

 **SUNTEX**

# **Model 560**

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# **Colony**

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# **Counter**

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OPERATION  
MANUAL

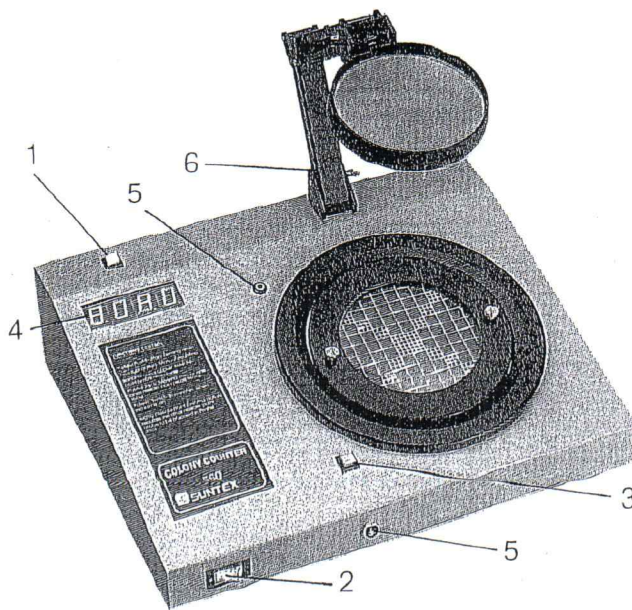
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## I. Panel Description:

### • Front panel description

1. Yellow color reset button: Zero reset button.
2. ON/OFF button: Power switch button.
3. Red color counting button: Button for manual counting.
4. LED display: 4-digit display for counting value.
5. Plug-base of counting probe: Plug-base for needle-point probe or marking pen probe.
6. Adjustable focusing arm with lens: 360° rotatable focusing arm and standard lens.



### • Rear panel description

1. Power plug-base: Plug-base for the electric power connection.
2. Power switch: Switch for 110V and 220V electric power selection.
3. Fuse base: For fuse installation.



## II. Installation:

1. Unpack the counter and put it on the desired place.
2. Insert the adjustable focusing arm with lens into the plug-base on the upper surface of the counter.
3. Select a suitable Petri dish holder and place it on the glass surface of the counter.
4. Install counting probe
  - a) Needle-point probe: Insert the banana connector of the probe into the socket and plug another probe into the ear-phone socket.
  - b) Marking pen probe:  
Insert the probe into ear-phone socket.
5. Check power switch on rear panel and select the correct voltage (110V or 220V).
6. Insert the power plug into the electric power supply.



### III. Operation:

1. Turn on the electric power.
2. Place the Petri dish on the glass surface of the counter.
3. Adjust the focusing arm with the lens to the desired place.
4. Press the yellow color reset button to have zero counting display.
5. Start counting:
  - a) Manual counting: Watch the bacteria visually and press the red color counting button once when a bacterium is counted.
  - b) Needle-point probe:
    - i) Open the Petri dish.
    - ii) Insert the loop probe into Petri dish and touch the liquid in the dish.
    - iii) Use the probe inserted into ear-phone socket to touch the bacteria and the counting is automatically done and displayed.
  - c) Marking pen probe: Use the probe touching the glass cover of the Petri dish once when a bacterium is counted and the count is displayed automatically.

#### IV. Maintenance:

1. Keep the counting probe clean to maintain good conductivity.
2. Keep the glass of the counter clean in order to have good visibility.
3. Replacement of the fluorescent lamp
  - a) Turn off the electric power supply
  - b) Screw off the button of the counter.
  - c) Take off the power plug base and flexible fixer.
  - d) Remove the broken fluorescent lamp and replace a new lamp.
  - e) Install the power plug base and flexible fixer.
  - f) Install the button of the counter and screw it tight.
  - g) Turn on the power and check if the lamp is in good condition.
4. Fuse replacement
  - a) Turn off the electric power supply.
  - b) Open the cover of fuse compartment at back of the counter.
  - c) Take the broken fuse out and replace a new 1A fuse.
  - d) Close the cover of fuse compartment.

## V. Specifications:

<b>Model No.</b>	560
Readout	4 digit bright red, 0.6" LED display
Petri Dish Holder	accepts 10cm dish (removable), 15cm (fixed)
Illumination	fluorescent lamp
Zero Reset Button	yes
Modes of Counting	<ul style="list-style-type: none"> <li>- manual pushbutton counting</li> <li>- needle-point probing</li> <li>- marking pen probing</li> </ul>
Dimension	36cm x 29cm x 10cm
Power	110V or 220V, 60Hz
Net Weight	4.5Kgs

## VI. Accessories:

### • Standard Accessories:

- 1.5x auxiliary lens ..... 1pc
- Adjustable focusing arm ..... 1pc
- Needle-point probe ..... 1pc
- Marking Pen Probe ..... 1pc
- 10cm dish holder ..... 1pc

### • Optional Accessory:

- 12cm dish holder ..... 1pc