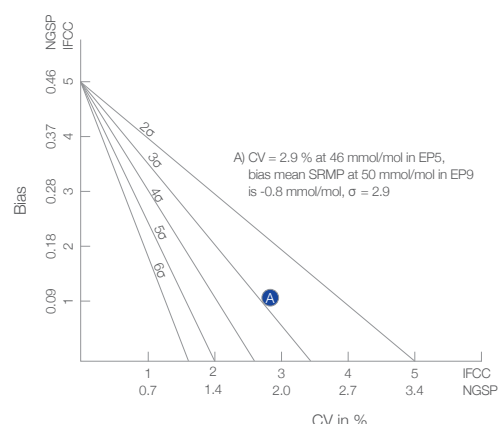


Clinical Performance

Accuracy

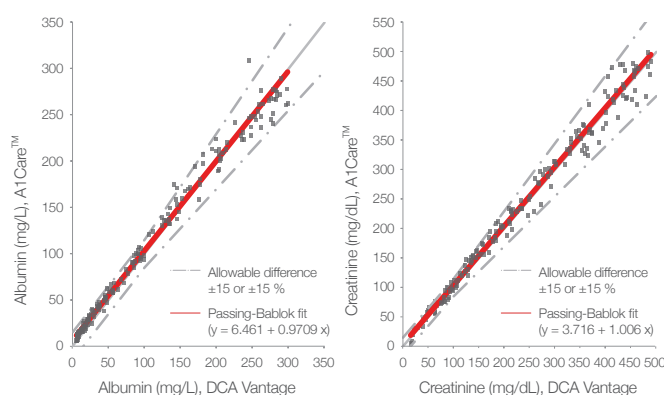
HbA1c

Evaluated according to the EP5 and EP9 method of the CLSI guideline, A1Care™ met the IFCC criteria at 50 mmol/mol showing a sigma of 2.9



ACR

Evaluated according to the EP9 method of the CLSI guideline, A1Care™ met the acceptance criteria TE = ±15 % (95 % CI)



Precision

HbA1c

Evaluated according to the EP5 method of the CLSI guideline, the values of CV show less than 3.0 % at all concentration ranges

CV (%)	SI units	DCCT units
A1Care™	2.9 (46 mmol/mol)	1.9 (6.4 %)
	1.9 (73 mmol/mol)	1.5 (8.9 %)
Lot DEJXBC *	2.5	2.0
Lot DEJWBC *	2.0	1.5

* Based on duplicates in EP9

ACR

Evaluated according to the EP5 method of the CLSI guideline, the values of CV show less than 8.0 % at all concentration ranges

CV (%)	Albumin Low, 59.3 mg/L	Creatinine Low, 70.2 mg/dL	Albumin High, 256.6 mg/L	Creatinine High, 441.9 mg/dL
Repeatability	5.0 %	5.5 %	4.8 %	5.0 %
Between-run	0.0 %	1.2 %	0.0 %	0.0 %
Between-day	1.7 %	0.0 %	0.8 %	1.1 %
Within-Laboratory	5.3 %	5.7 %	4.9 %	5.1 %

ivisen[®] IA

Fully Quantitative Immunoassay Analyzer



Specifications

Analyzer

Dimension / Weight	162x407x345 mm / 6.5 kg
Display	7 inch color touchscreen LCD
Printer	2 inch built-in thermal printer
Interface	Serial (RS-232), LAN (RJ45 Ethernet)
Power	100-240 VAC, 50/60 Hz
Operating system	Android 10

Cartridge	NT-proBNP*	Troponin-I*	CK-MB	Myoglobin
Sample type	Whole Blood, Plasma	Whole Blood, Plasma	Whole Blood, Plasma/Serum	Whole Blood, Plasma/Serum
Sample volume	400 µL (WB) 100 µL (Plasma)	400 µL (WB) 100 µL (Plasma)	400 µL (WB) 100 µL (Plasma/Serum)	400 µL (WB) 100 µL (Plasma/Serum)
Measurement time	< 16 minutes	< 17 minutes	< 16 minutes	< 16 minutes

*Sample type will be added

Advantage

Reliability

- Accurate and Precise analysis through the Fully Quantitative Test Method
- Strong correlation with reference analyzer utilizing built-in centrifuge

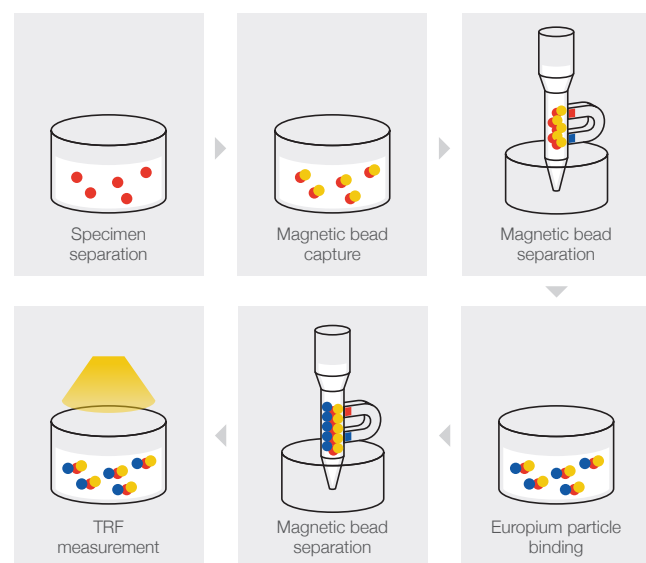
High Usability

- Maintenance free all-in-one cartridge system
- Easy and Simple operation with whole blood

Test Principle

Fully Quantitative Time-Resolved Fluorescence

- Specimen
- Magnetic bead
- Europium particle

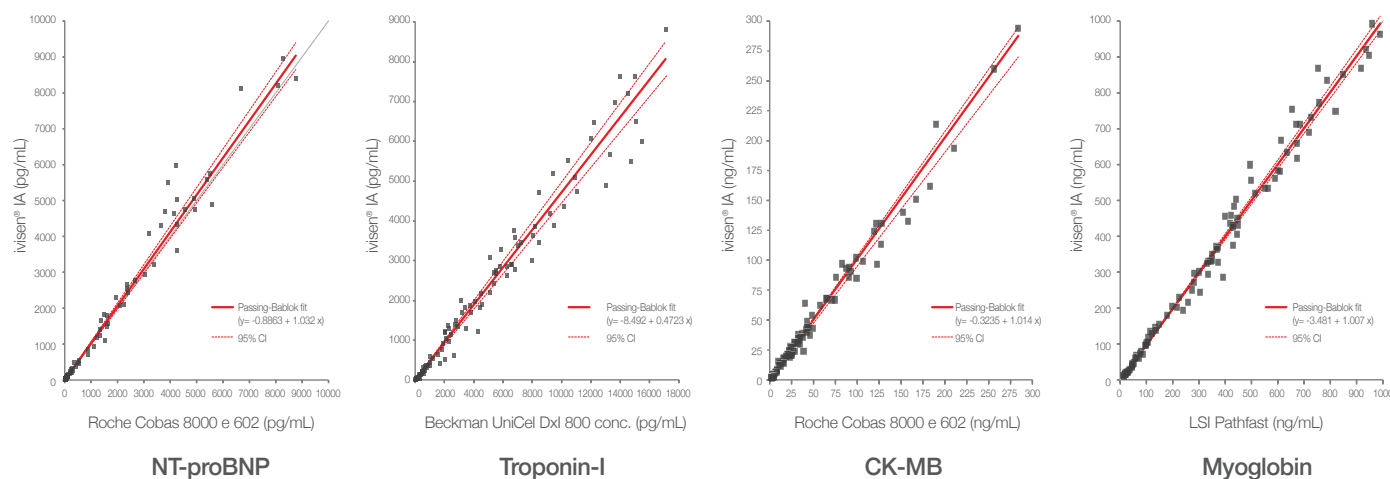


Self-Centrifugation

The built-in centrifuge mechanism ensures an accurate test result with no interference from hematocrit levels.



Clinical Performance



CareSens® Expert+

Blood Glucose & β -Ketone Monitoring System for Professional Use



Specifications

Analyzer

Dimension / Weight	161x74x25 mm / 213 g
Display	4 inch color touchscreen LCD
Memory	5,000 test results memory
Battery	3.7 V Li-ion polymer rechargeable battery
Data transfer	Ethernet, USB cable, Wi-Fi

Blood glucose test strip

Sample type	Fresh capillary / Venous / Neonatal / Arterial whole blood
Sample volume	0.4 μ L
Measurement time	5 seconds
Test range	20-600 mg/dL (1.1-33.3 mmol/L)
Hematocrit	15-65 %
Measurement temperature	5-45 °C (41-113 °F)

Blood β -ketone test strip

Sample type	Fresh capillary / Venous whole blood
Sample volume	0.5 μ L
Measurement time	8 seconds
Test range	0.1-8.0 mmol/L
Hematocrit	20-60 %
Measurement temperature	10-40 °C (50-104 °F)

Advantage

Reliable Results

- Meet ISO 15197:2013 (EN ISO 15197:2015)
- Available various sample types for blood glucose testing (Fresh capillary / Venous / Neonatal / Arterial whole blood)

High Usability

- Auto identification of blood glucose and β -ketone test strip
- Intuitive UI with a high resolution color screen
- Simple maintenance and automatic software update

Easy Data Management

- Easy data access through CareSens® DataManager; web-based data manager
- Real time data transfer via Wi-Fi, Ethernet, USB
- Support multiple protocols; POCT1-A, IHE DEC (HL7)

Technology

CareSens® DataManager

- Connect to hospital network with CareSens® DataManager via Wi-Fi or wired connection
- CareSens® Expert+ & CareSens® DataManager System supports multiple security protocols (POCT1-A and IHE DEC (incl. ASTM & HL7)) to ensure the integrity of patient data



Web-based CareSens® Data Manager

Convenient quality control options

Register	ID	Name	Ward	Authority	Permission	Description
15:40:36	Operator10	operator10	wd1	Supervisor	✓	
15:40:15	Operator9	operator9	wd1	Supervisor	✓	
15:39:50	Operator8	operator8	wd1	Supervisor	✓	
15:39:27	Operator7	operator7	wd1	Supervisor	✓	
15:39:03	Operator6	operator6	wd1	Supervisor	✓	
15:38:38	Operator5	operator5	wd1	Supervisor	✓	
15:36:49	Operator4	operator4	wd1	Supervisor	✓	
15:36:26	Operator3	operator3	wd1	Supervisor	✓	
15:36:00	Operator2	operator2	wd1	Supervisor	✓	
15:35:24	Operator1	operator1	wd1	Supervisor	✓	

Data access control



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General Inquiries

If you need to find a local distributor, simply want to ask for a quote or order a sample of one of our products, you can reach us via the following contact information.

i-SENS, Inc.

43, Banpo-daero 28-gil, Seocho-gu, Seoul 06646, Korea

Tel: +82-2-916-6191

Fax: +82-941-0868

E-mail: inquiry@i-sens.com

Please check availability of those products to the dealer/distributor in your location.



Website

For more information refer to our website:
www.i-sens.com



Website

For more information refer to our website:
www.caresensair.com



YouTube

<https://www.youtube.com/user/caresens>



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