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Zuomeng ZM-089

Zuomeng Automatic LED Daylight Extender

Model: ZM-089 User Manual

1. Introduction

The Zuomeng Automatic LED Daylight Extender is designed to provide optimal lighting conditions for poultry, enhancing egg production and supporting chick health. This device offers multiple light color options and intelligent timer modes to simulate natural daylight and create a beneficial environment for your flock, especially during periods of reduced natural light.



Image 1.1: Illustration showing the impact of insufficient light on egg production and chick growth (Before) versus the improved conditions and results with the Zuomeng Automatic LED Daylight Extender (After).

2. Safety Information

- Read all instructions before installation and operation.

- Ensure the power supply matches the device's requirements.
- Do not expose the controller or power adapter to direct water or extreme moisture. The light units are IP65 rated for outdoor use, but connections should be secure.
- Mount the controller in a secure, dry location away from animals.
- Keep cables organized and out of reach of animals to prevent damage.
- Unplug the device from the power outlet before cleaning or maintenance.

3. Package Contents

Please check the package for the following items:

- 1x Main Controller Unit
- 2x LED Light Units (LED1 and LED2)
- 1x UL Certified Power Adapter
- Mounting Hardware (screws, anchors - may vary)

4. Product Overview

The Zuomeng Automatic LED Daylight Extender consists of a central control unit and two independent LED light units. The controller features a display screen, control buttons, and ports for connecting the lights and power.



Image 4.1: Overview of the Zuomeng Automatic LED Daylight Extender, showing the main controller unit, two distinct LED light units, and the power adapter.

Controller Features:

- **LCD Display:** Shows current time, mode, and settings.
- **M Button:** Mode selection.
- **T Button:** Timer settings.
- **Up/Down Buttons:** Navigation and value adjustment.
- **LED1/LED2 Ports:** Connect the respective light units.

5. Installation and Setup

1. **Mount the Controller:** Select a dry, easily accessible location inside or near the chicken coop. Use the provided mounting hardware to securely attach the controller to a wall or sturdy surface. Ensure it is protected from direct weather exposure and animal interference.

2. **Connect LED Light Units:** Connect the cable from LED1 to the 'LED1' port on the controller. Similarly, connect the cable from LED2 to the 'LED2' port. Ensure connections are firm.
3. **Position LED Lights:** Strategically place the two LED light units within the chicken coop to ensure even light distribution. The IP65 waterproof rating allows for flexible placement, including areas that might experience some moisture.
4. **Connect Power:** Plug the power adapter into the controller's power input port. Then, plug the power adapter into a standard electrical outlet. The device will power on.



Image 5.1: The Zuomeng Automatic LED Daylight Extender controller and light units installed within a chicken coop, demonstrating typical placement.

6. Operation

6.1 Initial Setup

- Upon first power-on, set the current date and time using the Up/Down buttons and confirm with the M or T button as prompted by the display.

6.2 Operating Modes

The device features three operating modes:



Image 6.1: Visual representation of the three intelligent timer modes: Manual Mode, Timer Mode, and Latitude and Longitude Mode.

- **Manual Mode:** Allows direct control over turning the lights on/off and selecting light colors. Press the 'M' button to cycle through light settings.
- **Timer Mode:** Set specific ON/OFF times and durations for the lights. Press the 'T' button to enter timer settings. Use Up/Down buttons to adjust times and 'M' or 'T' to confirm.
- **Latitude and Longitude Mode:** The device automatically adjusts lighting based on local sunrise and sunset times. Input your geographical latitude and longitude coordinates into the system. Refer to the on-screen prompts for inputting these values.



Manual Mode



Timer Mode



Latitude and Longitude Mode

6.3 Light Color Selection

The device offers six lighting options. Use the controller buttons (typically 'M' or Up/Down in manual mode) to cycle through and select the desired light color for LED1 and LED2.

6.4 Additional Features

- **Air Fresh Module:** This module activates simultaneously with the lights to help improve air quality within the coop.
- **Surge Protection:** Built-in protection against power surges.
- **Power Outage Memory:** Settings are retained in case of a power interruption.

7. Light Color Guide

Different light colors serve specific purposes for poultry health and productivity:



Image 7.1: Visual guide to the different light colors available and their specific benefits for poultry.

- **Natural White (6000K) / Warm White (3000K):** Simulates natural sunlight, extends daylight hours, and enhances egg production.
- **Red Light:** Can increase appetite and improve social behavior among the flock.
- **Green Light:** Supports early growth and development in chicks.
- **Blue Light:** May contribute to strengthening the immunity of your flock.
- **Yellow Light:** (Often part of warm white spectrum or general mood light, consult specific product display for exact function if distinct from white).

8. Maintenance

- **Cleaning:** Periodically wipe the controller and light units with a soft, dry cloth to remove dust and debris. Do not use abrasive cleaners or immerse in water.
- **Inspection:** Regularly check all cables and connections for any signs of wear, damage, or loose connections. Ensure the mounting of the controller and lights remains secure.

- **Environmental Check:** Ensure the controller remains in a dry environment and the light units are free from excessive buildup of dirt or animal waste that could obstruct light output.

9. Troubleshooting

Problem	Possible Cause	Solution
Lights do not turn on	No power; Loose connection; Faulty unit	Check power outlet; Ensure all cables are securely connected; Contact support if problem persists.
Timer function not working	Incorrect settings; Not in Timer Mode	Verify timer settings; Ensure the device is set to Timer Mode.
Incorrect light color displayed	Wrong color selected; Mode conflict	Adjust color settings in Manual Mode; Check if a programmed timer is overriding manual selection.
Display is blank or unresponsive	Power issue; Device malfunction	Unplug and replug the power adapter; If issue persists, contact customer support.

10. Specifications



Image 10.1: Detailed dimensions of the Zuomeng Automatic LED Daylight Extender controller, light units, and power adapter.

Feature	Detail
Model Number	ZM-089
Product Dimensions	5 x 3 x 5 inches (Controller and Lights combined)
Item Weight	2.81 pounds
Manufacturer	Zuomeng
Waterproof Rating	IP65 (Controller casing and light units)
Power Adapter	UL Certified
Light Colors	Natural White, Warm White, Red, Blue, Yellow, Green

11. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or visit the official Zuomeng

website. If you encounter any issues or require technical assistance, please contact Zuomeng customer support through their official channels.

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