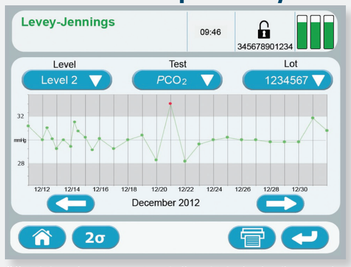
Automated True Liquid Quality Control



QC statistics and reports are automatically maintained and easily accessed.

True, liquid QC provides the only reliable test of an analyser
In the United States, federal government regulations (CLIA) are phasing out electronic equivalent quality control (EQC) and are requiring true, liquid-based quality control. Stat Profile Prime combines both automated, true liquid quality control and continuous electronic self-monitoring to measure lab accuracy and uncompromised quality.

Tri-Level Quality Control Cartridges automate daily QC
Quality Control Cartridges contain a 30-day supply of liquid quality control material. Controls are run automatically at user-selected intervals. This automated system complies with new U.S. CLIA requirements and other regulatory standards.

Saves time and labor
Maintaining quality control is one of the most time consuming aspects of critical care testing. Stat Profile Prime's automated, true liquid quality control saves hours of time each week.

Supplemental Quality Monitoring (SQM)

Stat Profile Prime provides a supplement to liquid quality control. SQM continuously monitors the status and performance of all analytical components (including sensors, reagents, calibrations, sample integrity, software, and electronics) providing real time, sample-to-sample assurance of correct performance.

Compact, Point-of-Care Size

Stat Profile Prime micro-electronics and cartridge system result in one of the smallest and lightest critical care analysers. Stat Profile Prime is so compact it can be located virtually anywhere in the hospital or operated on a mobile cart with battery back-up.

Choice of Stat Profile Prime Models

Five models offer a choice of test menus from electrolytes only to a comprehensive, 10-test blood gas, electrolyte, and metabolite menu.

Electrolyte System

Basic Electrolyte Model
Na, K, Cl or Na, K, Cl, Li

Comprehensive Electrolyte Model
Na, K, Cl, iCa, iMg

Acceptable Samples
Whole blood (heparinized), arterial, mixed venous, capillary, serum, plasma, urine

Sample Volume

Basic Electrolyte Model	50 ul
Comprehensive Electrolyte Model	100 ul

Calculated Parameters
niCa, niMg, niCa/niMg

Critical Care System

Blood Gas Model
pH, PCO_2, PO_2

Blood Gas/Electrolyte Model
pH, PCO_2, PO_2, Hct, Na, K, Cl, iCa

Blood Gas/Electrolyte/Metabolite Model
pH, PCO_2, PO_2, Hct, Na, K, Cl, iCa, Glu, Lac

Acceptable Samples
Whole blood (heparinized), arterial, mixed venous, capillary

Sample Volume

Blood Gas Model	50 ul
Blood Gas/Electrolyte Model	100 ul
Blood Gas/Electrolyte/ Metabolite Model	100 ul

Calculated Parameters
SO_2%, HCO_3-, TCO_2, Be-ecf, Be-b, SBC, O_2Ct, O_2Cap, A, $AaDO_2$, a/A, RI, PO_2/FIO_2, Anion Gap®, P50 ®, Hb®

Temperature Corrected pH, PCO_2, PO_2

*Not available on the Blood Gas Only Model

Optional Accessories

Combined 1D/2D Barcode Scanner:
An optional, factory installed barcode scanner is available for all Stat Profile Prime models. The scanner reads both 1D and 2D barcodes for patient and operator IDs. Quality Control package inserts can also be scanned for lot number and expiration date.

Auto-Sampler:
An optional, factory installed Auto-Sampler is available for Stat Profile Prime Electrolyte models. The ten position tray accommodates serum, plasma, and urine samples in 2.0 ml and 5.0 ml sample cups. The Auto-Sampler is easy-to-load with prompting by the Stat Profile Prime user interface.

StatProfile® pHOx Ultra Analysers

Nova pHOx Ultra analysers measure up to 20 tests from 210 microliters of whole blood, in only 2 minutes. The pHOx Ultra test menu includes blood gases, SO2%, hemoglobin, hematocrit, electrolytes including ionized calcium and ionized magnesium, glucose, lactate, Urea/BUN, creatinine, co-oximetry. Custom configured test menu models are available

Measurement Range:

Na	80 - 200 mmol/L	Li	0.1- 5.0 mmol/L	pH	6.50 - 8.00
K	1 - 20 mmol/L	Glu	0.8 - 28 mmol/L	PCO_2	3.0 - 200 mmHg
Cl	50 - 200 mmol/L	Lac	0.3 - 20 mmol/L	PO_2	0 - 800 mmHg
iCa	0.1 - 2.7 mmol/L	Hct	12% - 70%	BarP	400.0 - 800.0 mmHg
iMg	0.1 - 1.5 mmol/L				(53.3 -106.7 kPa)

Certifications: ISO 9001 Quality System Registration, CSA, TÜV, CE Self Declared Complies to EN 61010, EN 50081,82

Physical Specifications:
Height: 39.06 cm (15.38 in) Width: 30.5 cm (12 in) Depth: 36.20 cm (14.35 in) Weight:17.9 lb (8.167 kg) without calibration cartridge

nova® biomedical

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Specifications subject to change without notice.

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Stat Profile Prime® Critical Care Analyser

New consumer based microelectronics and new technology microsensor cartridges result in a smaller, faster, more powerful and less expensive blood gas/critical care analyser.

nova® biomedical

Stat Profile Prime Technology Delivers Exceptional Value

Stat Profile Prime combines new micro-electronic technology that has revolutionized consumer electronics with Nova's advanced microsensor technology. These two technologies reduce the size, components, cost, weight, and maintenance of Stat Profile Prime. At the same time these technologies improve analyser speed, throughput, and uptime. Stat Profile Prime's 10-test menu, 60-second results, fast throughput, zero maintenance, 24-hour readiness, true liquid quality control, and low cost combine to make critical care testing easy and affordable for any hospital.

10 Critical Tests, Results in 60 Seconds

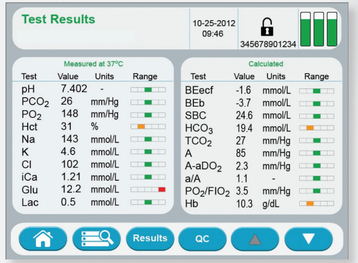
Critical care testing requires instrumentation with a menu of essential tests to affect immediate diagnosis and treatment of critical illness. Equally important is 24-hour instrument readiness and rapid analysis time. Stat Profile Prime is uniquely designed to meet these requirements by delivering a 10-test critical care profile in just 60 seconds.

Essential 10-test critical care menu
pH, PCO_2, PO_2, Na, K, Cl, iCa, Glu, Lac, Hct

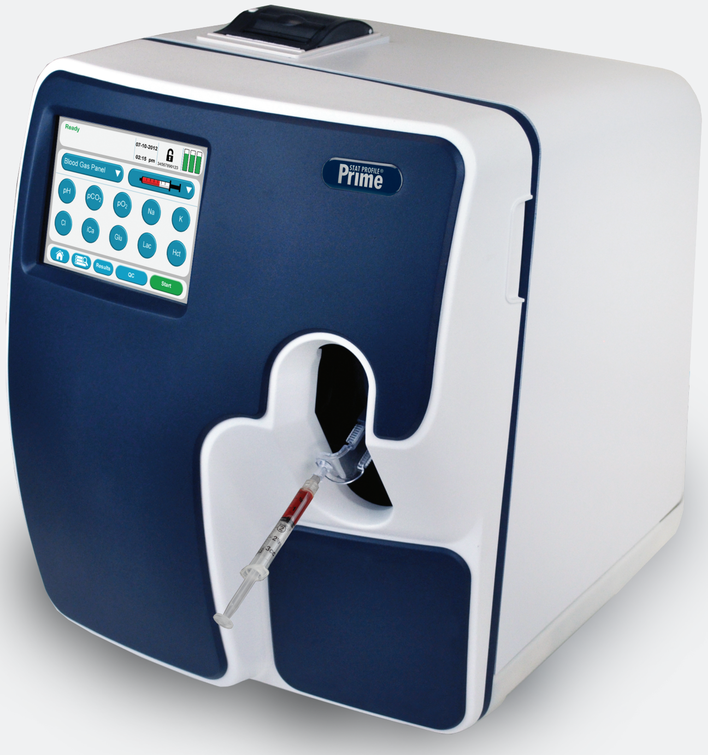
Fast results in 60 seconds

Arterial, venous or capillary micro-samples
100 microliters full menu
50 microliters blood gases

Throughput Up to 45 Samples/Hour



Patient Results Screen



Stat Profile Prime MicroSensor Technology

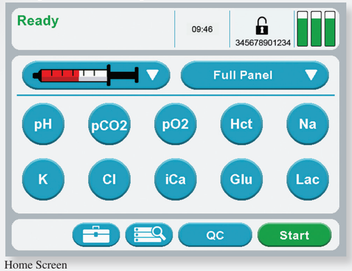
All sensors are contained in one MicroSensor Card. Actual size shown.

Accuracy
All Stat Profile Prime tests use proven Nova methods in miniaturized, sensor card format.

Constant Stat Readiness
MicroSensor Cards have an on-board use life of 32 days. MicroSensor Cards are automatically calibrated and always ready for immediate analysis.

Clot Protection
Our unique Clot Block™ sample flow path is designed to protect sensor cartridges from blood clot blockages.

Simple, Fast Operation



Home Screen

Easy to use, high definition color touchscreen operation
The touchscreen is easily operated through the use of simple and intuitive prompts and requires minimal training.

Three simple steps to initiate a full 10-test profile
1. Press "Start" 2. Scan or enter patient ID 3. Press "Aspirate"

Integrated barcode scanner
An optional integrated 1D/2D barcode scanner, conveniently located within the sample port, eliminates external handheld scanners and allows fast, error free entry of operator and patient IDs.

Easy sampling from syringes, capillaries, tubes, and ampoules
A single sample port is used for all testing; even capillary sampling is performed without adapters.

Nova Cartridges Lower Costs

Nova's unique zero maintenance cartridge system consists of individual cartridges for sensors, calibrators, and liquid QC. This design optimizes the life of each cartridge, improves analyser uptime, and eliminates waste and the resulting higher cost of combined cartridges. For example, an analyser used in a high volume setting will require fewer sensor cartridges than calibrators, and a low volume setting will reverse the ratio. In both cases costs are reduced by using fewer cartridges overall. There is an added savings in analyser uptime when replacing a calibration only cartridge. It has no warm up time compared to a 2-4 hour wait for a calibration/sensor combined cartridge. These reductions in downtime and cost of operation can be significant when compared to the inflexibility of the older generation combined sensor and reagent cartridge systems.

Cartridge Replacement in Seconds
Each cartridge is ready to use and easily replaced in seconds. Cartridge RFID technology automatically captures cartridge installation time, date, lot number, test parameters, and usage.

Safe, Zero Maintenance Waste System
Biohazard waste is self-contained within the Calibration Cartridge, eliminating waste maintenance and potential exposure to biohazardous waste.

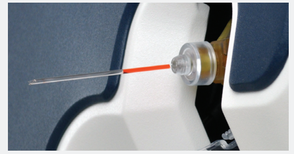
Nova MicroSensor Cards, Calibration Cartridges and Quality Control Cartridges offer a true no-maintenance solution to critical care testing.

MicroSensor Cards Have Fastest Replacement Time
MicroSensor Cards can be replaced, warmed, and calibrated in less than half the time of other cartridge systems and are ready to achieve the full sample throughput of the analyser. Other cartridge systems can take more than one hour to calibrate and still remain unstable with drift, frequent re-calibrations, and reduced throughput for even longer periods of time.

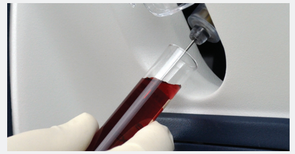
Safe Operation

A unique safety sample port protects the user from accidental contact with the sample probe and is easily accessed for all sample containers.

Syringes can be docked and then sampled with hands-free operation.



Capillary sampling can be performed without adapters.



Samples can be aspirated directly from tubes. Sample transfer to a syringe or capillary is eliminated.

Quality control proficiency ampoules can be sampled without adapters.