**Description**

Petrilyzer is an automatic colony counter for efficient and accurate counting of culture plates. Colony counting is an important quality control factor in hygiene and microbiological studies. Petrilyzer automates this process in order to save time (up to 88%), improve documentation (results and an image of each plate are saved automatically), consistency, productivity and better working environment.

Petrilyzer is made of solid aluminium and stainless steel, which gives a feeling of quality and robustness. The lighting is specially designed to maximize contrast and the LED light source provides reliability and low power consumption.

**Installation and usability**

- Easy installation
- User friendly interface: Learn how to use the products in few hours
- Online and phone support

**Testimonial**

“We used to take 2 hours for counting of bacteria colonies, with the Petrilyzer we now do it in just half an hour” Pia Rasmussen, Lab technician, Christian Hansen A/S

**Petrilyzer features**

- Fast accurate counts of bacterial colonies (~8 sec. sample)
- Most plate types can be analyzed (pour plates, spread plates, surface plates, filter membrane, CompacDry, Petrifilm)
- Automatic shape recognition (neural network classifier that can be trained)
- Automatic data saving in spreadsheet and database format
- Statistical display of results
- An image of each plate is stored together with the results
- Data is stored for audit purposes or FDA 21CFR Part11 compliance
- Compatible with Windows XP, Windows Vista, Windows 7

**Specifications**

- Lighting: Waterproof LEDs, lifetime more than 10,000 hours
- Camera: USB CMOS industrial machine vision colour camera, 1.2 Megapixel resolution (1280x960 pixels). Optional: 5 Megapixel camera (2560x1920 pixels)
- Design: Closed device prevents interference from external lighting
- Plate handling: Semi-automatic plate handler
- Diameter: 25 cm, height: 34.5 cm
- Materials: Anodized aluminium and stainless steel
- Optional: Sony Vaio notebook with Petrilyzer software installed
- Optional: Integrated barcode reader

Samples are stacked in a holder and pushed into the light box one by one. When the sample is in place, the Petrilyzer software grabs an image. Image analysis is performed by a simple click. Within seconds, results are displayed in a table and histogram. Comparison between automatic and manual counts showed excellent correlation.