



Clinical Systems

 Q-lineBiotech

*Spreading Healthiness!*

# THE SMARTEST CHOICE FOR YOUR GROWING LABORATORY NEEDS



**Selectra ProS™**



SelectraSolutions

# New Selectra ProS Lite

The latest in the Selectra Pro Series, the Selectra ProS Lite is the most compact, fully featured system with enhanced performance and best in class operator interface. New system features enable significant productivity and performance enhancements not typically found in BenchTop Chemistry Analysers



## New Design to enhance stability, performance and reliability

Improved level sensing and metering performance and better reagent thermal control.



## On-board cuvette wash station that minimises disposable costs

The highly efficient wash station consumes very less water while ensuring negligible carry-over. Result reproducibility is enhanced while errors are reduced.

## Optimized with ELITech Clinical Systems Reagents

When combined with the broad new ELITech Clinical Systems test menu, the innovative system design increases the userfriendliness and efficiency of the Selectra ProS. The enhanced reagent supply provides flexibility in reagent containers and increased on-board stability.



## Bar code reader: test requisition, sample and reagent identification

Optional reagent and patient bar code further simplifies operations and eliminates potential errors.

## Network and Host Facilities

The use of an external operator console easily enables the integration of the Selectra ProS to a local network.

Bi-directional host connection allows the system to receive instructions and to transmit data to the data management system..



**SELECTRA** *PRO S* **LITE**

# Designed to deliver trouble free results laboratories can trust

## Improved Laboratory Operations

With random access throughput of typically 133 tests per hour, the Selectra ProS system is the ideal BenchTop workhorse for primary, STAT or back-up testing needs. This system offers minimal maintenance and effective use of consumables to truly reduce operational cost



### Sampling probe with integrated mixer and level sensing

The unique sampling probe streamlines sample and reagent level sensing, aspiration and mixing. That reduces complexity, enhances uptime and provides collision protection.

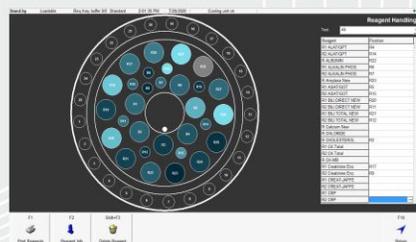


### Separate pipettors for Reagents and Sample for optimised dispensing

High accuracy even when working with micro volumes. Reliable long-life syringes, reducing recurring maintenance costs.

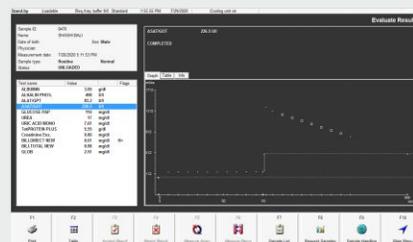
### Simplicity

The simplicity of the software allows a skilled technician to operate the Selectra ProS within an hour. Interactive and intuitive routines lead the operator to the results quickly. The system maintenance instructions are integrated in the software.



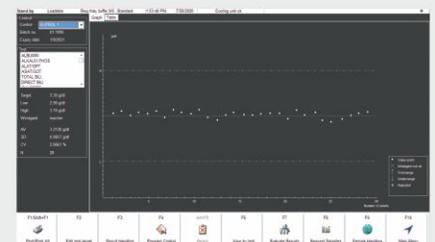
### Three Reagent System

The software supports a "three reagent system". This feature makes the Selectra ProS the ideal platform for special applications or sample pre-treatment steps.



### On-Board Quality Control

Stored QC results are easily displayed on the screen. The software calculates the mean, std. dev. and coefficient of variation. Validation using Westgard rules and a display of the Levey - Jenning plot are also included.



# Simplicity that Drives Productivity



## SPECIFICATIONS

### THROUGHPUT

- Up to 133 photometric tests / hour;

### REAGENT AND SAMPLE SYSTEM

- One rotor combining both sample and reagent positions;
- Inner rotor ring:
  - 30 refrigerated reagent positions for 10 ml, 25 ml and 50 ml reagent bottles;
  - Cooled to 10°C +/-4°C at normal laboratory conditions;
  - All reagent positions can be assigned as R1, R2 and R3;
- Outer rotor ring:
  - 25 positions;
  - All positions fit 13x75 mm primary and secondary tubes and pediatric cups;
  - All positions can be used for Calibrators, Controls, Normal, Pediatric and STAT samples.

### PIPETTING SYSTEM

- 1000 µL Reagent syringe:
  - R1 volume 110 - 400 µL;
  - R2 volume 0 - 180 µL;
  - R3 volume 0 - 180 µL;
  - Programmable in 1 µL steps;
- 100 µL Sample syringe;
  - Sample volume 2-30 µL;
  - Programmable in 0.1 µL steps.
- Programmable dilution ratios 1:5 up to 1:200 in one step increments with 3 possible diluents;
- Pre-heated probe with level detection, collision protection and integrated mixer.

### CUVETTE ROTOR

- Cost effective, semi-disposable cuvette rotor with 48 cuvettes, path length 7mm;
- >10,000 tests per rotor;
- Typical reagent consumption 250 µL per test;
- Measuring temperature 37°C, controlled by Peltier elements.

### LIGHT SOURCE

- Quartz-Iodine lamp 12V-20W.

**\*Accessories shown are not standard part of the instrument.**

### PHOTOMETRIC RANGE

- -0.1 to 3.0 Absorbance;
- Resolution 0.001 Abs.

### WAVELENGTH RANGE

- 340 - 800 nm;
- Optical unit with 8 position filter wheel;
- Automatic wavelength selection;
- 340, 405, 505, 546, 578, 620, 660, 700 nm standard installed;
- Other wavelengths available on request.

### ANALYTICAL MODES (SINGLE, DUAL AND TRIPLE REAGENT SYSTEM)

- Kinetic measurement with linearity check;
- Mono-and bichromatic end point measurement with or without bichromatic reagent blank and/or sample blank correction;
- Two point measurement; with or without slope blank;
- Graphic plot of all measuring points;
- Predilution and automatic reflex dilution as needed;
- Non-linear calibration curves;
- Prozone check for immunology tests;
- Cut-off declaration;
- Calculated tests.

### QUALITY CONTROL

- Up to 15 different controls can be defined, 3 per test;
- Westgard rules;
- Levey-Jennings plots;
- Quality control statistics.

### WATER CONSUMPTION

- ~950 mL per hour max, during continuous operation.

### STANDARDS AND REGULATIONS

- CE - IVDD
- USA FDA 510(k)
- CB
- UL

### DIMENSIONS (BENCHTOP UNIT)

- 90cm (36in) x 75cm (30in) x 60cm (24in) (W x H x D);
- Weight: 75 kg (165 lbs.).

### INTERFACE

- State of the art Host-Query interface available;
- Host: RS232 or Ethernet (TCP/IP) through LIS-2A protocol.

### ENVIRONMENTAL CONDITIONS

- Temperature: 15 – 32 °C (59 – 90 °F);
- Humidity: 15 – 85% RH;
- Altitude: up to 2000 m;
- Plumbing: No dedicated system water or drain required;
- Electrical:
  - Voltage: 100 – 240 Vac;
  - Frequency: 50 – 60 Hz;
  - Power (max): 350 VA.

## OPTIONS

### DESKTOP SYSTEM PC

- Monitor, CPU, Keyboard and Mouse;
- Operating System: Windows™ XP.

### BAR CODE READER

- Hand held CCD bar code reader used for test requisition, reagent identification.

### PRINTER

- Printer supported by MSWindows™.

|                     |   |
|---------------------|---|
| General Chemistries | ALT, AST, ALP, LDH, G-GT, CK-NAC, CK-MB, Amylase, Lipase  |
|                     | Albumin, Uric Acid, Bilirubin Total, Bilirubin Direct, Cholesterol, HDL Cholesterol, LDL Cholesterol, Creatinine, Glucose, Total Protein, Microprotein, Triglycerides, Urea |
|                     | Calcium, Magnesium, Phosphorus, Iron, TIBC/UIBC   |
| Special Chemistries | HCY, ADA, PCT, Vit-D, ACE   |
| Specific Proteins   | HbA1c, CRP, APO A1, APO B, Microalbumin, Transferrin, IGA, IGG, IGM, Prealbumin, Haptoglobin, RF, ASO, Ferritin   |

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