LFF PFS-177

LFF Automatic Chicken Coop Door User Manual

Model: PFS-177 / LCD177

1. INTRODUCTION

Thank you for choosing the LFF Automatic Chicken Coop Door. This manual provides detailed instructions for the installation, operation, and maintenance of your new automatic chicken door. Designed for convenience and the safety of your poultry, this door features multiple operational modes, solar charging capabilities, and robust construction. Please read this manual thoroughly before use to ensure proper function and longevity of the product.

2. PRODUCT OVERVIEW AND COMPONENTS

The LFF Automatic Chicken Coop Door is an advanced system designed to automate the opening and closing of your chicken coop. It integrates solar power, a light sensor, a timer, and remote control for flexible operation.

Figure 2.1: Overview of the Automatic Chicken Coop Door system, including the main door unit, solar panel, remote control, and mounting screws.

Included Components:

- 1 x Automatic Chicken Coop Door Unit
- 1 x Solar Panel
- 1 x USB-C Charge Cable
- 1 x Remote Control
- 8 x Mounting Screws

Figure 2.2: Close-up of the LCD display and control interface, showing current time, sunlight value, alarm light, charging indicator, light sensor, buzzer hole, ON/OFF button, and Type-C charging port.

3. SETUP AND INSTALLATION

Installation is straightforward and typically takes about 10 minutes. Ensure you have the necessary tools (e.g., drill, screwdriver) before beginning.

Installation Steps:

1. **Confirm Door Size and Mark Location:** The door requires an opening of approximately 10.82" L x 1.5" W x 14.25" H. Measure and mark the desired location on your chicken coop.
2. **Prepare Opening:** Carefully saw or cut the opening for the door installation according to your measurements.
3. **Secure the Door:** Position the automatic chicken coop door unit within the prepared opening. Use the provided 8 screws to securely fasten the door to the coop structure.
4. **Install Solar Panel:** Connect the solar panel to the main door unit. Mount the solar panel in a location that receives optimal direct sunlight throughout the day to ensure efficient charging.
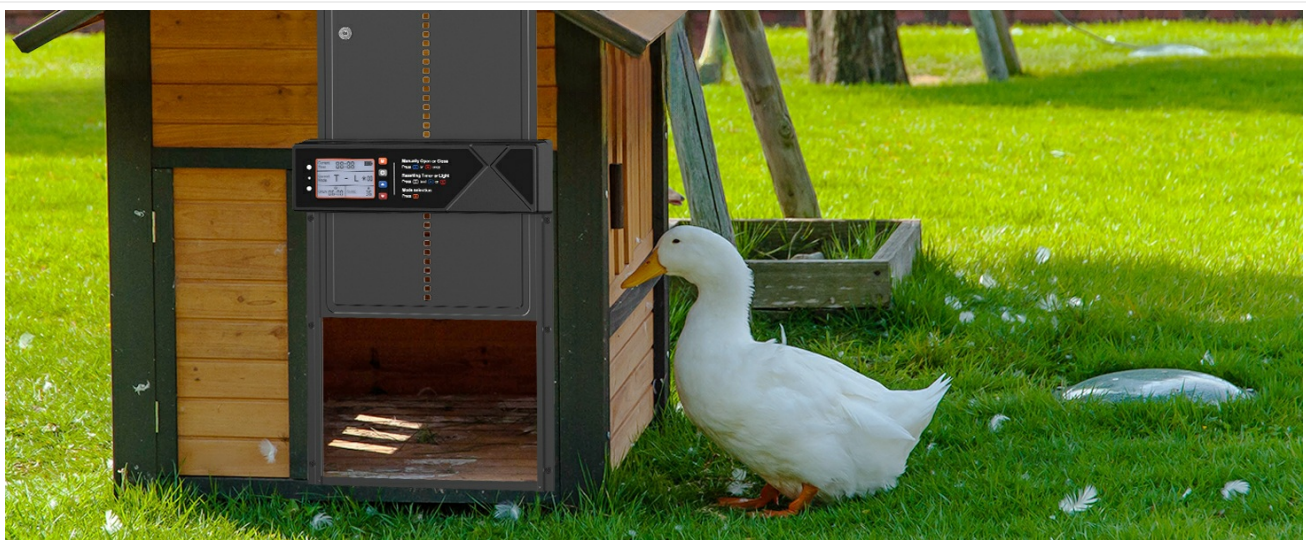

Figure 3.1: Visual guide for the installation process, from confirming dimensions to securing the door and installing the solar panel.

4. OPERATING MODES

The LFF Automatic Chicken Coop Door offers four distinct operational modes to suit various needs and preferences.

Figure 4.1: Illustration of the four available operating modes for the chicken coop door.

- **Automatic Timer Mode:** Set specific times for the door to open and close (e.g., 06:00 AM open, 18:00 PM close). This mode provides consistent scheduling.
- **Auto-Light Sensor Mode:** The door opens at sunrise and closes at sunset, adapting to natural light conditions. You can adjust the light sensitivity (Light 31-99 for open, Light 0-30 for close).
- **Manual Button Control:** Use the physical buttons on the door unit to manually open or close the door as needed.
- **Remote Control:** Operate the door wirelessly from a distance of up to 15 meters using the provided remote control.

	Mode1 (L-L)	Mode2 (L-T)	Mode3 (T-L)	Mode4 (T-T)
Open	Light Sensor	Light Sensor	Timer	Timer
Close	Light Sensor	Timer	Light Sensor	Timer

Figure 4.2: Detailed table illustrating various mode combinations (Light Sensor for Open/Close, Timer for Open/Close) for flexible operation.

5. ANTI-PINCH PROTECTION

The safety of your poultry is paramount. This automatic chicken door is equipped with an intelligent anti-pinch feature. If the door detects an obstruction (such as a chicken) during its closing cycle, the built-in smart IC sensor will immediately activate a rebound function. The door will lift upwards by 3 cm to release the obstruction. After a 10-second pause, the door will attempt to close again. If the obstruction persists after three attempts, the door will stop closing, a red light will flash, and an alarm sound will activate to alert you.
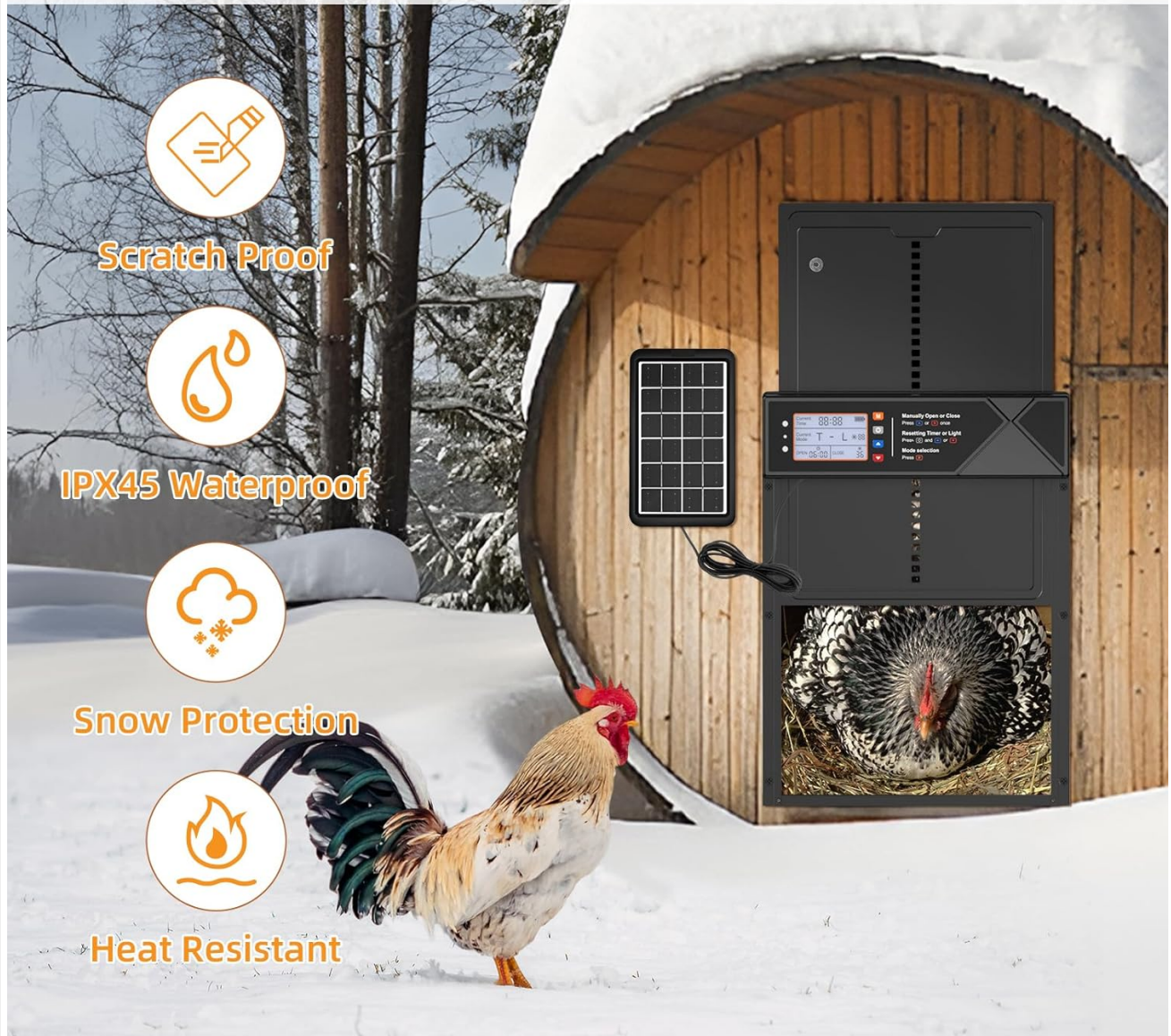
Figure 5.1: Visual representation of the anti-pinch safety feature in action, demonstrating the door's rebound mechanism.
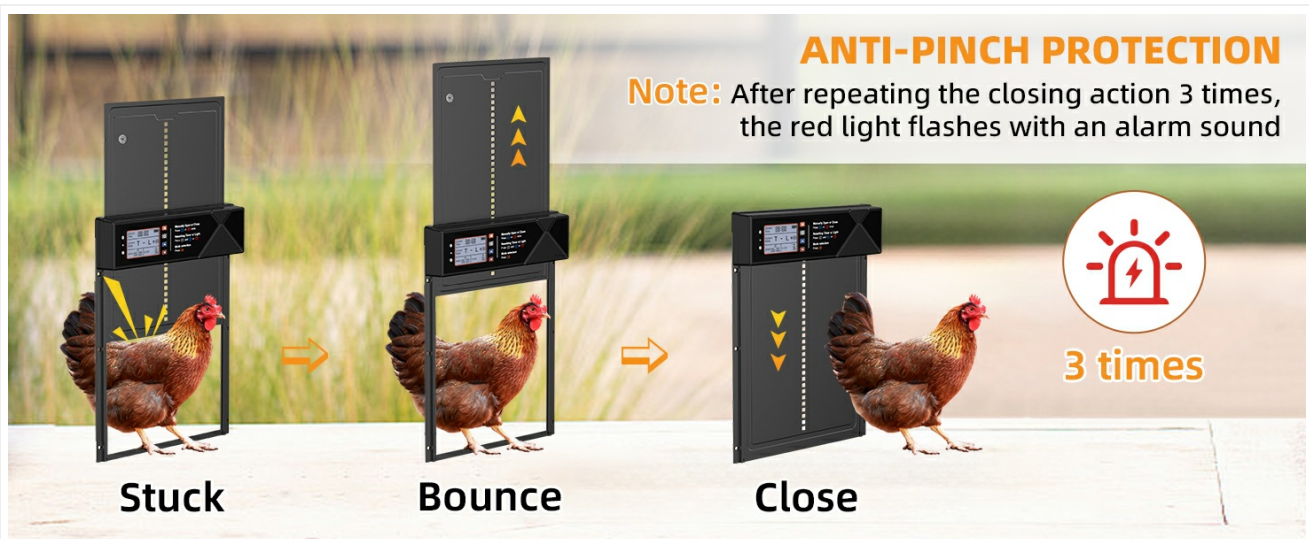

Figure 5.2: Illustration of the anti-pinch system, highlighting the alarm and flashing light after three failed closing attempts.

6. Charging and Power

The chicken coop door is powered by a 2,000 mAh rechargeable battery, offering flexible charging options.

- **Solar Charging:** The primary charging method is via the included solar panel. Ensure the panel is positioned to receive maximum direct sunlight for optimal charging efficiency.
- **USB-C Charging:** For situations with insufficient sunlight or for initial charging, the door can be charged using the provided USB-C cable.
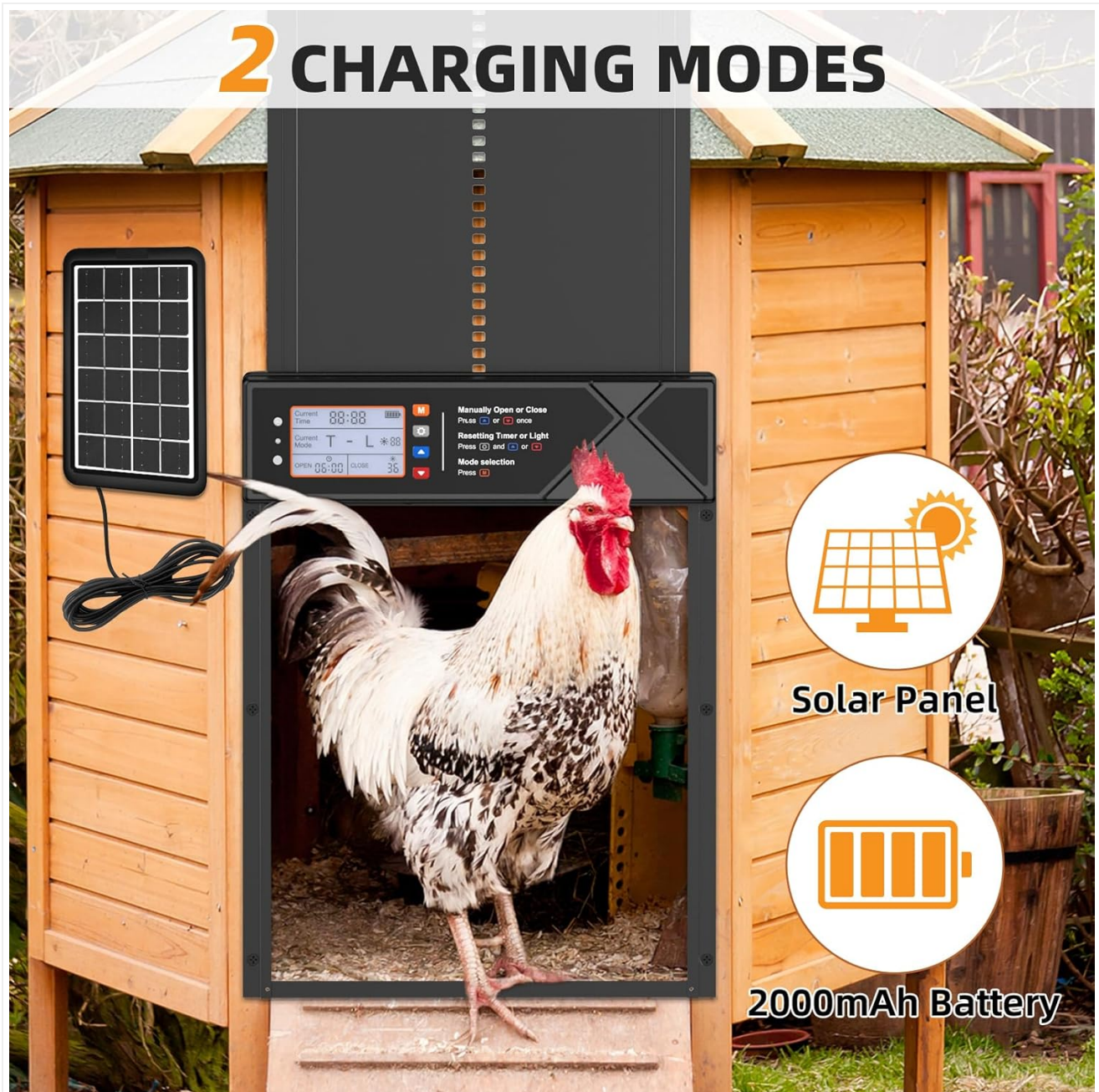

Figure 6.1: Visual representation of the dual charging capabilities: solar power and USB-C battery charging.
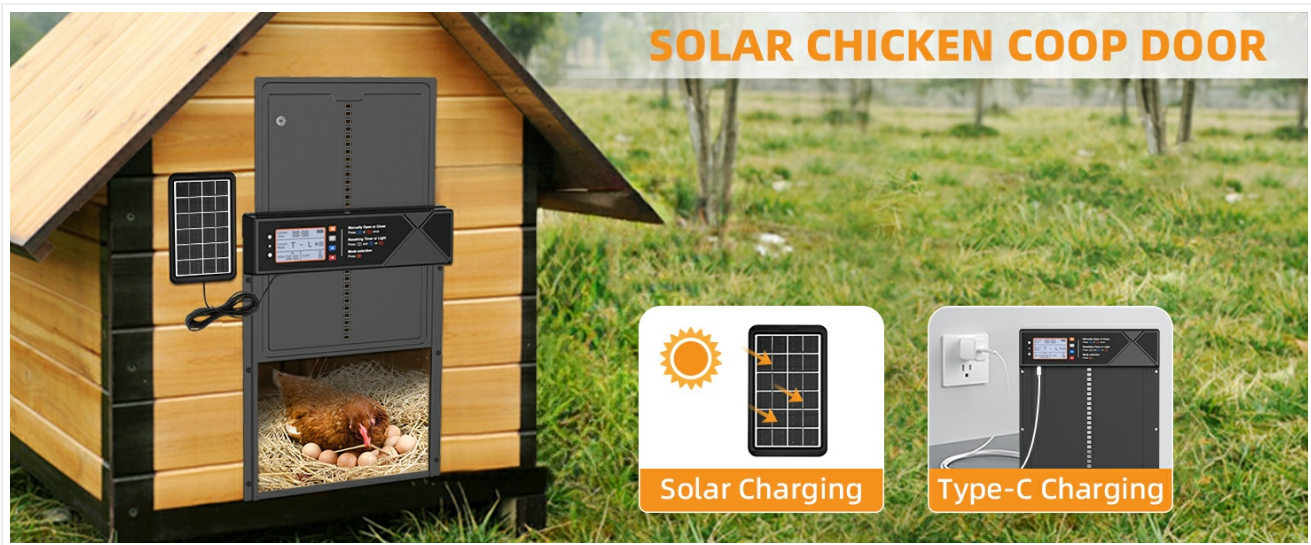
Figure 6.2: Illustration comparing the solar charging method with the Type-C cable charging method.

7. MATERIAL AND WEATHER RESISTANCE

Constructed from durable aluminum alloy, the LFF Automatic Chicken Coop Door is built to withstand various environmental conditions.

- **Robust Construction:** Made of aluminum alloy and ABS plastic, ensuring longevity and resistance to wear, including scratches from poultry claws.
- **IPX45 Waterproof Rating:** Provides protection against water splashes from any direction, making it suitable for outdoor use.
- **Weather Resilience:** Designed to operate effectively in temperatures ranging from 5°F to 140°F (-15°C to 60°C), and resistant to snow, rain, and dust.

DEFEND AGAINST POTENTIAL DANGERS

When an animal opens the coop door,
the red light flashes and the alarm sounds

FOX   Raccoon   Snake   Wolf

Figure 7.1: The door's durability and weather resistance features, including scratch-proof, IPX45 waterproof, snow protection, and heat resistance.

PREMIUM ALUMINIUM ALLOY MATERIAL
Prevent the invasion of predators

IPX45 Waterproof   Rainproof   Snowproof   UV Protection

Figure 7.2: Emphasizing the premium aluminum alloy material and its protective features against weather elements and predators.

8. Predator Defense

The robust construction and secure closing mechanism of the LFF Automatic Chicken Coop Door provide an effective barrier against common predators.

In addition to its physical strength, if an animal attempts to force the door open, the system is designed to flash a red light and sound an alarm, deterring potential threats like foxes, raccoons, snakes, and wolves.

Figure 8.1: The door's ability to defend against various potential dangers, including common predators.

# 9. Versatility and Compatibility

This automatic coop door is designed to be compatible with a wide range of poultry and small animals, offering a versatile solution for various enclosures.

- **Broad Compatibility:** Suitable for chickens, ducks, geese, rabbits, and other similar-sized poultry or small animals.
- **Generous Size:** The door's dimensions (10.82" L x 14.25" H) are larger than many standard market offerings, allowing for easy passage of various animal sizes.

VARIOUS POULTRY AUTOMATIC COOP DOORS

Chickens
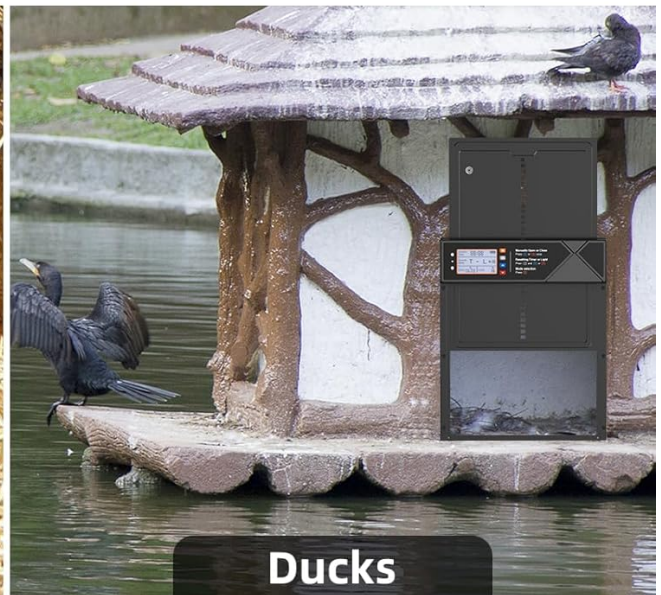
Ducks

Rabbits

Geese

Figure 9.1: Examples of the automatic coop door being used with various types of poultry and small animals.

Current Local Time

Current Sunlight Value

06:59 **Large LCD Display**

2000mAh Battery

IPX45 Waterproof

Alarm Flashing Light

Charging Indicator

Light Sensor

Current Time 88:88

Current Mode T - L ✳88

OPEN 06:00 CLOSE 36

M — **Manually Open or Close** Press ▲ or ▼ once

⚙ — **Resetting Timer or Light** Press ⚙ and ▲ or ▼

▲ — **Mode selection** Press M

▼

Buzzer Hole **ON/OFF Button** **Type-C Charging Port/ Solar Charging Interface**
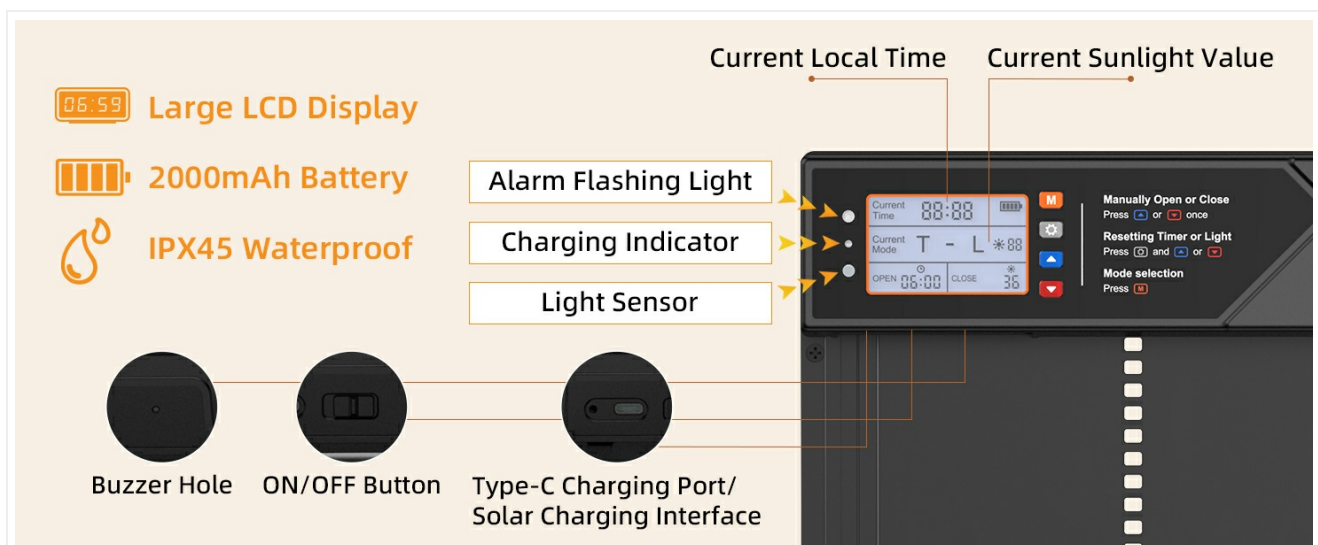
Figure 9.2: The door installed on a rabbit hutch, demonstrating its suitability for rabbits.

Figure 9.3: The door installed on a duck coop, illustrating its use for ducks.

10. Maintenance

Regular maintenance ensures the optimal performance and longevity of your automatic chicken coop door.

- **Cleaning:** Periodically wipe down the door unit and solar panel with a damp cloth to remove dirt, dust, and debris. Avoid abrasive cleaners.
- **Track Inspection:** Ensure the door tracks are clear of any obstructions (e.g., straw, feathers, mud) that could impede smooth operation.
- **Battery Check:** Monitor the battery indicator on the LCD display. Recharge via solar panel or USB-C cable as needed, especially during prolonged periods of low sunlight.
- **Screw Tightness:** Occasionally check that all mounting screws are tight to ensure the door remains securely fastened to the coop.

11. Troubleshooting

If you encounter issues with your automatic chicken coop door, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Door not opening/closing automatically.	Incorrect timer settings; insufficient light for sensor; low battery.	Verify timer settings. Check light sensor sensitivity. Recharge battery. Ensure solar panel is clean and exposed to sunlight.
Door stops and reverses during closing.	Obstruction in the door path (anti-pinch activated).	Clear any obstructions from the door's path. Check for debris in the tracks.
Remote control not working.	Remote battery low; out of range; interference.	Replace remote battery. Ensure you are within 15m range. Reduce potential signal interference.
Door movement is sluggish or noisy.	Dirt/debris in tracks; mechanical issue.	Clean door tracks thoroughly. If problem persists, contact customer support.
Battery not charging.	Solar panel dirty/obstructed; faulty USB-C cable/port.	Clean solar panel. Ensure solar panel is in direct sunlight. Try charging with USB-C cable. If still not charging, contact support.

12. SPECIFICATIONS

Feature	Detail
Model Name	LCD177
Item Model Number	PFS-177
Brand	LFF
Product Dimensions	10.82" L x 1.5" W x 14.25" H
Item Weight	3.08 pounds
Material	Aluminum Alloy, ABS Plastic
Power Source	Solar Powered / USB-C Rechargeable Battery (2000mAh)
Operational Modes	Timer, Light Sensor, Remote Control, Manual
Waterproof Rating	IPX45
Operating Temperature	5°F to 140°F (-15°C to 60°C)
Remote Control Range	Up to 15 meters
Breed Recommendation	Chicken, duck, goose, and other poultry
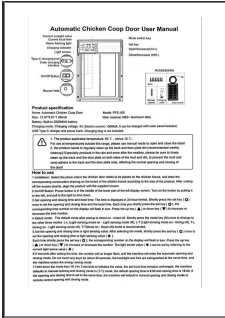
13. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official LFF store on Amazon:

LFF Official Store

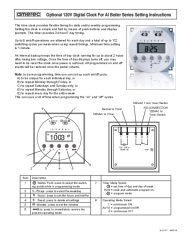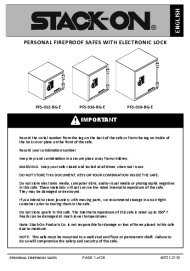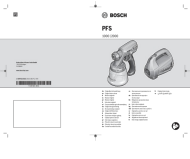Please have your model number (PFS-177 / LCD177) and purchase date ready when contacting support.

Related Documents - PFS-177

Automatic Chicken Coop Door User Manual: PFS-165 Operation Guide
Comprehensive user manual for the PFS-165 Automatic Chicken Coop Door, detailing installation, operation modes, features like light sensing and timing, anti-pinch technology, charging options, and maintenance tips.

	[Chicken Coop Door User Manual - PFS-169](#) User manual for the second-generation automatic chicken coop door (Model: PFS-169). Provides instructions on installation, operation modes, settings, troubleshooting, and maintenance for the chicken coop door.
	[Primetal Security Products AEGIS Personal Fireproof Safe Owner's Manual](#) Owner's manual for Primetal Security Products AEGIS Personal Fireproof Safes (PFS-10, PFS-20, PFS-30). Includes instructions on opening, battery installation, programming passcode, unlocking, locking, and securing the safe.
	[Amerec Optional 120V Digital Clock for AI Boiler Series: Setting Instructions](#) Detailed instructions for setting up and programming the Amerec Optional 120V Digital Clock (Model 4211-177) for AI Boiler Series. Covers time setting, daily/weekly programming, and operational modes.
	[Stack-On Personal Fireproof Safes with Electronic Lock - Owner's Manual](#) Comprehensive owner's manual for Stack-On Personal Fireproof Safes with Electronic Lock (models PFS-012-BG-E, PFS-016-BG-E, PFS-019-BG-E), covering setup, operation, security, mounting, FAQs, and warranty.
	[Bosch PFS 1000	2000 Bedienungsanleitung und Sicherheitshinweise](#) Diese Bedienungsanleitung bietet detaillierte Informationen zur sicheren Verwendung und Wartung des Bosch PFS 1000 und PFS 2000 Feinsprühsystems, einschließlich Sicherheitshinweisen und Anwendungstipps.

Documents - LFF – PFS-177

no relevant documents