



# Manual Colony Counter

## LMMCC-A100

Operational Manual

**Index**

<b>Sr.no</b>	<b>Title</b>	<b>Page no</b>
1.	<b>Safety Measures</b>	2
2.	<b>Introduction</b>	3
3.	<b>Features</b>	3
4.	<b>Specifications</b>	3
5.	<b>Applications</b>	3
6.	<b>Operations</b>	4

## 1. Safety Measures

- The instrument should be placed on a flat and firm surface for use.
- When the number of colonies in a Petri dish exceeds 300, the test sample should be diluted and redone to ensure counting accuracy.
- There is a pressure sensor in the counting cell. After the counting is completed, remove the culture dish in time. Do not put objects over 500g in the counting cell for long.
- The instrument should be protected from moisture, violent vibration, direct sunlight, acid and alkali corrosion, and a dust cover should be added after use.
- Take care to prevent bacterial culture from contaminating the counting cell.
- Non-professionals should not disassemble this instrument.

## 2. Introduction

**Manual Colony Counter LMMCC-A100** features a broad counting range from 0 to 999 and is compatible with petri dish sizes from 50 mm to 90 mm. It operates within a temperature range of 5°C to 50°C to maintain optimal conditions. It is integrated with an LED display for clear and easy-to-read measurements.

## 3. Features

- IP21 protection glass
- Equipped with auto marker probe pen
- Compact and durable
- Audible feedback on colony detection

## 4. Specifications

<b>Model No.</b>	<b>LMMCC-A100</b>
<b>Compatible Petri Dish Size</b>	50 to 90 mm
<b>Counting Range</b>	0 to 999
<b>Digital display</b>	3 digit
<b>Lighting</b>	Matrix LED white light
<b>Magnification</b>	3 - 9 times
<b>Permissible ambient temperature</b>	5 °C to 50 °C
<b>Relative Moisture</b>	80 %
<b>Protective Class</b>	IP21
<b>Voltage</b>	AC 100 - 240 V; 50 / 60 Hz
<b>Power</b>	20 W
<b>Dimensions</b>	255 × 210 × 160 mm
<b>Net Weight</b>	2.2 Kg

## 5. Applications

Manual Colony Counter accurately counts the number of colonies and is widely utilized in microbiology research, clinical diagnostics, food and beverage industry, environmental testing, and pharmaceutical industry.

## 6. Operations

- 1) Turn on the power, turn on the switch, and the display shows “000”.
- 2) Put in the petri dish to be observed.
- 3) Adjust the side red sensitivity adjustment knob (clockwise to increase sensitivity and counterclockwise to decrease sensitivity), select the appropriate touch pressure sensitivity (increase sensitivity to a certain degree, the buzzer may continue to sound, this is normal, rotate it counterclockwise 5 degrees more).
- 4) Press the “**Reset**” button to perform count-zero calibration.
- 5) Press the red switch on the side to turn on the light of the counting cell and adjust the white knob on the side (Clockwise to brighten the brightness, and counterclockwise to dim the brightness) to select the desired brightness.
- 6) If the light intensity of the counting cell cannot meet the observation requirements, you can press the upper light source switch at the edge of the magnifying glass (the upper light source is a double LED lamp bead, powered by four 11.6mm button batteries, which have been equipped at the factory).
- 7) Use a marker to point out all the colonies on the bottom of the petri dish one by one. Currently, the colony is marked with color, and the buzzer sounds, indicating that the count is valid. The numbers in the display automatically accumulate.
- 8) Check carefully with a magnifying glass to confirm that there are no missing points and that the counting is completed. (If an error occurs during counting, you can manually increase or decrease the count.)
- 9) The number in the display is the number of colonies in the petri dish.
- 10) After recording the number, take out the petri dish and press the “**Reset**” key; the display will recover to the initial condition.



Labmate Scientific Inc

Email: [info@labmate.com](mailto:info@labmate.com) | Website: [www.labmate.com](http://www.labmate.com)