

Model : DCC-560
Edition : January 2006

DIGITAL COLONY COUNTER



Before operating this unit,
please read and understand
this manual completely
and keep it for future
reference.

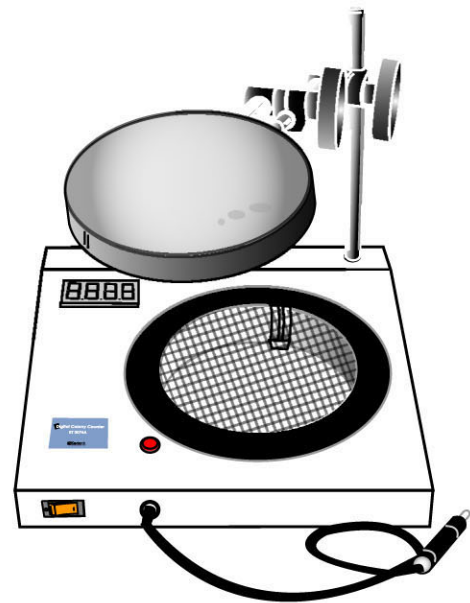


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• Safety warnings





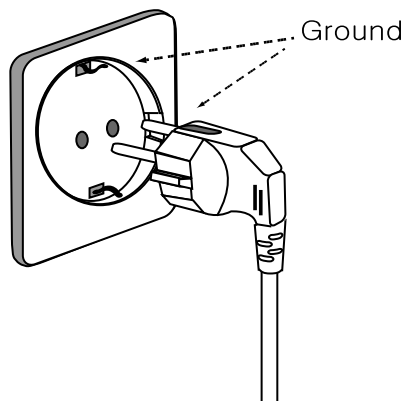
Caution

Before operating, read and understand safety warnings thoroughly and use this equipment properly. Keep these warnings in mind for your safety.

Safety Warnings: Danger!, Warning!, Caution!

-  **Danger** : Failure to observe this instruction can result in a personal injury or death.
-  **Warning** : Failure to observe this instruction may cause a fatal injury
-  **Caution** : Violation of this instruction and improper use may cause a serious injury and property damage.

| | |
|--|---|
|  Electric shock |  Caution |
| | <ul style="list-style-type: none">• A risk of electric shock exists. Make sure to install a ground wire. Electric shock may occur without a ground wire installation. |



1

Features

This colony counter provides efficient, accurate and convenient colony counting of various kinds of bacterial colonies. It is very useful lab instrument together with a microscope for physiological researches and hospital clinical diagnosis.

This product has following features for user's safety and convenience.

- 1) By using of button and a marking pen, 2 counter modes are possible.
- 2) The main power of this unit is 220 V.
- 3) Easy to read 4 digits LED digital display
- 4) An audio signal confirms every counting.
- 5) The marking pen probe is equipped for user's convenience

2

Setup Location



Caution!

Improper set up can cause a malfunction or an accident.

- 1) Install the equipment on a firm area avoiding heat, humidity, dust, and vibration.
- 2) Place it in a well-ventilated area with enough space.
- 3) Install it horizontally on a firm and stable surface.

3

Cautions

Warning!

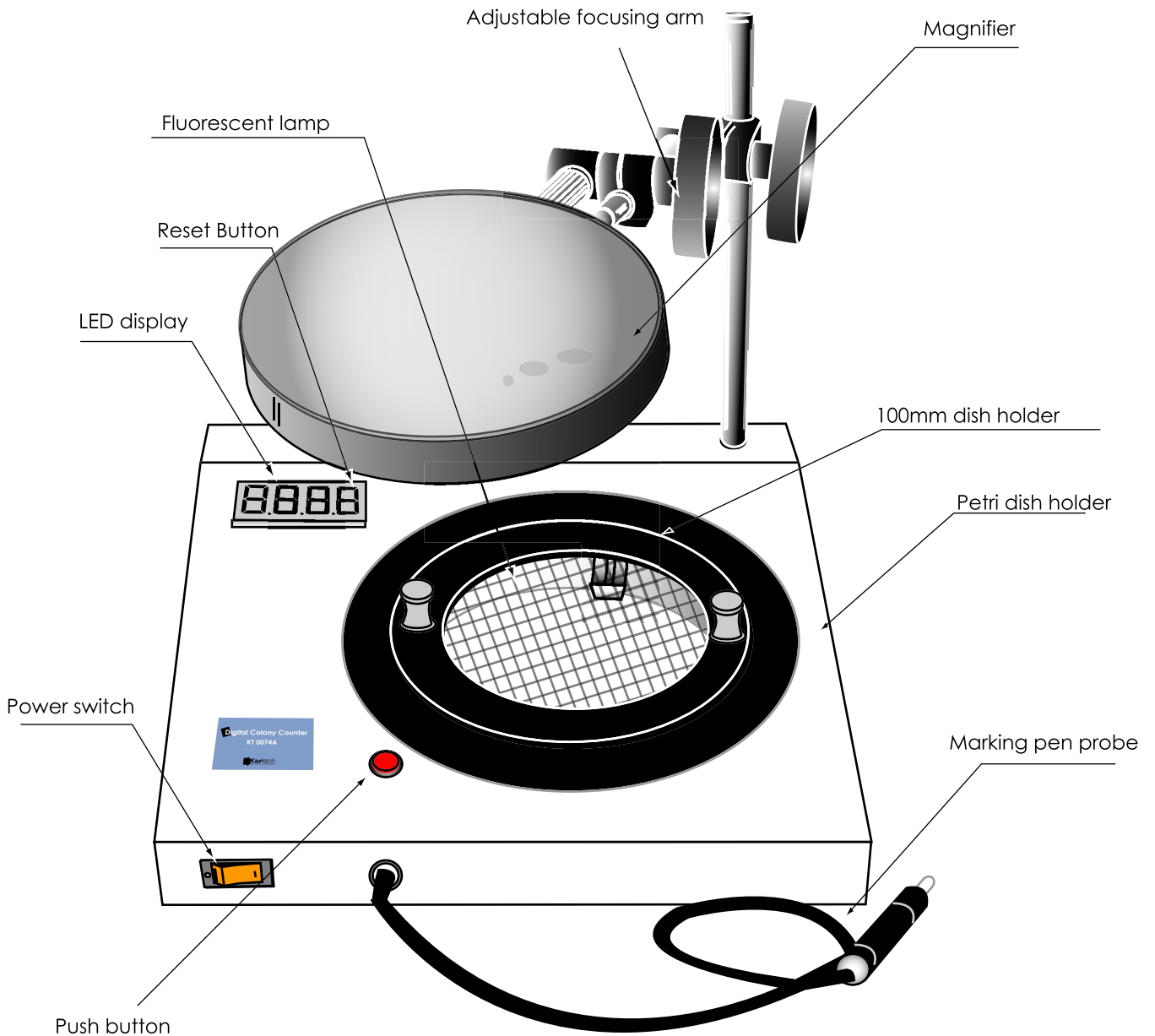
- Do not touch the power cord with wet hands. Electric shock may occur .
- Do not plug too many equipment into the same electric outlet. Overload may cause a fire.
- Make sure to connect a ground wire. Electric shock may occur without a ground wire.

Caution!

- Before plugging into the electric outlet, make sure that the power voltage is 220VAC, 50/60Hz.
- Avoid using other electric equipment with high voltage current near this equipment.
- Do not pour water on this equipment directly. A short circuit may occur.
- Do not use acid solution, benzene, and sharp objects, to clean the equipment. It may cause changes of color or damage. Rubber and plastic parts are likely to change easily. Do not use any volatile material.
If you use any detergent, clean it with water thoroughly
- Unplug from an outlet by holding the plug.
- Do not unplug it by pulling on the power cord.
- If this unit is not going to be used for a long period of time, remove the plug from an outlet.
- Damaged power cord can cause a short circuit or a fire.

4

Description of the parts and functions



DIGITAL COLONY COUNTER

4

Description of the parts and functions - Setup procedure

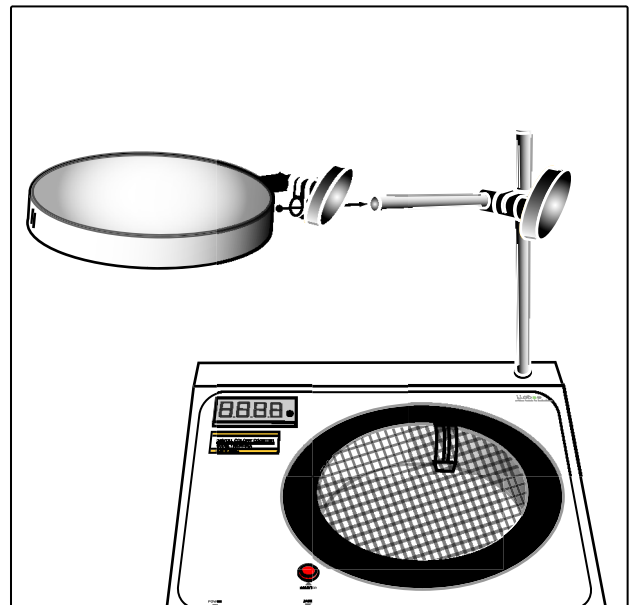


1

Insert the washer between the arm and the main body, and screw the arm into the main body until it's tight.
(Install the arm to the body first, after that, fix the magnifier later for your easier setup.)

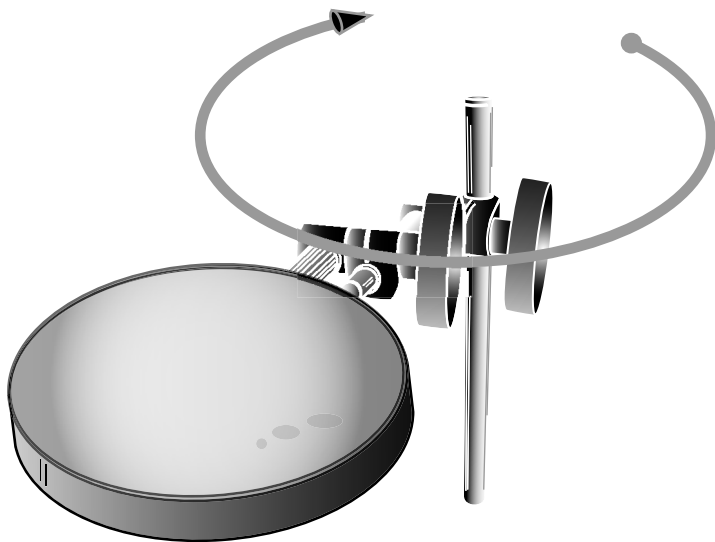
2

Fix the magnifier to the arm with care and tighten with the knob



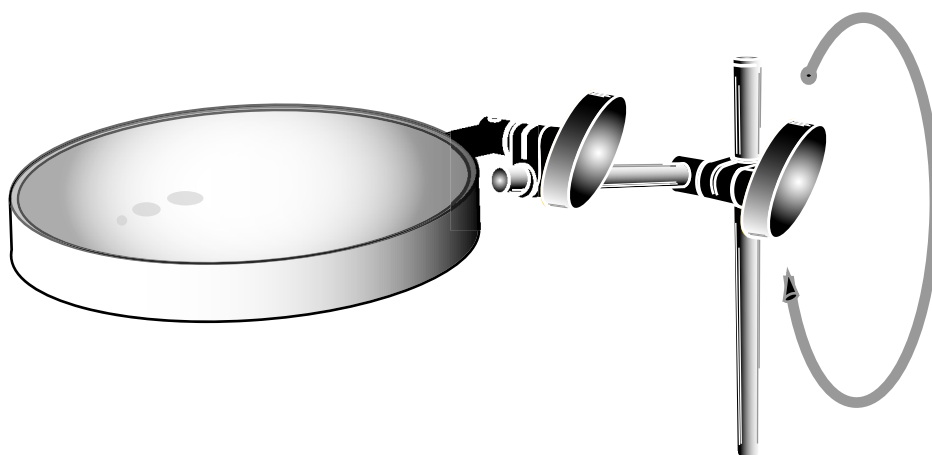
4

Description of the parts and functions - Adjusting



Caution!

Adjust the magnifier very gently to the proper position for maximum views.
Avoid abrupt adjustment. It may damage the parts.



5

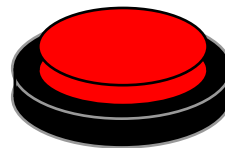
Using the counter

Two different mode of counting are possible by using of the marking pen and the counter button.



It counts up by pressing the marking pen.
Displays up to 4 digits (9999).

It counts up by pressing the counter button.
Displays up to 4 digits (9999).



▲
COUNTER

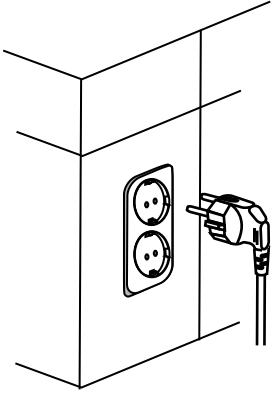
Reset Button



Reset the display by pressing the reset button.

6

Maintenance and Storage

**⚠ Warning!**

Make sure to unplug the unit from an outlet before cleaning the unit to avoid an electric shock.

⚠ Caution!

Pull the plug when disconnecting from an outlet. Do not pull the power cord. Do not use acid solution, benzene, and sharp objects to clean the equipment. It may cause changes of color or damage of the equipment.

1) To clean the surface of the unit.

- Use a sponge or a soft cloth with a neutral detergent
- Wipe the unit with a dry cloth.
- Do not use organic solvent.

2) To clean the electric parts.

- Always use a dry cloth.

3) If this system is not going to be used for a long period of time.

- Remove the plug from an outlet.
- Clean the unit with a soft towel.
- Wrap and store it.

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Troubleshooting



⚠ Warning!

- Switch off the unit before any maintenance and make sure to disconnect the power.
- If you are not authorized personnel, do not try to open, repair, or modify the unit.
- It can cause a fire or malfunction inflicting an injury upon people.

| Symptoms | Corrective Actions |
|----------------------------|--|
| The unit does not operate. | <ul style="list-style-type: none"> - Make sure the power cord is plugged. - Make sure the switch is on. - Check a power outage. |
| The counter does not work | <ul style="list-style-type: none"> - Check the contact of the marking pen probe. |
| Unable to mark. | <ul style="list-style-type: none"> - Check the ink of the marking pen. |

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Warranty

- 1) We provide free repair service for this product against defects in material or workmanship for a period of one year, when it is used under appropriate conditions. Before requesting service, check the followings;
 - Malfunctioned part and conditions (a detailed explanation is required)
 - Model Number
 - The date of purchase

*Customer will pay for the delivery charges of the product for repair service.

- 2) In case of followings, the repair service will be charged.
 - Damage due to improper operation, modification, or unauthorized attempt to repair
 - Damage due to inappropriate handling or transportation.
 - Damage due to acts of God such as fire, flood, and wrong voltage supply.
 - Damage due to not following operating instructions.

Contact authorized service center or your dealer for additional information.

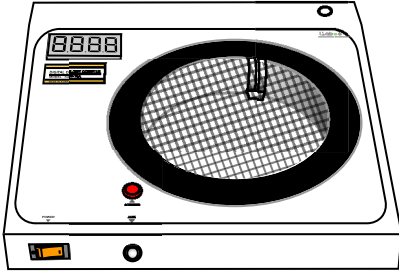
9

Specifications

| | |
|-------------------|--|
| Model | HYC-560 |
| Readout | 4 Digital LED Display |
| Petri dish holder | Accepts 100mm dish (removable) 150mm (fixed) |
| Zero reset button | Yes |
| Illumination | fluorescent Lamp |
| Dimensions | 310*290*100(H) mm |
| Mode of Counting | Manual push button counting Needle-point probing Marking pen probing |
| Power | 220V, 60Hz |

| Standard accessories | | | |
|----------------------|------|-------------------|------|
| Magnifier | 1 ea | Marking pen probe | 1 ea |
| Power cord | 1 ea | 100mm Dish holder | 1 ea |

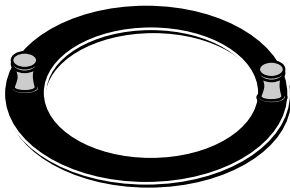
Accessories



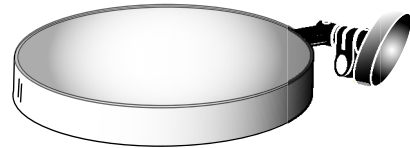
Body



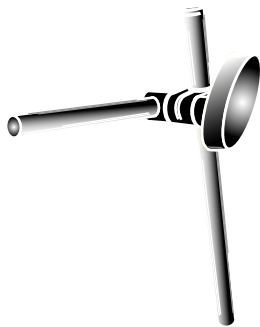
Needle point probe



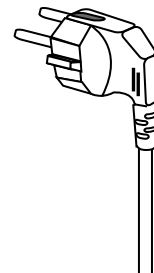
100mm Dish holder



Magnifier



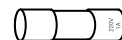
Adjustable focusing arm



Power cord



Washer



1A Fuse

* The drawings may not be the same as the actual parts supplied.



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