



Simplified Veterinary Critical Care Testing



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For Veterinary Use Only.



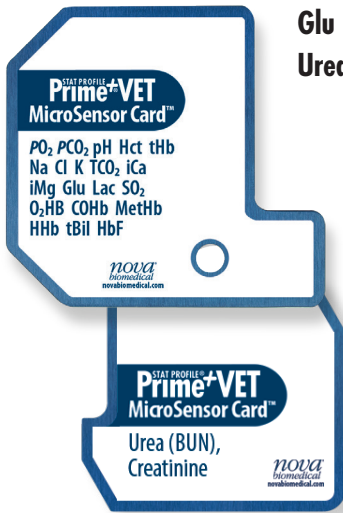


New Technologies Simplify Use and Add New Tests

Stat Profile Prime Plus VET is a comprehensive, whole blood critical care analyser that combines blood gases, electrolytes, metabolites, CO-Oximetry, and 32 calculated results in a simple compact device for up to 10 species. Prime Plus VET combines maintenance-free, replaceable cartridge technology for sensors and reagents with patented, maintenance-free whole blood CO-Oximetry technology. Prime Plus VET results are produced very rapidly—a complete test menu panel in about 90 seconds—and are combined with bidirectional connectivity and a powerful onboard data management system.

Nova MicroSensor Card™ Technology

Most comprehensive critical care menu



**PO₂ PCO₂ pH Hct tHb Na Cl K TCO₂ iCa iMg
Glu Lac SO₂% O₂Hb COHb MetHb HHb tBil HbF
Urea (BUN) Creat**

- All Prime Plus VET biosensors use proven Nova technology in a miniaturised, maintenance-free sensor card format.
- Nova MicroSensor cards combine all 22 whole blood assays including CO-Oximetry.

Important New Assays

Urea (BUN), and Creatinine

Kidney disease is common in cats and dogs. Prime Plus VET is the only veterinary critical care analyser that provides the option of urea (BUN) and creatinine testing, as well as calculated BUN/creatinine ratio.

Ionised Magnesium (iMg)

Disruptions in the balance of iMg, Na, K, and iCa are common in veterinary medicine and can cause cardiac arrhythmias, reduced cardiac contraction, and cardiac arrest. Prime Plus VET is the only blood gas analyser to provide a comprehensive profile of electrolytes including iMg.

Fast Stat Results

Prime Plus VET's exceptional throughput easily handles the high sample workload of a busy practice. Prime Plus VET delivers a 22-test critical care profile in about 90 seconds. Competitors' analysers can require up to four minutes, with fewer tests reported.



Individual Sensors and Calibrators

Lower Costs

Individual MicroSensor cards and calibrator cartridges are a low cost alternative to the inflexibility and waste of combined sensor/calibrator cartridge systems. For example, an analyser in a high workload setting requires fewer sensor cards than calibrators, and a low volume workload setting requires the reverse. In both cases, Prime Plus VET eliminates waste and reduces overall consumable costs by using the full life of each MicroSensor Card and calibrator cartridge.

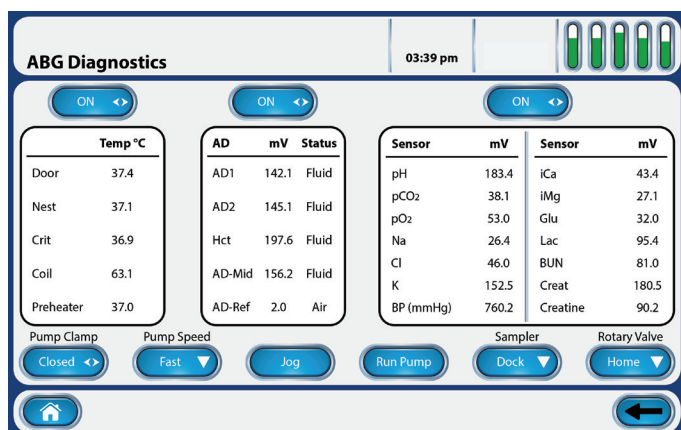
Management Reports for Patient and QC Data, Devices, and Operators

Prime Plus VET is specifically designed to meet practice management requirements by capturing animal testing, QC compliance, and operator records. A large library of reports is available including:

- Patient abnormal/critical results
- Calibration reports
- Levey-Jennings QC reports
- QC cumulative statistics
- Sample comments
- Operator certifications
- Corrective actions
- Calibrator and sensor replacements

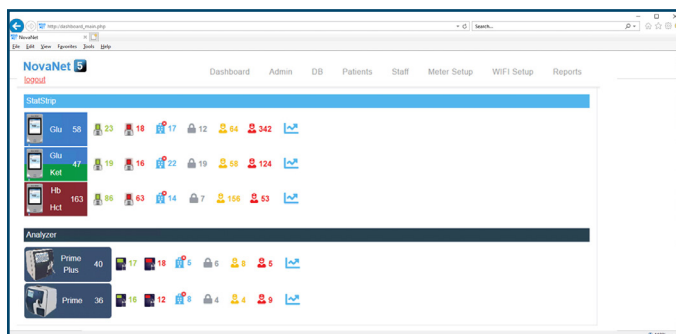
Supplemental Quality Monitoring (SQM)

Prime Plus VET provides an automated electronic quality monitoring supplement to liquid QC. SQM continuously monitors the status and performance of all analytical components (including sensors, reagents, calibrators, sample integrity, software, and electronics), providing real-time, sample-to-sample assurance of correct performance.



Remote Review and Remote Control

The NovaNet remote review and remote control software application runs on your network and provides information including calibration, QC, reagent, and sensor status for all connected Prime Plus VET analysers. The dashboard view allows operators to review the status of all analysers and to correct for calibration or QC needs remotely.



Dashboard review

Individuals with password privileges can view a dashboard of all connected Prime Plus VET analysers from anywhere on the network.

Remote control

Key operators can remotely perform essential Prime Plus VET functions such as:

- Initiate calibration and QC cycles
- Upload or edit set-up parameters
- Assign, certify, or remove operators and privilege levels

Automated, True Liquid QC

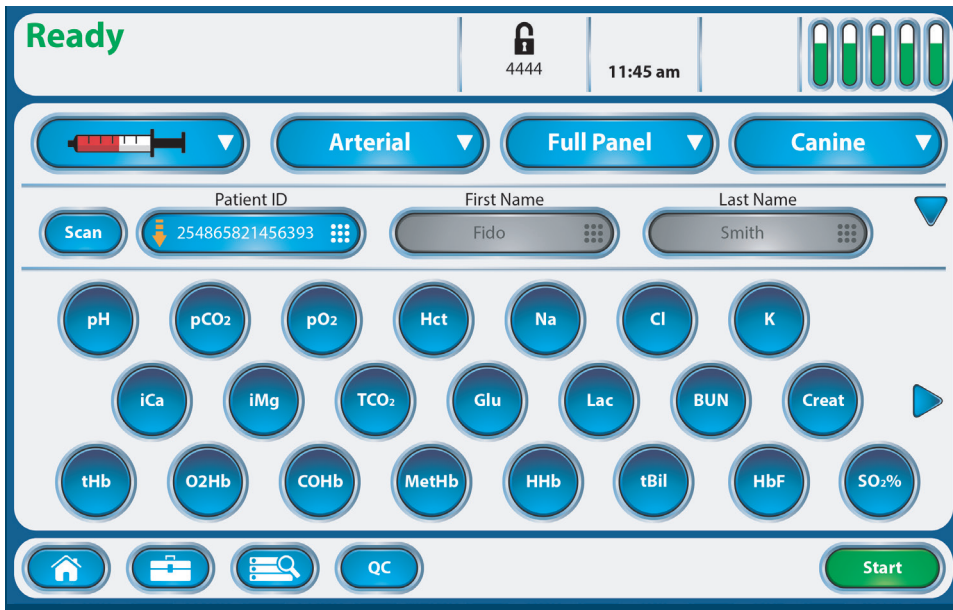
Saves time and labour

Maintaining QC is one of the most time consuming aspects of critical care testing. Prime Plus VET's fully automated, onboard liquid QC saves hours of time each week, compared to manually running controls.

Simple, Fast Operation

High definition, colour touchscreen operation

The large colour touchscreen is easy to read and operate with intuitive prompts.



Three simple steps to initiate a full 22-test profile

1. Press 
2. Scan or enter patient ID
3. Press 

Integrated barcode scanner

The 1D/2D barcode scanner, conveniently located within the sample port, allows for fast, error-free entry of operator and patient IDs. The optional, wireless, external barcode scanner also allows for positive patient ID, further eliminating pre-analytical error.

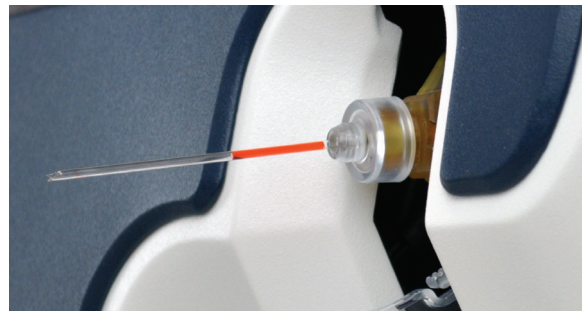


Safety Sample Port

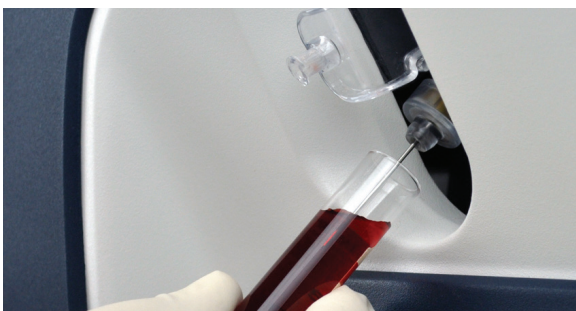
Allows Hands-Free operation for syringe and capillary tubes.



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



Hands-free capillary sampling can be performed without adapters.



Samples can be aspirated directly from tubes, eliminating sample transfer to a syringe or capillary.



QC proficiency ampoules can be sampled without adapters.

Measured Tests

pH	.....
PCO ₂	.....
PO ₂	.....
SO ₂%	.....
Hematocrit	.....
Na	.....
K	.....
Cl	.....
TCO ₂	.....
iCa	.....
iMg	.....
Glucose	.....
Lactate	.....
Urea (BUN)	.....
Creatinine	.....

Methodology

Direct ISE
Severinghaus
Amperometric
Optical, reflectance
Conductivity/Na correction
Direct ISE
Direct ISE
Direct ISE
Calculated
Direct ISE
Direct ISE
Enzyme/Amperometric
Enzyme/Amperometric
Enzyme/Amperometric
Enzyme/Amperometric

Complete Management Reports

- Calibration Report
- Cartridge Log Report
- Daily Sample Log Report
- Edit Log Report
- Error Log Report
- Maintenance Log Report
- Operator Setup Report
- Patient Report
- Levey-Jennings QC Report
- QC Corrective Actions Report
- QC Data Report
- QC Statistics Report
- QC Setup Report
- Sample Audit Log Report

Monitored Interferences

sHb, sulphaemoglobin
(Measured; user alerted if abnormal, > 1.5%)

Measurement Ranges

pH	6.50 - 8.00 (H ⁺ : 316 - 10 nmol/L)
PCO ₂	3 - 200 mmHg (0.4 - 26.7 kPa)
TCO ₂	5 - 70 mmol/L (90 - 1260 mg/dL)
PO ₂	5 - 765 mmHg (0.7 - 102 kPa)
Hct	12% - 70%
Na	80 - 200 mmol/L
K	1 - 20 mmol/L
Cl	50 - 200 mmol/L
iCa	0.1 - 2.7 mmol/L (0.4 - 10.8 mg/dL)
iMg	0.1 - 1.5 mmol/L (0.2 - 3.6 mg/dL)
Glucose	0.8 - 28 mmol/L (15 - 500 mg/dL)
Lactate	0.3 - 20 mmol/L (2.7 - 180.2 mg/dL)
Urea (BUN)	1.1 - 35.7 mmol/L (3 - 100 mg/dL)
Creatinine	10 - 660 µmol/L (0.2-12 mg/dL)
HHb	0 - 33% (0 - 0.33)
O ₂ Hb	0 - 100% (0 - 1)
MetHb	0.3 - 60.0% (0.003 - 0.6)
COHb	0.3 - 60.0% (0.003 - 0.6)
SO ₂ %	30 to 100%
O ₂ Ct	495.04 - 2952.56 µmol/L (5.6 - 33.4 mg/dL)
O ₂ Cap	495.04 - 2952.56 µmol/L (5.6 - 33.4 mg/dL)
tBil	44.2 - 3094 µmol/L (0.5 - 35 mg/dL)
HbF	0 - 92%
tHb	5 - 25 g/dL (50 - 250 g/L)
sHb	Alert > 1.5%
BarP	400 - 800 mmHg (53.3 - 106.7 kPa)

Calculated Tests

A, a/A, A-aDO₂, Anion Gap, BE-b, BE-ecf, BUN/Creat, CaO₂, (C(a-v)O₂), CcO₂*, CvO₂, ΔPV, eGFR, ePV, FO₂Hb, Hb, HCO₃⁻, MCHC, nCa/nMg, nCa, nCa/nMg, nMg, O₂Cap, O₂Ct, OI, OSM, P₅₀, PO₂/FIO₂, Qsp/Qt, RI, SBC, SO₂%, TCO₂, Temperature Corrected pH/PCO₂, PO₂

CO-Oximetry Tests

HHb, deoxyhaemoglobin	O ₂ Hb, oxyhaemoglobin
MetHb, methaemoglobin	COHb, carboxyhaemoglobin
tHb, total haemoglobin	SO ₂ %, oxygen saturation
tBil, total bilirubin	HbF, foetal haemoglobin

Special Calculated Tests (CO-Oximetry Required)

Tests	Resolution
A-v DO ₂	0.1 mmHg (0.01 kPa)
CaO ₂	0.1 mL/dL (0.01 kPa)
CcO ₂	0.1 mL/dL (0.01 kPa)
P50	0.1 mmHg (0.01 kPa)
C(a-v)O ₂	0.1 mmHg (0.001 kPa)
CvO ₂	0.1 mmHg (0.001 kPa)
Qsp/Qt	0.1 mmHg (0.001 kPa)
O ₂ Ct	0.1 mL/dL (0.01 mL/L)
O ₂ Cap	0.1 mL/dL (0.01 mL/L)

Other Features

Full colour 25-cm touchscreen, multilingual, QC statistics, onboard data management, automatic sampler, integrated capillary adapter, optional barcode scanner, QC data storage, optional mobile cart with UPS

Sample Volume

135 µL heparinised whole blood
90 µL heparinised capillary blood

Operating Temperature Range

15°C-32°C (59°F-90°F)

Physical Specifications

Height: 45.7 cm (18.2 in) Width: 35.6 cm (14.2 in)
Depth: 39.1 cm (15.5 in)
Weight: 15.88 kg (35 lb) without reagent packs

Electrical Power Requirement

< 90 Watts

Printer

Onboard thermal printer

Calibration

Fully automatic two-point calibration every two hours;
user-selectable single-point calibration every 45 minutes
or with each sample. Manual calibration initiated at any time.

Acceptable Samples

Animal whole blood (heparinised), arterial, venous, mixed venous, capillary

Communication Protocols

ASTM, HL7, or POCT01-A2 connectivity formats

Compact Size

Dimensions for Prime Plus VET, including onboard CO-Oximetry and built-in bidirectional connectivity:



Weight:

15.88 kg (35 lb) without calibrator cartridge
19.30 kg (42.5 lb) with calibrator cartridge

Other Nova Veterinary Products

Nova VET™ Meter
Glucose, Ketone



StatStrip® Meter
Lactate



StatSensor® Meter
Creatinine, eGFR



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