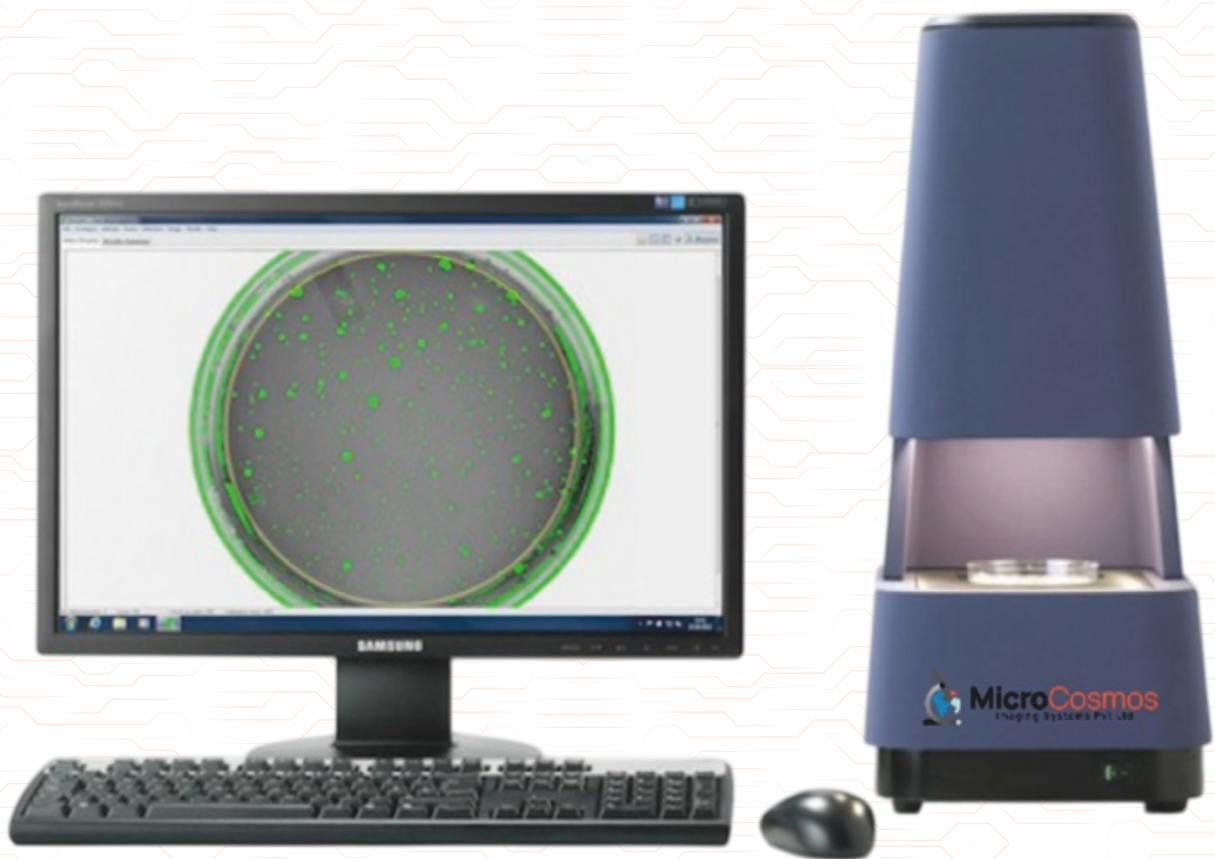




MicroCosmos
Imaging Systems Pvt Ltd

Advanced Automated Colony Counter (Model: Cosmo – Micro-BioCount2210)



A. Hardware

A. 1 Digital Color Camera (12.4 Mega pixel) USB 3.0
Model: DeXel-CAM (Made in Germany)

A. 2 Transmitted and Reflected (Dome) Light
Uniform LED ring lighting with white or RGB options. Light compatible with black and white background, Bright-Field Dark Field, glare-free illumination.

B. Automated Colony Counting Software on Petri Dish

Advanced software to identify, count and measure colonies (Bacterial and Fungal) on petri dish.

- **Plate Size Compatibility:** Ø 55 mm to Ø 90 mm (standard Petri dishes)
- **Counting Time:** ~2 second per plate
- **Media Types:** Pour Plates, Surface Plates, Chromogenic Dishes, RODAC Plates and Filter Membranes
- **Colony Detection:** 0.1 mm diameter with adjustable detection threshold, Color, size, shape, and contrast-based recognition.
- Special algorithm to separate and count connected colonies.
- **Counting Modes:** Automated and Manual Mode
- **Results Export:** CSV, Excel, PDF(in case of 21CFR only PDF Export)

C. 21 CFR compliance features

1. **User Policy** - System access is controlled by authorized users with Unique ID and password
2. **Password policy** - Password Length, password complexity, auto logoff time
3. **Audit trails** - System generated user readable and printable audit trails for activities performed in software. Audit trails shall be date and time stamped.

4. **Roles and privileges** - System has predefined roles namely Administrator, Manager, Supervisor, Analyst, Service engineer.

5. Data backup/restore

6. User readable and non-editable reports

7. **Qualification documents** - System comes with IQ, OQ and PQ documents

D. Calibration & Accuracy

System Calibration and Validation

- Calibration of the system with NPL traceability
- Standard particle slide for result validation

