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› CGOLDENWALL Lab Digital Colony Counter YLN-30A Instruction Manual

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CGOLDENWALL Lab Digital Colony Counter YLN-30A Instruction Manual

Model: YLN-30A | Brand: CGOLDENWALL

1. INTRODUCTION

The CGOLDENWALL YLN-30A Lab Digital Colony Counter is an automatic digital display apparatus designed for inspecting and counting bacteria colonies. It features a digital counter, a specialized probe, and a counting plate, all integrated to provide clear and bright results. This instrument utilizes CMOS molelectron technology and an LED digital display to ensure quick and accurate colony counting, thereby enhancing work efficiency and reducing manual labor for laboratory personnel.

Key features include:

- Automatic counting with a digital display.
- Optical magnification of 5X and 10X for enhanced observation.
- Transmission and reflection illumination for clear colony contrast.
- Counting scope from 0 to 999.
- Voice count off automatically.

2. PRODUCT COMPONENTS

Familiarize yourself with the main components of the YLN-30A Colony Counter.



Figure 1: Front view of the YLN-30A Colony Counter. This image displays the complete unit, including the base, flexible arm, magnifying lamp, digital display, and control panel.

Name	Model	Technical parameter	Overall dimension (L×W×H)(mm)	NW (kg)	GW (kg)
Colony counter	YLN-30	Automatic , optics magnified 8X,transmission reflection illuminate, Counting scope 0-999, power; 10W,the size of culture case; 90mm,50. Count off with Voice automatically	310*210*80	2	2.5
Voice Count Off Counter	YLN-30A	Automatic , optics magnified 5X,10X transmission reflection illuminate, Counting scope 0-999, power; 20W,the size of culture case; 90mm,50.Count off with Voice automatically	310*210*260	2.5	3.8

Figure 2: Close-up of the control panel. The panel includes buttons for 'Voice' (), 'Reset' (), 'Count' (), 'Light Source' (), and 'Power' ().



Figure 3: Magnifying lens and counting plate. This shows the illuminated area where petri dishes are placed for colony counting, with the magnifying lens positioned above.

3. SETUP

1. **Unpacking:** Carefully remove the colony counter from its packaging. Retain all packaging materials for future transport or storage.
2. **Placement:** Place the unit on a stable, level, and vibration-free surface in a clean laboratory environment. Ensure adequate space around the unit for operation and ventilation.
3. **Power Connection:** Connect the power cord to the power input on the back of the unit, then plug it into a suitable electrical outlet (refer to specifications for voltage requirements).
4. **Probe Connection:** Ensure the counting probe is securely connected to its designated port.

4. OPERATING INSTRUCTIONS

1. **Power On:** Flip the main power switch () to the 'ON' position. The digital display should illuminate.
2. **Activate Light Source:** Press the 'Light Source' () button to turn on the illumination for the counting plate. Adjust the flexible arm to position the magnifying lamp over the counting area.
3. **Place Petri Dish:** Place the petri dish containing the bacterial colonies onto the counting plate.
4. **Adjust Magnification:** The unit provides 5X and 10X optical magnification. Position the magnifying lens for optimal viewing of the colonies.
5. **Reset Counter:** Before starting a new count, press the 'Reset' () button to clear the display to '000'.
6. **Counting Colonies:** Use the counting probe to gently touch each colony on the petri dish. Each touch will increment the digital display by one. A voice prompt will confirm each count if the 'Voice' () function is enabled.
7. **Record Count:** Once all colonies have been counted, record the final number displayed. The counting scope is 0-999.
8. **Power Off:** After use, turn off the light source and then the main power switch.

5. MAINTENANCE

- **Cleaning:** Regularly clean the counting plate and magnifying lens with a soft, lint-free cloth and a mild cleaning solution suitable for optical surfaces. Avoid abrasive cleaners.
- **Probe Care:** Handle the counting probe with care. Ensure it is clean and free from debris. Replace if damaged or worn.
- **General Cleaning:** Wipe down the exterior of the unit with a damp cloth. Do not allow liquids to enter the internal components.
- **Storage:** When not in use for extended periods, store the unit in a dry, dust-free environment, preferably in its original packaging.

6. TROUBLESHOOTING

- **Unit does not power on:**
 - Check if the power cord is securely connected to both the unit and the electrical outlet.
 - Verify that the power outlet is functional.
 - Ensure the main power switch is in the 'ON' position.
- **Digital display is blank or incorrect:**
 - Ensure the unit is powered on.
 - Press the 'Reset' button to clear any previous count.
 - If the issue persists, power cycle the unit (turn off, wait 10 seconds, then turn on).
- **Counting probe not registering counts:**

- Ensure the probe is firmly connected to its port.
- Check the probe tip for damage or debris.
- Ensure you are making firm, distinct touches on the colonies.

• **Illumination not working:**

- Press the 'Light Source' button to activate illumination.
- Check if the bulb needs replacement (refer to service manual or contact support).

For issues not listed above, please contact CGOLDENWALL customer support.

7. SPECIFICATIONS

The following table outlines the technical specifications for the CGOLDENWALL YLN-30A Lab Digital Colony Counter.



Figure 4: Technical Specifications Table. This table provides detailed parameters for the YLN-30A model.

Parameter	Specification (YLN-30A)
Model	YLN-30A
Counting Scope	0-999
Power	20W
Culture Case Size	90mm
Magnification	5X, 10X (transmission reflection illuminate)
Overall Dimension (L×W×H)	310 × 210 × 260 mm
Net Weight (NW)	2.5 kg
Gross Weight (GW)	3.8 kg
Manufacturer	CGOLDENWALL
UPC	521966572559

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your authorized CGOLDENWALL dealer or visit the official CGOLDENWALL website. Please have your model number (YLN-30A) and purchase details ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question