PROMILITE III

The **PromiLite III** the flagship in Promicol´s family of luminometers, a very compact, desktop, PC-controlled micro-plate luminometer. The **PromiLite III**, features a low-noise single photon counting photo multiplier for highest sensitivity, in conjunction with a unique mechanical design and geometry.

PromiLite III is offered in a standard form with twin injectors, the hardware supports additional options for a third or fourth injector. All the injector tubings are external to the instrument, allowing simple replacement and minimising reagent usage during priming. The robustly designed **PromiLite III** incorporates a separate aspiration pump with its own waste outlet for cleaning the reagent injector systems

The uniquely designed detector head allows for two injectors in pre-position, and two in the measurement position. These features coupled with Promicol´s reagent technology have gained significant improvements in sample through-put, allowing up to 700 samples per hour depending on the application.

The **PromiLite III** is operated via Promicol's propriety PC software Proscreen, a windows based program running under Windows XP®.
Proscreen offers User mode and password protected Administrator mode to provide unrivalled security during operational use and improved Data security; combined with a very simple and flexible set-up of the measurement procedures.

Colour coded intelligent reagent tracking displays the amount of available reagent for measurements which warns if the amount of available reagents for measurements is insufficient.
Data files can be searched quickly and simply by any combination of date, product, protocol, or only for sample Fail & Re-test values. Data can easily be exported to spreadsheets and automatic backup and archive features protect the database.

Promicol has developed fully automated Robotic Sampling Systems capable of processing thousands of samples on a daily basis and is fully integrated via the Proscreen software to the **PromiLite III**. The complete system utilizes bar code readers to provide the user with unrivalled fully automatic sample identification from the original sample package, to the microplate and automatic transfer of all data to the Proscreen database.

The **Promilite III** together with test kits from the Promicol range are specifically tailored to meet the demanding testing requirements for:

Cosmetic & Toiletries
Dairy UHT and ESL Products
Fruit Juices
Wines and Beverages
Foods, Soups and Sauces
Soya Beverages
Rinse Waters and Biomass
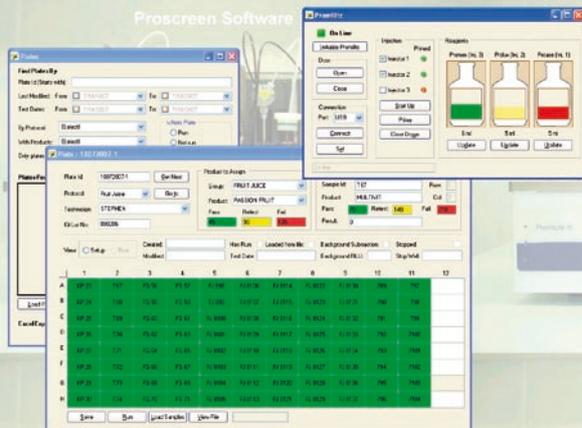
TECHNICAL SPECIFICATIONS

Sample format: 96 well microplate, opaque in solid or strip format.

Detector: Photomultiplier tube with bi alkali cathode, effective spectral sensistivity range 300 – 630 nm, operated in photon counting mode.

Sensitivity: 20 attomole ATP.

Crosstalk: Less than 3 x 10-5

Dynamic range: 6 decades Measuring

Measurement time: 0.1s – 100s per well.

Injectors: Two injectors standard. The hardware supports up to four injectors. Two injectors in pre-position, two in measurement position.

Injection volumes: 50 - 200ul.

Tubing: Chemically inert PTFE tubing and connectors (PTFE; KEL-F; Glass; PS), easily exchangeable liquid handling system and tips. Minimal dead volume due to short reagent lines.

Shaker: Linear and orbital shaking with duration and repeat interval.

Automation: Compatible to all known microplate transfer devices and Promicol ASTS Robot.

Interfaces: Serial interface (RS-232) and USB interface for PC.

Dimensions: W 380mm, D 395mm, H 260mm.

Weight: Approx 20Kg.

Power: 230 V, 50Hz; 115V 60Hz.

Power consumption: 30 VA, maximum approx 60 VA (4 injectors).

Operating temperature: 10ºC – 30ºC.

Humidity: 10% - 80% (no condensation)

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