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NyPots CD04

NyPots Automatic Solar Powered Chicken Coop Door

MODEL: CD04 - USER MANUAL

1. Introduction

Thank you for choosing the NyPots Automatic Solar Powered Chicken Coop Door, Model CD04. This device is designed to provide a convenient and secure solution for managing your poultry, offering automated opening and closing functions based on time or light conditions. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your product.

2. Safety Instructions

- Always ensure the power is off before performing any maintenance or installation.
- Keep children and pets away from the moving door mechanism.
- Do not attempt to force the door open or closed manually when it is operating automatically.
- Ensure the installation area is stable and secure to prevent the unit from falling.
- This product is designed for poultry weighing under 10 lbs. Do not use for larger animals.
- The door opening size is 8.2 inches wide and 9.6 inches high. It is not suitable for turkeys.

3. Package Contents

Please check that all items are present in the package:

- 1 x Automatic Chicken Coop Door Unit
- 1 x Solar Panel
- 1 x USB-C Charging Cable
- 1 x Screwdriver
- 8 x Mounting Screws

4. Product Features

- **Dual Power Source:** Solar powered with a built-in rechargeable lithium-ion battery (2000mAh), also chargeable via USB-C cable.
- **Multiple Operating Modes:** Timer-based, Light Sensor-based, or a combination of both.

- **Manual Control:** Override automatic settings with manual open/close buttons or remote control.
- **LCD Display:** Clear screen for easy parameter setting and status monitoring.
- **Anti-Pinch Function:** Door reverses for 10 seconds if resistance is detected during closing, then attempts to close again, ensuring poultry safety.
- **Durable Construction:** Made from aluminum alloy and ABS plastic for weather resistance and reliability.
- **Weather Resistant:** Designed to withstand various weather conditions from -20°F to 140°F.

5. Setup and Installation

Before installation, ensure the built-in battery is fully charged using the provided USB-C cable. This is recommended for initial setup and testing.



Figure 5.1: Product dimensions and included mounting hardware. Door opening size is 8.2 inches wide by 9.6 inches high.



Figure 5.2: Step-by-step installation process.

1. **Prepare the Opening:** On the exterior wall of your chicken coop, mark and cut an opening of approximately **8.2 inches wide by 12 inches high**. This allows for the door's operational space.
2. **Mount the Door Unit:** Position the automatic door unit over the cut opening. Ensure it is level. Use the provided screws and screwdriver to securely fasten the unit to the coop wall.
3. **Install Solar Panel:** Choose a location for the solar panel that receives maximum direct sunlight throughout the day. Mount the solar panel securely using appropriate hardware (not included for panel mounting). Connect the solar panel cable to the designated port on the main door unit. The cable length is approximately 9.5 feet.
4. **Initial Power On:** Press the 'On/Off' button on the control panel to power on the device. The LCD screen should illuminate.

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Video 5.1: Demonstration of automatic chicken door installation and initial setup. This video provides a visual guide to mounting the door and connecting the solar panel.

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Video 5.2: A detailed look at a fully installed automatic chicken coop door, showcasing its integration with a coop.

6. Operating Instructions

The NyPots Automatic Chicken Coop Door offers flexible operating modes via its LCD control panel.



Figure 6.1: LCD Display and Control Panel Overview.

6.1. Control Panel Buttons:

- **M (Mode Selection):** Press to cycle through different operating modes (Timer-Timer, Timer-Light, Light-Light, Light-Timer).
- **Gear Icon (Settings):** Press to enter setting mode for time or light sensitivity.
- **Up Arrow:** Increase value in settings, or manually open the door.
- **Down Arrow:** Decrease value in settings, or manually close the door.

6.2. Setting Operating Modes:

Press the **M** button to select one of the four main modes:



Figure 6.2: Timer and Light Sensor Mode Combinations.

- **T-T (Timer-Timer):** Door opens and closes at specific set times.
- **T-L (Timer-Light):** Door opens at a set time and closes based on light sensor.
- **L-L (Light-Light):** Door opens and closes based on light sensor (dawn/dusk).
- **L-T (Light-Timer):** Door opens based on light sensor and closes at a set time.

After selecting a mode, press the **Gear Icon** to adjust the specific parameters (time or light sensitivity) using the Up/Down arrows. Confirm settings by pressing the Gear Icon again or waiting a few seconds.

6.3. Manual Mode:

To manually open or close the door, simply press the **Up Arrow** (open) or **Down Arrow** (close) button. This will override any automatic settings until the next scheduled automatic action.

Alternatively, if you set the open and close times to be identical in T-T mode (e.g., open 07:00, close 07:00), the door will only operate via manual control or remote control.

6.4. Anti-Pinch Protection:

The door is equipped with an anti-pinch safety feature. If the door encounters an obstruction (like a chicken) while closing, it will automatically reverse for 10 seconds, then attempt to close again. A beep will sound if the door does not close completely.



Figure 6.3: Anti-Pinch Design in action.

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Video 6.1: A review discussing the solar power functionality and automatic features of the coop door.

7. Maintenance

- **Cleaning:** Periodically wipe down the door unit and solar panel with a soft, damp cloth to remove dust and debris. Ensure the light sensor is clear for accurate operation.
- **Battery Care:** While solar power keeps the battery charged, if the unit is stored or experiences prolonged periods without sunlight, charge the battery fully using the USB-C cable every few months to maintain battery health.
- **Door Track:** Keep the door tracks clear of any obstructions like dirt, feathers, or ice to ensure smooth operation.

8. Troubleshooting

Problem	Possible Cause	Solution
Door not opening/closing automatically	Incorrect time/light settings; Low battery; Obstruction in track.	Check and adjust settings; Charge battery; Clear door track.
Solar panel not charging	Panel dirty or shaded; Loose connection.	Clean panel, ensure direct sunlight; Check cable connection.
LCD display not working	Low battery; Unit not powered on.	Charge battery; Press 'On/Off' button.
Door reverses frequently	Obstruction in path; Sensor sensitivity too high.	Clear path; Check for debris; Adjust light sensor sensitivity if applicable.

9. Specifications

Model Number	CD04
Product Dimensions (L x W x H)	9.6" x 1.6" x 13"
Door Opening Size (W x H)	8.2" x 9.6"
Weight	1.6 pounds
Material	Aluminium Alloy, ABS Plastic
Battery Type	1 Lithium Ion (included)
Operating Temperature	-20°F to 140°F
Recommended Poultry Weight	Under 10 lbs

10. Warranty and Support

This NyPots Automatic Solar Powered Chicken Coop Door (Model CD04) comes with a**2-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact NyPots customer service through the retailer's platform or visit our official website for contact information.

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