

3500Ai

Automatic colony counter



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

3500 Ai is an automatic colony counter, suitable for all Petri dishes and culture media. Its indirect lighting system ensures ease of use, high precision and excellent reproducibility. The power of Artificial Intelligence boosts Petri dishes analyses with unrivalled speed and precision.

3500 Ai is also an inhibition zone ultra HD reader, designed for the pharmaceutical, medical research and animal health industries. 3500 AI is compatible with 120 mm square and round plates up to Ø 150 mm.

Reading Inhibition Zones :

- Antibiotic disc detection: Automatic, with manual option to add or remove antibiotics
- Automatic detection of antibiogram support: Disks (several brands simultaneously), wells, peni-cylinder (steel, plastic)
- Display resolution: ± 0.1 mm
- Accuracy of antibiogram measurement: ± 0.1 mm
- Number of antibiotic paper disks: up to 16 antibiotics on a 120 mm square Petri dish
- Reading time: 16 inhibition zone reading between 2 and 4 s
- Interpretation system: CA-SFM Human Health / EUCAST / CA-SFM Veterinary / CLSI (Clinical, Laboratory Standards Institute) / Customizable list

Overview:

- Painted stainless steel shell
- LIMS/SIL connection
- USB connection
- Available with dataLink / dataLink pro traceability system
- Counting on pour, surface, Spiral and circular plated Petri dishes
- Counting on chromogenic dishes
- Inhibition zone reading
- Counting on 100% of the Petri dish
- AI-powered colony counting
- Automatic detection of Petri dishes
- Counting on Petri dishes up to Ø 150 mm

Counting:

- Counting: automatic with manual control (add or remove colonies)
- Automatic separation of clustered colonies
- Creation of polygonal exclusion zones
- Classification of bacteria, yeasts and molds
- Counting time up to 1000 colonies per second
- Minimal size of colony: 0.03 mm

Traceability :

- USB Data export: SCA recountable session, PDF report, JPG, PNG and BMP images, compatible CSV text.
- Data security: Modified data traceability in conformity with 21CFR Part 11
- Results/traceability: image /sample number & antibiotic name/bacterium name/diameter read / SIR-categorized result with color code / minimum and maximum critical diameter / comments / date / time

Specifications :

- Ultra HD CMOS color camera HD lens
- Zoom x 69
- Resolution (megapixels): 12.2
- White LED lighting technology: White LED Dome indirect lighting
- LED lighting system: automatic with 7 combinations, top and/or bottom light, black or white background
- Petri dishes: Ø 55 to Ø 150 mm and 120 mm square Petri dishes
- Color detection: 4 colors on the same dish + 2 colors to exclude
- Languages: English, French, Japanese, Russian, Spanish, German
- Supply voltage and frequency: 100-240 V~ 50-60 Hz
- Fuses: T3.15 A L 250 V 5x20 mm
- Max. power: 140 W
- Machine protection marking: IP00

PC Minimum Requirements:

- Operating system: Windows 10 or 11 (or higher)
- Processor: Intel i7, 2.8 GHz or higher (i9 or xeon gold)
- Graphics card: Nvidia RTX 3060 or 4050 (or higher, Nvidia brand only)
- RAM: minimum 16 GB for use of Scan
- Features: 1 free USB 3.0 port
- Screen: 1920 x 1080 pixels (or higher)

Weights & Dimensions

Dimensions (W x D x H): Scan	46.4 x 46.4 x 63.1 cm
Net weight: Scan	25.15 kg
Gross weight: Scan	32.50 kg
Box (W x D x H)	80 x 60 x 63 cm

PC Minimum Requirements:

- Optical cleaner + wipes
- Barcode reader

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Our Products & Technologies



LCMS



Automated Prep-Flash Chromatography system



Maldi TOF



Optima Gas Chromatograph



Flash Chromatograph



DAC Column



GCMS 3068



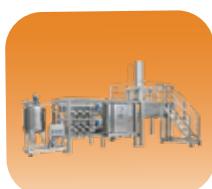
UHPLC



HPTLC



Ion Chromatograph



Production HPLC



HPLC



Column



DLS



Water purification system

▶▶▶ Regulatory compliances



▶▶▶ Corporate Social Responsibility

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Analytical Foundation

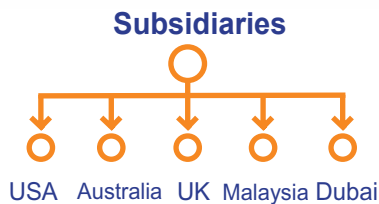
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2. Improving quality of life by offering **YOGA Training courses, Work shops / Seminars** etc.

3. **ANALYTICAL FOUNDATION** aims to DETOXIFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Naturecure, Health Care, Ara, Events, Camps etc.

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HPLC Solutions	MultipleLabs	Infinite Multiplelabs LLP	Analytical Bio-Med	Analytical Foundation (Trust)
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Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E :- info@analyticalgroup.net
info@hplctechnologies.com
info@multiplelabs.com

W:- www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com

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