Birdfy AMZ-4160-5-SO

Birdfy Smart Bird House with Cameras (2025 New Version) Instruction Manual

Model: AMZ-4160-5-SO

1. INTRODUCTION

This manual provides instructions for the Birdfy Smart Bird House with Cameras, Model AMZ-4160-5-SO. This device is designed to observe nesting birds with its dual 1080P cameras, AI detection capabilities, and solar-powered wireless operation. It allows for remote monitoring and interaction via a connected application.

Image 1.1: The Birdfy Smart Bird House with Cameras, showing its design and a bird in flight, along with a smartphone screen displaying live camera feeds.

2. PACKAGE CONTENTS

Verify that all components are present in the package:

- Bird house
- 1080P Birdfy camera
- Instruction manuals (English-Spanish-French/English-German-Italian)
- Multi-language quick guides (English-Spanish-French-German-Italian)
- 1 wall-mounting positioning mark
- 1 back hanger
- 1 screwdriver
- 1 strap
- 1 cable clip
- 4 long silver screws
- 4 short silver screws
- 4 expansion screws
- 2 small hose clamps

- 4 replaceable entrance holes (25mm/28mm/38mm/50mm)
- 1 Type-C power cable
- 1 5W solar panel
- Extended operation box with 3m cable (features blue/red indicators, Type-C charging port, power button, and reset button)

Image 2.1: Visual representation of the items included in the Birdfy Smart Bird House package.

3. Setup and Installation

3.1. Mounting Options

The Birdfy Smart Bird House offers versatile installation options:

- **Pole-Mounted:** Secure the birdhouse to a suitable pole in your garden.
- **Tree-Mounted:** Use the provided strap and hose clamps to attach the birdhouse to a tree trunk.
- **Wall-Mounted:** Utilize the wall-mounting positioning mark and screws to fix the birdhouse to a wall or fence.
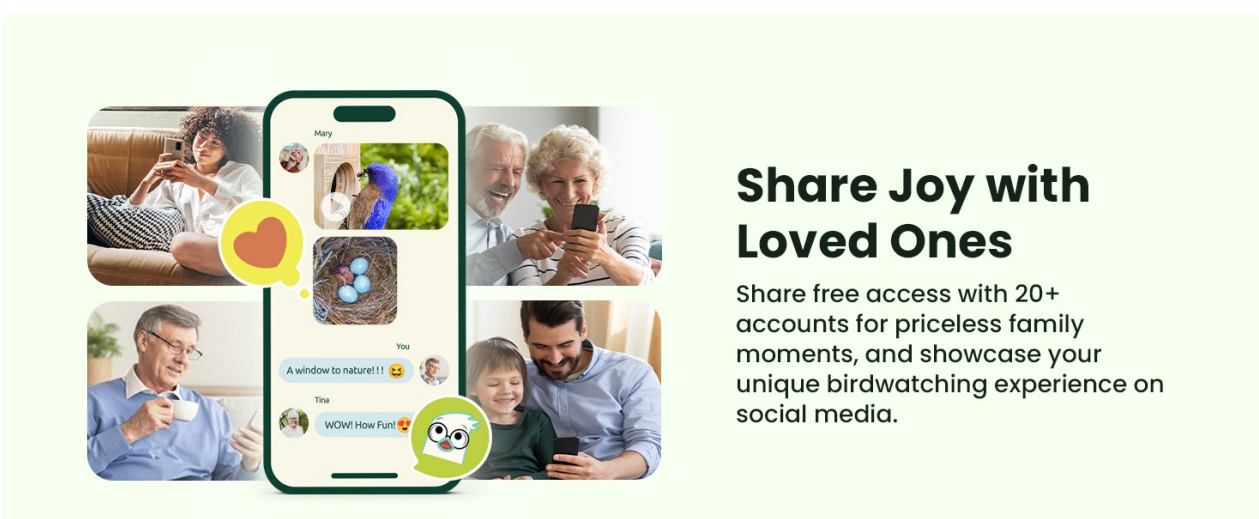

Image 3.1: Depiction of the three primary installation methods: pole-mounted, tree-mounted, and wall-mounted.

3.2. Solar Panel Connection

Connect the included 5W solar panel to the birdhouse for continuous power. The solar panel helps maintain the charge of the internal battery, ensuring uninterrupted operation.

Image 3.2: The Birdfy Smart Bird House connected to its 5W solar panel for power.

3.3. Wi-Fi Connection

The device connects wirelessly via 2.4GHz Wi-Fi. Ensure your Wi-Fi network is 2.4GHz compatible for proper functionality. 5GHz Wi-Fi is not supported.

3.4. Predator Guards

Select and install one of the four provided replaceable entrance holes (25mm, 28mm, 38mm, 50mm) with metal predator guards to protect nesting birds from predators. Choose the appropriate size based on the target bird species.

Bird-Friendly Design

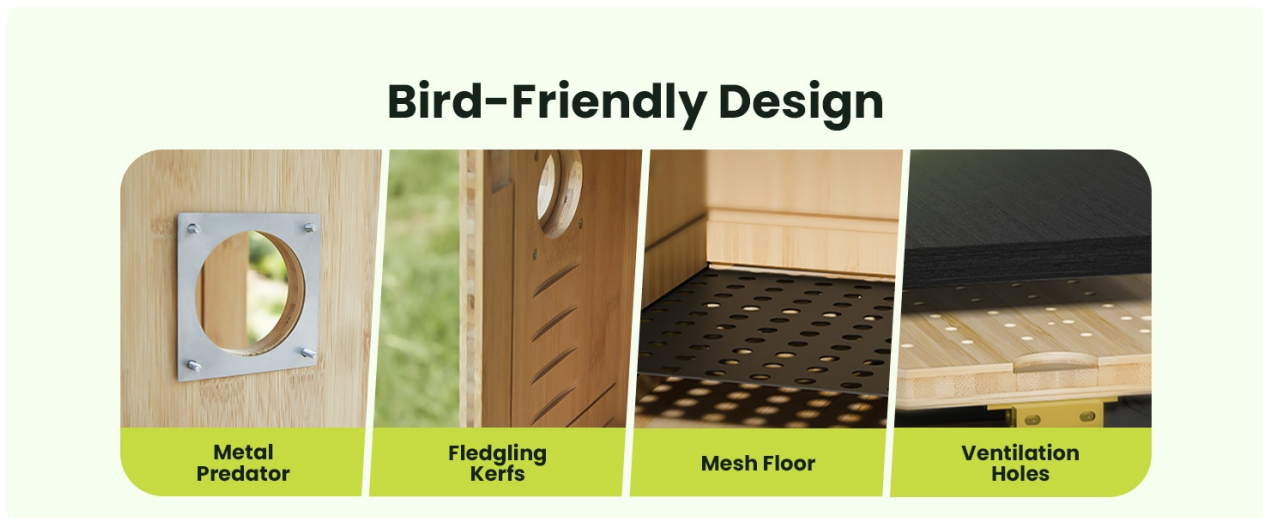| Metal Predator | Fledgling Kerfs | Mesh Floor | Ventilation Holes |

Image 3.4: Various entrance hole sizes with metal predator guards, indicating suitable bird species for each size.

4. OPERATING INSTRUCTIONS

4.1. Dual Camera Functionality

The Birdfy Smart Bird House features two 1080P cameras: one positioned inside the nesting area and another observing the exterior entrance. This provides a comprehensive view of bird activity.

Image 4.1: Diagram illustrating the interior and exterior camera views of the birdhouse.

4.2. AI Detection and Alerts

The integrated AI system detects key nesting moments, such as egg-laying and brooding. It sends real-time alerts to your connected device and can automatically generate highlight videos of these events.

Reminds You of the Nesting Stages

Attention Bird Lovers!
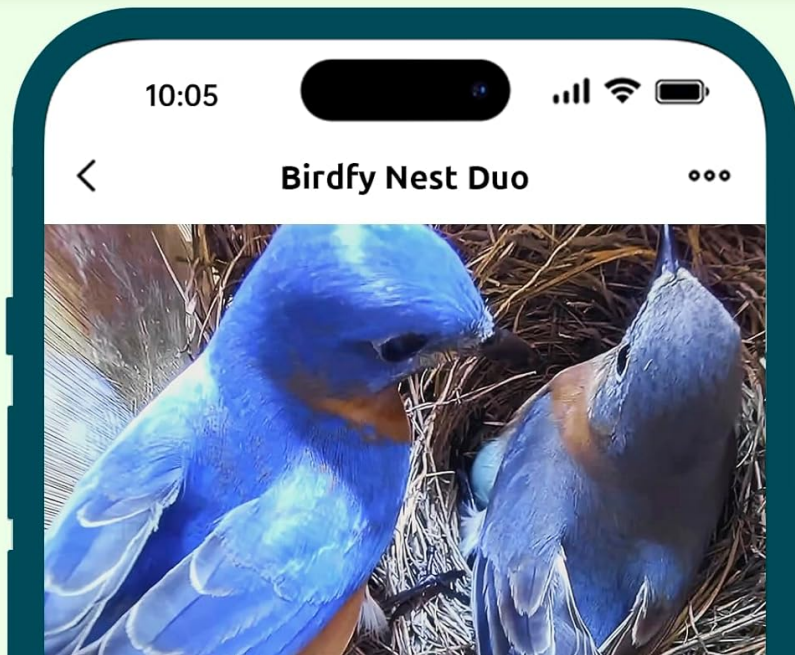Your bird has started laying eggs in the birdhouse!

10:05

Birdfy Nest Duo

Image 4.2: A smartphone screen displaying an alert notification for egg-laying activity in the birdhouse.

4.3. Remote Control

An external remote control with a 10-foot range allows you to manage power and settings without disturbing nesting birds. This feature enables remote rebooting or charging of the camera.

Remote Control, Keep Their Space Sacred

ONLY ON BIRDFY!

10ft

Birdfy Reboot Power

✓ Reboot or charge camera remotely

✓ Keep nesting periods undisturbed

Image 4.3: Diagram showing the remote control unit and its connection to the birdhouse for remote power management.

4.4. App Usage and Cloud Storage

Access live feeds, recorded events, and share moments through the dedicated Birdfy application. The system includes unlimited cloud storage for active nesting stories, allowing you to revisit and share birding moments.

Birdfy Nest Duo

Connection Type:
2.4GHz Wi-Fi

Product Weight:
7.9lbs / 3.6kg

Product Dimensions:
10" * 7.8" * 15.7" (25.5cm * 19.8cm * 40cm)

Unlimited Free Cloud Storage

*Unlimited cloud storage while the current story is in effect.

Image 4.5: Visual representation of the cloud storage feature, showing various captured bird moments.

4.5. Night Vision

The cameras provide clear night vision, allowing for continuous monitoring of bird activity even in low-light conditions without disturbing the birds.

Image 4.6: Comparison of daytime 1080P FHD video and clear night vision footage from the birdhouse camera.

5. MAINTENANCE

The Birdfy Nest is designed for easy cleaning. It features a 180° full-open magnetic door, allowing convenient access to the interior for cleaning and maintenance.

5.1. Bird-Friendly Design Features

The birdhouse incorporates several features for bird comfort and safety:

- **Metal Predator Guards:** Protect the entrance from predators.
- **Fledgling Kerfs:** Grooves inside the house assist young birds in climbing to the entrance.
- **Mesh Floor:** Provides drainage and ventilation.
- **Ventilation Holes:** Ensure proper airflow within the nesting chamber.

Image 5.2: Detailed view of the bird-friendly design elements: metal predator guard, fledgling kerfs, mesh floor, and ventilation holes.

6. SPECIFICATIONS

Feature	Detail
Brand	Birdfy
Model Name	AMZ-4160-5-SO
Item Weight	13.92 pounds
Item Dimensions (LxWxH)	9.17 x 8.07 x 17.17 inches
Material	Bamboo
Color	Natural
Camera Resolution	1080P FHD
Wi-Fi Connection	2.4GHz (5GHz not compatible)
Solar Panel	5W
Specific Uses	Outdoor

7. TROUBLESHOOTING

- **No Video Feed:** Ensure the device is powered on and connected to a 2.4GHz Wi-Fi network. Check the battery level via the app.
- **Poor Video Quality:** Verify Wi-Fi signal strength at the installation location. Ensure camera lenses are clean.
- **Solar Panel Not Charging:** Confirm the solar panel is correctly connected and positioned to receive direct sunlight.
- **Remote Control Unresponsive:** Ensure the remote control is within the 10-foot operating range of the birdhouse.
- **AI Detection Issues:** Ensure the firmware is up to date through the Birdfy app.

8. WARRANTY AND SUPPORT
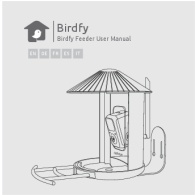
8.1. Warranty Information
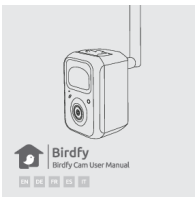
The Birdfy Smart Bird House with Cameras comes with a**2-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.
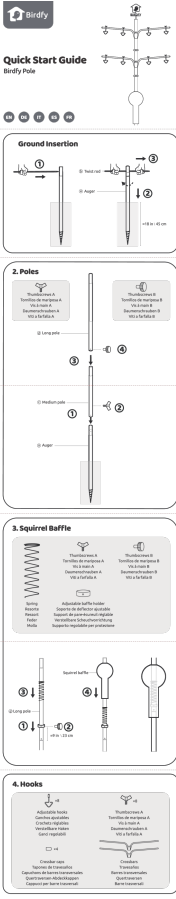
8.2. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Birdfy customer support. Refer to the contact information provided in the quick guide or visit the official Birdfy website for support resources.

Related Documents - AMZ-4160-5-SO

	[Birdfy Cam User Manual: Setup, Features, and Specifications](#) Comprehensive user manual for the Birdfy Cam, covering setup, microSD card insertion, charging, power functions, pre-installation notes, and AI bird recognition. Includes FCC and CE compliance information.
	[Birdfy Feeder User Manual - Setup, Features, and Support](#) Comprehensive user manual for the Birdfy Feeder, covering setup, charging, microSD card insertion, pre-installation notes, AI bird identification features, and support contact information.

[Birdfy Pole Quick Start Guide: Easy Setup for Bird Watching](#)

Get started quickly with the Birdfy Pole Quick Start Guide. Learn how to assemble and install your Birdfy Pole for optimal bird watching and camera placement.

[Birdfy Feeder Bamboo A User Manual - Setup, Installation & Guide](#)

Comprehensive user manual for the Birdfy Feeder Bamboo A. Learn how to set up, install, clean, and troubleshoot your smart bird feeder camera. Includes product details and support information.

[Birdfy Hum Feeder User Manual - Setup, Features, and FAQs](#)

Comprehensive user manual for the Birdfy Hum Feeder, covering setup, charging, features like AI bird identification, and frequently asked questions. Learn how to install and use your smart bird feeder.

[Birdfy Feeder 2 Pro User Manual](#)

Comprehensive user manual for the Birdfy Feeder 2 Pro, covering setup, charging, app integration, and maintenance. Includes instructions in English, Spanish, and French.