Complete Data Management and Connectivity

**Onboard Data Management System**
- A standard feature on all StatProfile pHOx Ultra analyzers, it is a complete onboard Data Management System, which ensures the completeness and accuracy of sample results.
- Remotely interface the pHOx Ultra system with LIS, HIS and middleware systems.
- A wide range of connectivity systems including communication protocols for connectivity. These industry standards are used to easily interface pHOx Ultra analyzers to LIS, HIS and middleware systems.

**Analyzer Networking at No Extra Cost**
- Multiple pHOx Ultra analyzers can be networked for connectivity.
- System, allowing data capture and extensive reporting.
- Frequency, operators, and protocols for connectivity. These industry standards are used to easily interface pHOx Ultra analyzers to LIS, HIS and middleware systems.

**Remote Set-up and Control**
- pHOx Ultra offers comprehensive, time-saving remote set-up, control, and review of multiple pHOx Ultra analyzers. From any point on the LAN, a manager can perform the following functions on a remote analyzer:
  - Review reagent cartridge and QC cartridge status
  - Review instrument calibration status
  - Institute a calibration cycle
  - Review quality control status
  - Institute a quality control cycle
  - Enable or disable an analyte
  - Enable or disable operator access

**Connectivity**
- pHOx Ultra analyzers are compliant with industry standard DICOM 7.1 and HL7 communications. CEN-EN 61010 CE markings indicate that these products are used to easily interface pHOx Ultra analyzers to a wide range of connectivity systems including LIS, HIS and middleware systems.

**Stat Profile pHOx® Ultra Specifications**

<table>
<thead>
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<th>Critical Care Test Menu</th>
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</table>
**Best Value for Blood Gas Critical Care Testing**

**Low Cost Critical Care Testing**

pHOx Ultra combines key high sensors plus low cost maintenance to provide the most cost effective critical care testing. pHOx Ultra provides a 20-test critical care profile at a cost equivalent to testing performed in the control laboratory. Other point of care devices that use single test or 30-60 second cartridges can be 3 to 10 times more costly.

The pHOx Ultra comprehensive on-board Data Management System eliminates the high cost of purchasing a separate data manager. The Data Management System allows you to easily exchange data in multiple laboratories. The data exchange of multiple pHOx Ultra analyzers, reducing connectivity and networking costs.

One Analyzer, Up to 20 Tests

No other blood gas analyzer can match the clinical value of the pHOx Ultra system. Only one small, 210 microliter sample in only 2 minutes. Measured tests include:

- pH, PCO₂, PO₂, Na⁺, K⁺, Mg²⁺, Cl⁻, HCO₃⁻, Ca²⁺, Glucose, Urea/BUN, Creatinine, Lactate, Hct, Hb, O₂, CO₂, HHb, COHb, MetHb, tBil, MCV, MCH, MCHC, WBC.

**New High Resolution Color Display**

Star Profile pHOx Ultra incorporates a large high-resolution color display. The large format, bright colors and high resolution provide exceptional viewing, and easy to read graphics and data.

- Limited Maintenance

Sensor of the month pHOx Ultra tests have maintenance-free life expectancies of testing several months to several years. Transmitter-free maintenance-free transmission reduces the time and labor costs associated with maintenance.

- Customized Menus

pHOx Ultra can be custom configured with as few as 5 tests or as many as 20 tests on-board to satisfy the exact test menu requirements of each department. However, the complete test menu does not have to be run on each sample. Up to 30 specific user-defined subsets (panels) can be created for patient populations such as pulmonary, surgical, pediatrics, or emergency care.

Simple Faster Touchscreen Operation

A new streamlined user interface is very fast and easy to use. The test menus are rich with graphic icons and clear textual information. The newly designed menu navigation techniques make a complex procedure look simple. Visual prompting and highlighting provide visual prompting through a simple, easy operation:

1. Select tests
2. Identify the sample
3. Aspirate the sample

**New pHOx Ultra Measured Tests**

**Small Blood Microsample**

pHOx Ultra dramatically reduces the volume of whole blood needed to perform critical care testing. Blood samples can be as small as 60 μl for blood gases, or 210 μl for a complete 20-test profile.

**Results as Fast as 1 Minute**

pHOx Ultra test results and turnaround time are:

- Instantaneous test results are available in fast as 1 minute. A full 20-test panel is available in only 2 minutes.

**Automated True QC**

An automated, true QC system eliminates all user steps involved in the QC process. Star Profile pHOx Ultra combines multiple quality assurance measures to every sample and calibration. pHOx Ultra performs over 40 automatic checks during sample and calibration cycles to verify correct performance of sensors, reagents, robotics, and electronics. The pHOx QC system reports a test parameter only when all 40 performance checks are successful, providing a continued level of quality assurance.

**Exceptional Reliability**

Star Profile pHOx Ultra hardware and software designs are based on the extraordinary reliability and longevity of Nova pHOx analyzers that have been proven in thousands of installations during the last decade.

**Multiple Department Applications**

The consumable whole blood test menu, fast analysis time, and high reliability make pHOx Ultra ideal for multiple testing locations.

- OR, ICU: Provides the most comprehensive menu for managing high acuity ICU, and OR applications.
- Emergency Department: Reduces waiting times for emergency cases, improving patient outcomes.
- Cath Lab: Supports the test workflow of multiple departments.
- Mobile Testing: pHOx Ultra on a mobile cart with battery backup enables it to be moved to any hospital location for out patient testing.

**Automated, Internal Quality Assurance (IQA)**

An Internal Quality Assurance (IQA) system extends quality assurance measures to every sample and calibration. a pHOx Ultra performs over 40 automatic checks during sample and calibration cycles to verify correct performance of sensors, reagents, robotics, and electronics. The IQA system reports a test parameter only when all 40 performance checks are successful, providing a continued level of quality assurance.
Low Cost Critical Care Testing
pHOx Ultra combines low first cost savings plus low cost maintenance to provide the most cost effective critical care testing available. pHOx Ultra provides a 20-test critical care profile at a cost equivalent to testing in the central laboratory. Other point of care devices that use single-test or 30-50 assays suggest that the cost for maintenance and耗材 can be higher than laboratory costs for the same menu.

The pHOx Ultra comprehensive on-board Data Management System eliminates the high cost of purchasing a separate data manager. The Data Management System incorporates on-board networking of multiple pHOx Ultra analyzers, reducing connectivity and maintenance costs.

One Analyzer, Up to 20 Tests
No other blood gas point-of-care analyzer offers the clinical value of the pHOx Ultra, which can perform up to 20 tests on a single sample. Just one small, 210 microliter sample in only 2 minutes. Measured tests include:
- pH, PCO2, PO2, PCV
- Na, K, Cl
- Glucose, Urea/BUN, Creatinine
- Lactate, tHb
- pH, PCO2, PO2, SO2%

Limited Maintenance
Series of twenty full-length tests using the same sample, reagent, and calibrator results in the lowest overall maintenance costs possible. Depending on the tests selected, results are available in as fast as 1 minute. pHOx Ultra test menu and turnaround time give clinicians the test results they need, when they need them.

Customized Menus
pHOx Ultra can be custom configured with as few as 5 tests in as many as 20 tests on-board to satisfy the exact test menu requirements of each department. However, the complete test menu does not have to be run on each sample. Up to 30 specific user-defined subsets (panels) can be created for patient populations such as pulmonary, surgical, pediatrics, or emergency care.

Simpler, Faster Touchscreen Operation
A new streamlined user interface is very fast and easy to use. The new simplified touchscreen is more graphics-oriented and easier to use. The analyzers use multiple levels of pop-up and highlighting to present the visual prompting.

New High Resolution Color Display
Star Profile Ultra incorporates a large high-resolution color display. The large format, bright colors and high resolution provide exceptional viewing, and easy to read graphics and data.

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**PHOX Ultra**

**Best Value for Blood Gas Critical Care Testing**

**Low Cost Critical Care Testing**

pHOx Ultra combines key high-sensor plus low cost maintenance diagnostic parameters to provide the most cost effective blood-gas testing and comprehensive cardiac and metabolic testing. pHOx Ultra provides a 20-test critical care profile at a cost equivalent to testing multiple blood samples in the control laboratory. Other point of care devices that use single-test or 30-50 sensor cartridges can be 5 to 10 times more costly.

The pHOx Ultra comprehensive on-board Data Management System eliminates the high cost of purchasing a separate data manager. The Data Management System provides real-time networking of multiple pHOx Ultra analyzers, reducing connectivity and maintenance costs.

**One Analyzer, Up to 20 Tests**

No other blood gas analyzer can out-value the clinical value of pHOx Ultra. One pHOx Ultra can test up to 20 tests from one small 210 μl sample in only 2 minutes. Other panel test kits are available in less than one minute. Measured tests include:

- pH, PCO₂, PO₂, Glucose
- Na, K, Cl
- Hb, HbO₂, HHb, COHb, MetHb, tBil

**Limited Maintenance**

Simplicity of one-pH Ultra tests have maintenance-free life expectancies of several months to several years. Transferrable maintenance-free life extends testing time and lowers the cost of owning one analyzer for multiple departments.

**Customized Menus**

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**Simple, Faster Touchscreen Operation**

A new touchscreen user interface is very fast and easy to use. The new simplified touchscreen user interface and an enhanced diagnostic edition provide a smooth user experience. Selecting new tests and navigating through the touchscreen have never been easier. pHOx Ultra combines long life sensors plus low cost maintenance.

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**New High Resolution Color Display**

The Color of pHOx Ultra incorporates a large high-resolution color display. The large format, bright colors and high resolution provide exceptional viewing, and easy to read graphics and data.

**Measured 50%, Hb, and Hct on Each Sample Without CO-Oximetry**

A unique technology feature of Nova pHOx analyzers is their ability to measure hemoglobin, hematocrit and oxygen saturation on each sample. Advanced ionized magnesium, ionized calcium, glucose, sodium, potassium, chloride, carbon dioxide, calcium, and sample volume of a CO-Oximeter.

**Optional On Board CO-Oximeter**

When a complete profile of hematoglobin fractions is needed as part of the full blood gas test menu, the addition of the optional CO-Oximeter to a pHOx Ultra provides an excellent opportunity to measure these parameters without the added cost, hardware, and sample volume of a CO-Oximeter.

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Complete Data Management and Connectivity

Onboard Data Management System

A standard feature on all StatProfile pHox Ultra analyzers is a complete onboard Data Management System, allowing for the secure and efficient reporting capabilities, including:
- Storage and retrieval of patient results, patient demographics, QC and method data
- Data entered by name, ID, date, location, or operator
- Patient, QC, utilization and operator reports

Analyzer Networking at No Extra Cost

Multiple pHox Ultra analyzers can be networked together into a single, common database. A supervisor or authenticated operator can access all patient results, QC results and reports from all analyzers. Competition often offers this capability only as an expensive accessory, adding 30% - 40% to the cost of the analyzer.

Remote Set-up and Control

pHOx Ultra offers comprehensive, time-saving remote set-up, control, and review of multiple pHox Ultra analyzers. From any point on the LAN, a manager can perform the following functions on a remote analyzer:
- Review reagent cartridge and QC cartridge status
- Review instrument calibration status
- Issue a calibration cycle
- Review quality control status
- Issue a quality control cycle
- Enable or disable an analyte
- Enable or disable operator access

Flexible or disable operator access

An onboard design, critical ranges, QC ranges, QC frequency, operator test status, instrument details

Connectivity

pHOx Ultra analyzers are compliant with industry standards: CLIA ’88, CLIA ’08, and the NBS communication standard. This connectivity makes pHOx Ultra analyzers easy to interface with pHOx Ultra analyzers or a wide range of connectivity systems, including LIS, HIS and middleware systems.

Stat Profile pHox Ultra Specifications

Critical Care Test Menu (Methodology)

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<td>SPC</td>
<td>Enzyme/Amperometric</td>
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</tr>
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</table>

Complete Management Reports:

- Sample Audit Log Report
- QC Data Report
- Levey-Jennings QC Reports
- Patients Report
- Error Log Report
- Daily Sample Log Report

Specimen Specifications

- Typical Sample Volume: 30-50 microliters micro sample for full panel
- Acceptable Samples: Plasma, serum, whole blood
- Temperature Thermostatting: 20-26°C
- Storage: 2-25°C
- Biological Stability: 12 hours
- Analytical Stability: 1 hour

Critical Care Tests

- SpO2
- Hemoglobin
- Hematocrit

Special Calculated Tests (CO-Oximetry Required):

- [HbO2] 0.1 mL/dL (0.01 kPa)
- [CoO2] 0.1 mmHg (0.01 kPa)
- [O2] 0.1 mmHg (0.01 kPa)
- [O2] 0.1 mmHg (0.01 kPa)
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Other Features:

- Full color, 12.1 inch touch screen, multilingual, QC statistics, on-board data management, automatic sampler, integrated capillary conductivity correction, optional mobile cart with UPS
- Communication protocols: optional mobile cart with UPS
- Specifications: 27.7Kg
- Specifications: 200 Prospect Street, Waltham, MA 02454-9141 U.S.A. TEL: (781) 894-0800  (800) 458-5813  FAX: (781) 894-5915  Int’l FAX: (781) 899-0417
- Specifications: Innovative House, Aston Lane South, Runcorn, Cheshire WA7 3FY United Kingdom TEL: (44) 1928 704040 FAX: (44) 1928 796792 EMAIL: info@novabiomedical.uk
- Specifications: 17 – 2900 Argentia Road, Mississauga, Ontario  L5N 7X9 Canada  TEL: (905) 567-7700  (800) 263-5999  FAX: (905) 567-5496 e-mail: info@novabio.ca
- Specifications: Laxenburger Strasse 33/6, A-1100 Vienna, Austria TEL: (43) 1-603 09 700  FAX: (43) 1-603 09 702 e-mail: office@novabio.at

New Generation pHox Ultra

Best Value for Blood Gas Critical Care Testing

One Analyzer, Up to 20 User Selected Critical Care Tests

New Simplified Operation with Easy to Use High Resolution Touch Screen

Proven pHox Hardware Platform Gives Exceptional Reliability

Specifications subject to change without notice. 


Critical Care Tests

- SpO2
- Hemoglobin
- Hematocrit

Special Calculated Tests (CO-Oximetry Required):

- [HbO2] 0.1 mL/dL (0.01 kPa)
- [CoO2] 0.1 mmHg (0.01 kPa)
- [O2] 0.1 mmHg (0.01 kPa)
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One Analyzer, Up to 20 User Selected Critical Care Tests

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Proven pHox Hardware Platform Gives Exceptional Reliability

Specifications subject to change without notice. 


Critical Care Tests

- SpO2
- Hemoglobin
- Hematocrit

Special Calculated Tests (CO-Oximetry Required):

- [HbO2] 0.1 mL/dL (0.01 kPa)
- [CoO2] 0.1 mmHg (0.01 kPa)
- [O2] 0.1 mmHg (0.01 kPa)
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Complete Data Management and Connectivity

Onboard Data Management System
A standard feature on all Stat Profile® pHox Ultra analyzers is the complete onboard Data Management System that includes extensive connectivity capabilities, including:

- Storage and retrieval of patient results, patient demographics, and QC data
- Data retrieval by name, ID, date, location, or operator
- Patient, QC, and operator reports
- Multiple pHox Ultra analyzers can be networked to a LAN, providing data capture and reporting from any point on the LAN, a manager or authorized operator can access all patient results.
- The Stat Profile® pHOx Ultra allows comprehensive, time-saving remote operation, adding 30% - 40% to the cost of the analyzer.

Analyzer Networking at No Extra Cost
Multiple pHox Ultra analyzers can be networked to a LAN, providing data capture and reporting from any point on the LAN, a manager or authorized operator can access all patient results, QC results, and data from all analyzers. Comprehensibility often offers this capability only as an expensive accessory, adding 30% - 40% to the cost of the analyzer.

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- Enable or disable an analyte
- Enable or disable operator access

Available Trending options, critical ranges, QC ranges, QC methodology, frequency, operator, test module, instrument details

Connectivity
pHox Ultra analyzers are compliant with industry standard DICOM 7.1, HL7, and DICOM 8.0 communication standards. Extensive connectivity capabilities are included in every unit to easily interface pHox Ultra analyzers to a wide range of connectivity systems including LIS, HIS, and middleware systems.

Stat Profile pHox Ultra Specifications

Critical Care Test Menu (Methodology)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Methodology</th>
</tr>
</thead>
</table>
| CO2 | Direct ISE, Optical, reflectance
| PCO2 | Conductivity/Na+ + correction
| pH | Enzyme/Amperometric
| BE | Optical, reflectance
| TCO2 | Conductivity/Na+
| CaO2 | Optical, reflectance
| pH/PCO2/PO2 Corrected to Patient Temperature | Optical, reflectance
| Respiratory Index (If % FIO2 value entered) | Optical, reflectance

Enable or disable all analytes, test menu, instrument defaults

Full color, 12.1 inch touch screen, multilingual, QC statistics, built in thermal printer, patient, QC, and operator reports

Complete Management Reports:
- Sample Audit Log Report
- QC Setup Report
- QC Statistics Report
- QC Data Report
- Levey-Jennings QC Reports
- Operator Setup Report
- Maintenance Log Report
- Edit Log Report
- Cartridge Log Report

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