

# PROTOS 3



ACCURATE AUTOMATED COLONY  
COUNTING, AND CHROMOGENIC ID  
IDENTIFICATION

# Key Features

**"PROTOS 3  
- SOLVING YOUR  
COUNTING AND  
IDENTIFICATION  
NEEDS"**

Model	PROTOS 3
Design	Light-weight, ergonomic system with sliding doors
Camera	Integrated Camera: 1.4 megapixel CMOS with f1.5 lens
Dimensions (WxHxD) cm	45x50x40
Weight (kg)	20
Power Input (V)	100 - 240
Validation Documents	IQ/OQ/PQ Application specific validation plates

## Flexible

The Protos 3 is a compact, automated powerhouse capable of counting on pour plates, spiral plates, as well as running dilution series and identification on chromogenic media. With a range of software capabilities and accessories, you can cost-effectively customise your Protos 3 to suit your laboratory's needs.

## Accurate

Protos 3 features unique three-colour lighting for unrivalled illumination of all colony and zone types. The system's high-resolution camera captures high-quality colour images, ensuring that you can generate precise, reproducible colony count and chromogenic identification data.

## Fast

Whether you're counting pour plates, spiral plates, or a dilution series, at the press of a button, you can automatically read plates of up to 150mm in diameter to count colonies as small as 43µm.

## Traceable

Protos 3 is compatible with barcode readers. Results can be automatically exported into an Excel spreadsheet, OpenOffice, PDF, or transferred to your LIMS. Data is traced with a variety of audit trails making the Protos 3 suitable for regulated microbiology laboratories.

# System Features

## Integrated Software

The Protos 3 comes with simple, user-friendly software, which has pour plate, spiral plate, chromogenic ID, and dilution series modules included and ready to go. Audit trails can be easily exported into Excel, PDF, and OpenOffice.

## High-Quality Camera

Our sensitive camera allows you to easily detect colonies as small as 43um within a matter of seconds. The Protos 3 comes with a 1.4-megapixel camera.

## Unique Lighting

Using the patented three-colour LED lighting, your plate is imaged in red, green and blue with an automated self-calibration process ensures accurate colour definition with each image.

## Versatile Platform

The sample platform has interchangeable backgrounds for using bright-field or dark-field exposures. The platform can read circular plates up to 150mm and square plates up to 120mm x 120mm. For plates larger than 150mm, please contact Synbiosis directly for further information on our custom solutions ([sales@synbiosis.com](mailto:sales@synbiosis.com)).

## Ergonomic Design

The lightweight and compact Protos 3 cabinet features two sliding doors to prevent excessive ambient light from affecting your image.

## High Throughput

The Protos 3 is perfect for high throughput applications where you need to count colonies rapidly and accurately. At the touch of a button, you can read up your plate in seconds, with results and images being instantly saved to your chosen location.



# Application Modules

At the heart of every Protos 3 is versatile software, which includes Pour Plate, Chromogenic Identification, Spiral Plate, and Dilution Series modules as standard.



## Protos 3 Modules

### Pour Plates

Counting colonies on pour, settle and spread plates. This method is for applications including microbial limit testing, total viable counts, and pour plate dilution series. You can also count colonies on membranes such as bioburden testing.

### Spiral Plates

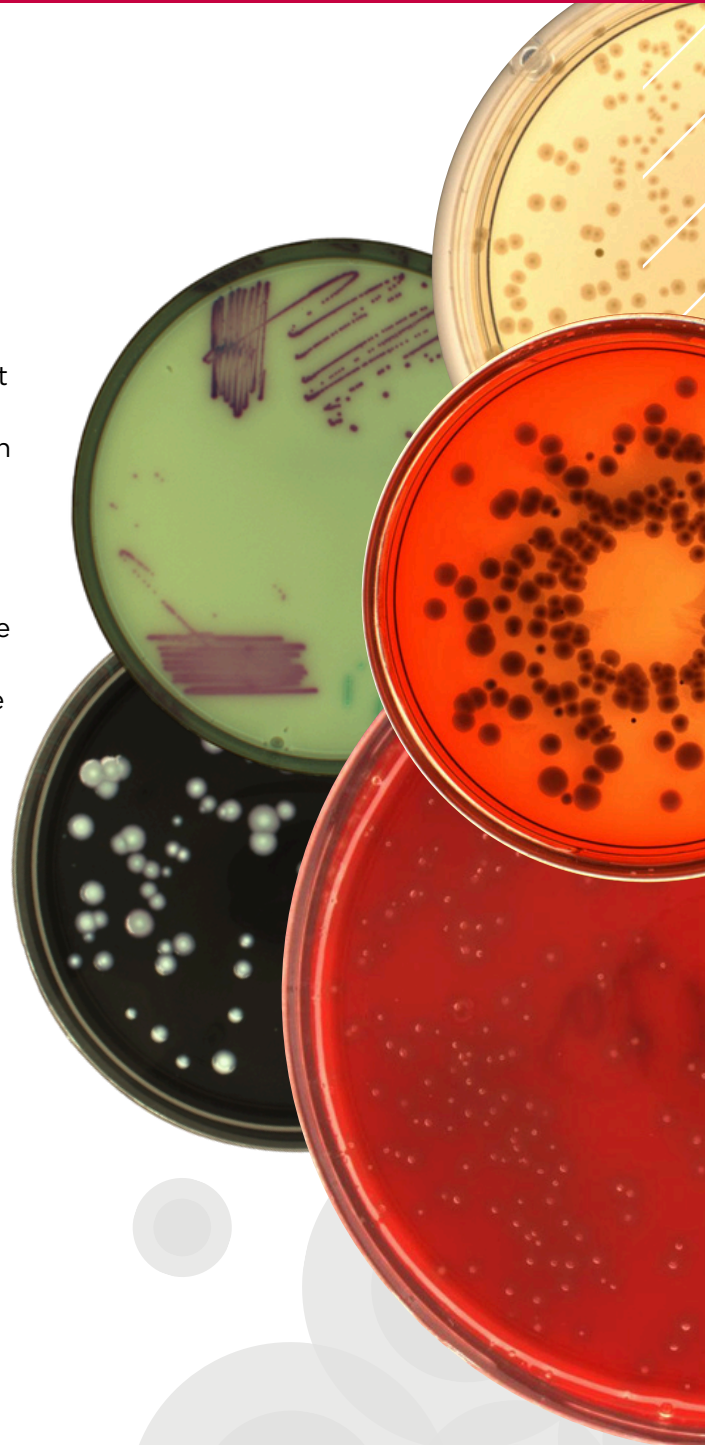
Your colonies can be counted on spiral plates that have been set up using all major spiral plate manufacturers. The Protos 3 software will use limits determined by the user along with recognised spiral data to give sector values and results automatically.

### Dilution Series

When running a series dilution across multiple plates, the Protos 3 software is capable of counting the colonies on these plates, presenting the data and statistics alongside the users selected and customisable dilution values.

### Chromogenic ID

Chromogenic ID allows you to automatically identify microbes on chromogenic agar from many of the major media suppliers. Producing results efficiently and accurately with unique module specific reports.



# Providing innovative imaging and analysis systems for the microbiological process



## About Synbiosis

Synbiosis is part of the Synoptics family, with over 35 years of experience designing and producing scientific instruments based on digital imaging technology.

At Synbiosis, we are passionate about making colony counting and zone analysis easier. That's why we have developed products specifically designed to automate colony counting and inhibition zone measurement to relieve you of the tedium involved with these repetitive manual tasks.

Our unique, ground-breaking technologies and practical experience have been applied to various companies' needs, from pharma to microbiology. We want to partner with companies requiring unique versions of our existing products or completely new designs. If you have a challenge for us, book a demo!



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