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› Aoeeeki EAS RF 8.2MHz Anti-Theft Security System Instruction Manual (Model: JBC-RF003-01)

Aoeeeki JBC-RF003-01

Aoeeeki EAS RF 8.2MHz Anti-Theft Security System

Model: JBC-RF003-01 - Instruction Manual

1. PRODUCT OVERVIEW

The Aoeeeki EAS RF 8.2MHz Anti-Theft Security System is designed to protect merchandise in retail environments by detecting unauthorized removal of tagged items. This system utilizes 8.2MHz radio frequency technology to trigger an alarm when a security tag passes through the detection zone.

The system consists of two sensor gates (one transmitting, one receiving) that create an electromagnetic field. When an active 8.2MHz RF tag enters this field, the receiving gate detects the signal and activates an audible and visual alarm.



Figure 1.1: The Aoeeki EAS RF 8.2MHz Anti-Theft Security System in operation, demonstrating an alarm being triggered by a security tag.

Key Features:

- **Operating Principle:** Utilizes electromagnetic induction with 8.2MHz radio frequency signals for reliable detection.
- **Adjustable Detection Range:** Configurable from 2.9 to 4.5 feet, depending on the type of anti-theft tag used.
- **Alarm Type:** Triggers both audible and visual alerts upon detection of an unremoved RF tag.
- **Anti-Interference Capability:** Engineered for high resistance to external signal disruptions, ensuring stable operation.
- **Durable Construction:** Made from premium aluminum alloy and acrylic for longevity.

2. PACKAGE CONTENTS

Verify that all components listed below are included in your package before proceeding with installation.



Complete Package Contents

Everything You Need to Get Started

EAS 8.2MHZ Retail Anti-Theft Equipment

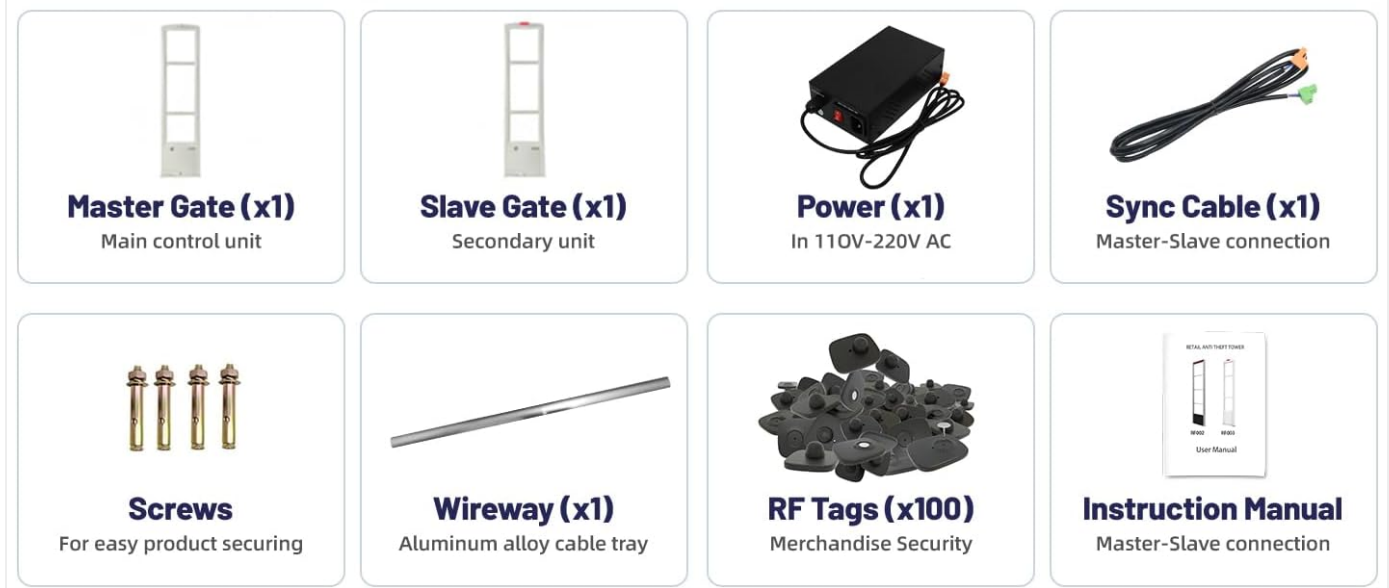


Figure 2.1: Complete package contents of the Aoeeke EAS RF 8.2MHz Anti-Theft Security System.

- 1 x Master Gate (Main control unit)
- 1 x Slave Gate (Secondary unit)
- 1 x Power Supply (Input: 110V-220V AC)
- 1 x Sync Cable (Master-Slave connection)
- Set of Screws (For securing the gates)
- 1 x Wireway (Aluminum alloy cable tray)
- 100 x RF Anti-theft Security Tags
- 1 x Instruction Manual

3. INSTALLATION GUIDE

Proper installation is crucial for optimal performance of the anti-theft system. It is recommended that installation be performed by a qualified professional.

3.1 Site Preparation and Placement

- Choose a suitable location at the entrance/exit of your retail space.
- Ensure the area is clear of obstructions and potential sources of electromagnetic interference.
- Maintain a recommended spacing of 90-120 cm (35-47 inches) between the two gates for effective detection.
- Avoid placing the anti-theft gates too close to walls or metal structures, as this can affect performance.

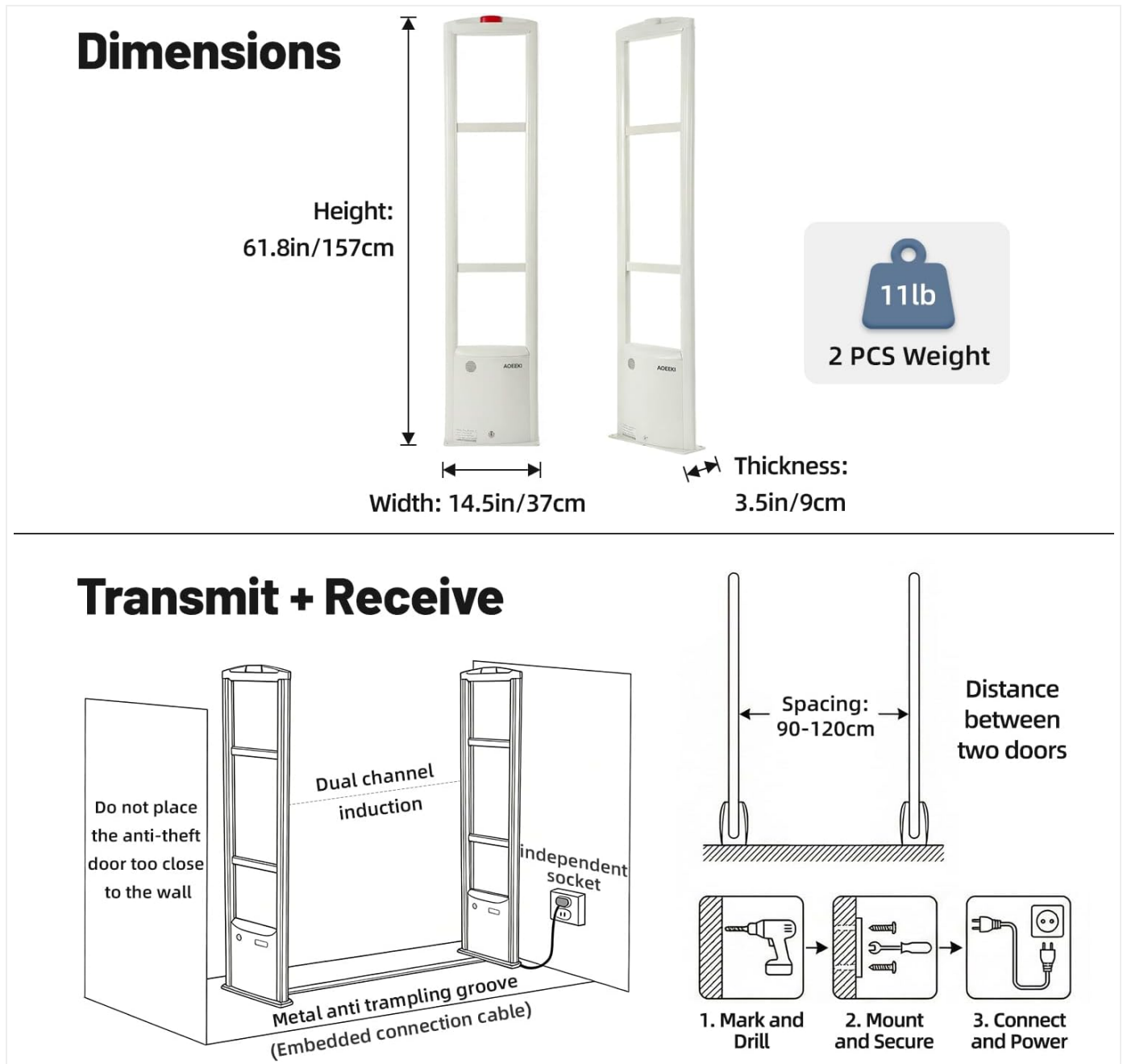


Figure 3.1: Gate dimensions and a visual guide for installation steps.

3.2 Wiring and Connection

The system requires a wired connection between the Master and Slave gates, and a power connection to the Master gate.

1. **Open the Master Gate:** Use the provided key to unlock and open the base panel of the Master Gate to access the motherboard.
2. **Connect Power Supply:** Plug the power supply unit into the designated port on the motherboard of the Master Gate.
3. **Connect Sync Cable:** Connect one end of the Sync Cable to the Master Gate's motherboard and the other end to the Slave Gate's motherboard. Ensure the cable is routed neatly, preferably using the provided wireway for protection and aesthetics.

4. **Secure Gates:** Use the fixing screws to securely mount both the Master and Slave gates to the floor.
5. **Close and Lock:** Close the base panel of the Master Gate and lock it with the key.
6. **Power On:** Plug the power supply into a 110V-220V AC power outlet and turn on the power switch on the power supply unit. The indicator light on the Master Gate should illuminate, indicating power is on.

Your browser does not support the video tag.

Video 3.2: Detailed installation process for the Aoeeeki EAS RF 8.2MHz Anti-Theft Security System, demonstrating component connection and power-up.

4. OPERATING PRINCIPLES AND TAG COMPATIBILITY

The Aoeeeki security system operates on the principle of Radio Frequency (RF) identification. Merchandise is equipped with specialized RF tags or hard tags that contain an 8.2MHz radio frequency signal. When an item with an active tag passes between the transmitting and receiving gates, the system detects the signal and triggers an alarm.

4.1 Detection Range

The system's detection range is adjustable and can span between 70 cm (27 inches) and 150 cm (59 inches). The actual effective detection distance is influenced by the specific type and size of the anti-theft tag used.

- **Soft Labels:** Standard detection up to 70 cm (27 inches), maximum 90 cm (35 inches).
- **Small Tags:** Standard detection up to 100 cm (39 inches), maximum 120 cm (47 inches).
- **Large Tags:** Standard detection up to 130 cm (51 inches), maximum 150 cm (59 inches).



**Quick
sensing**



**Immediate
alarm**



**High Cosr-
performance**



**Widely
applicable**

Suitable for **8.2 MHz RF**(Radio Frequency) tags/labels
58kHz AM(Acousto-magnetic) tags/labels **not compatible**



Receive Machine



**Soft Label: standard 70cm/max 90cm
standard 27 in/ max 35 in**



***KIT TAG**

**Small Tag: standard 100cm/max 120cm
standard 39 in/ max 47 in**



**Big Tag: standard 130cm/max 150cm
standard 51 in/ max 59 in**



Transmit Machine

Figure 4.1: Detection ranges based on tag type.

4.2 Compatible Tags

This system is compatible with 8.2MHz RF (Radio Frequency) tags and labels. It is **not compatible** with 58kHz AM (Acousto-Magnetic) tags/labels.

EAS Anti-theft System Tag Guide

Compatible With 8.2MHz Tags

 **ATTENTION: Not compatible with 58kHz Tags**

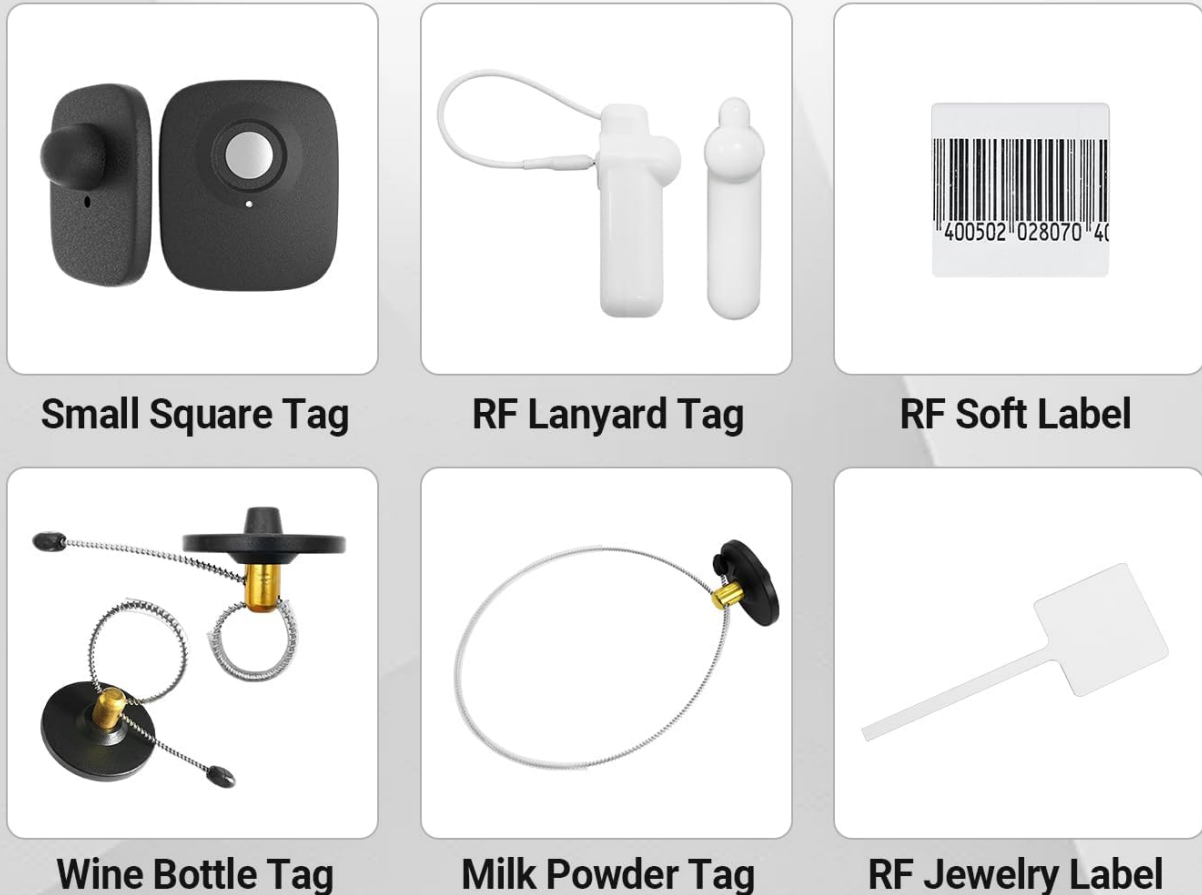


Figure 4.2: Examples of 8.2MHz compatible security tags.

5. SPECIFICATIONS

Technical specifications for the Aoeekei EAS RF 8.2MHz Anti-Theft Security System.

Parameter	Specification
Brand	Aoeekei
Model Number	JBC-RF003-01
Frequency	8.2MHz
Detection Width	70-150 cm (27-59 inches)
Power Supply	110V-220V AC

Parameter	Specification
Gate Dimensions (H x W x D)	157 x 37 x 9 cm (61.8 x 14.5 x 3.5 inches)
Weight (2 pcs)	11.3 kg (24.9 lbs)
Material	Premium Aluminum Alloy & Acrylic
Alert Type	Audible and Visual (RF Tag Detection)
Included Tags	100 pcs Anti-theft Security Tags

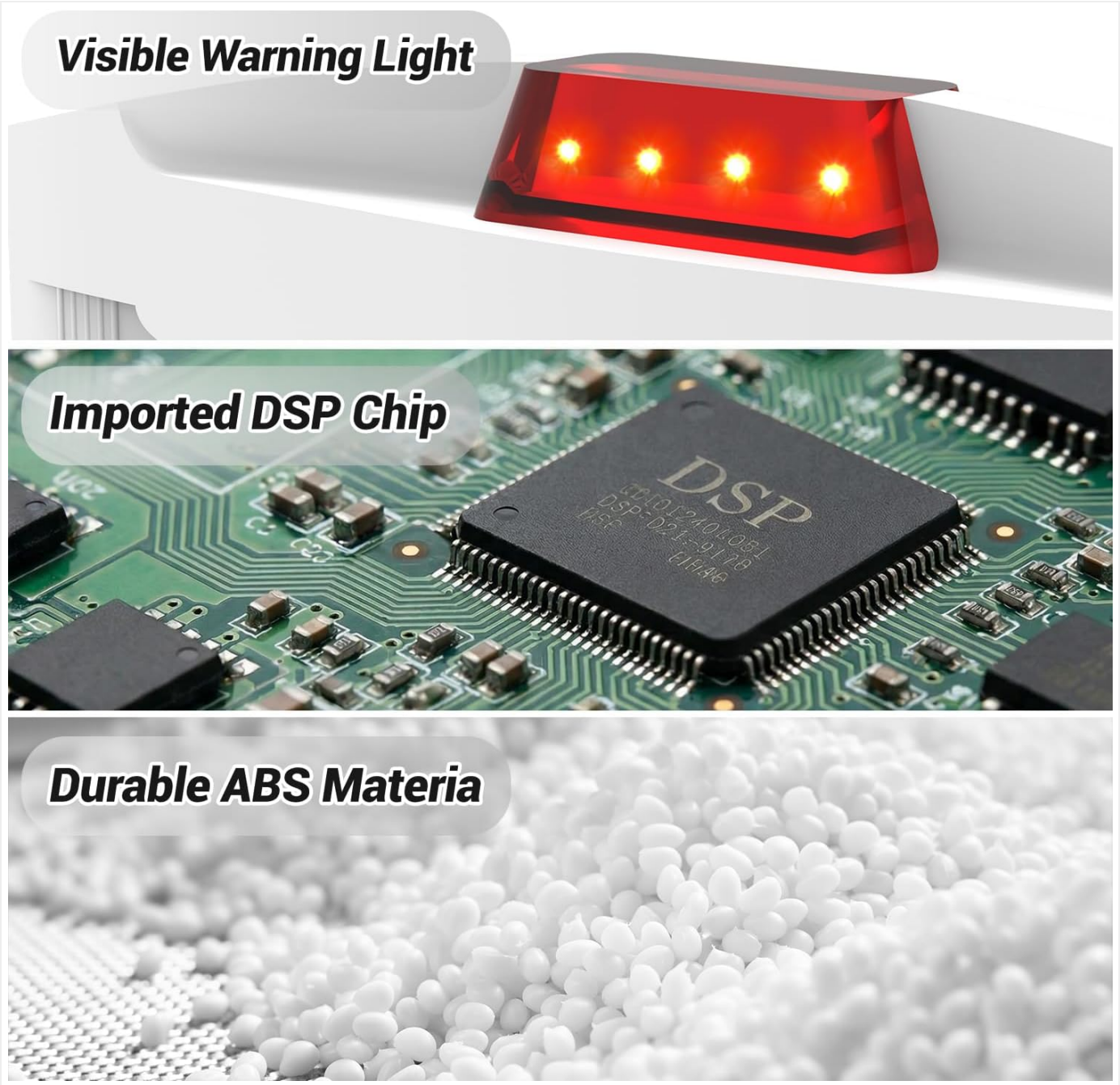


Figure 5.1: Internal components and material quality of the security system.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Aoeekei Anti-Theft Security System.

- **Cleaning:** Periodically wipe down the exterior of the gates with a soft, damp cloth. Avoid abrasive cleaners or

solvents that could damage the finish.

- **Cable Inspection:** Regularly check all cables for any signs of wear, fraying, or damage. Replace damaged cables immediately to prevent system malfunction.
- **Environmental Conditions:** Ensure the installation area remains within recommended environmental conditions (temperature, humidity) to prevent damage to electronic components.
- **Tag Management:** Ensure all merchandise is correctly tagged and that deactivators (if used) are functioning properly to avoid false alarms.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Aoeeeki Anti-Theft Security System.

Problem	Possible Cause	Solution
No Power/System Not Turning On	Power cable disconnected; Power supply switch off; Faulty power supply.	Check all power connections; Ensure power switch is ON; Test power supply with another device if possible.
False Alarms	Interference from nearby electronics; Incorrect tag deactivation; Tags too close to the gates; Non-compatible tags.	Relocate interfering devices; Ensure tags are fully deactivated; Increase distance between tagged items and gates; Verify tags are 8.2MHz RF compatible.
No Detection/Tags Not Triggering Alarm	Incorrect gate spacing; Damaged tags; System not powered on; Faulty connection cable.	Adjust gate spacing to 90-120 cm; Inspect tags for damage; Confirm system is powered on; Check sync cable connection.
Weak Detection Range	Environmental interference; Incorrect sensitivity settings (if adjustable); Tag type.	Minimize interference; Consult professional for sensitivity adjustment; Ensure appropriate tags are used for desired range.

If you continue to experience issues after attempting these troubleshooting steps, please contact Aoeeeki customer support for assistance.

8. WARRANTY AND CUSTOMER SUPPORT

Aoeeeki anti-theft systems are manufactured to high standards and undergo rigorous testing to ensure stable performance and reliable protection.

- **Technical Installation Guidance:** Aoeeeki provides free technical installation guidance to assist with setup.
- **Professional Solutions:** We offer professional commercial anti-theft system solutions tailored to your needs.
- **Product Maintenance:** Enjoy free product maintenance for life.
- **Contact Support:** If you encounter any problems or require assistance, please contact the seller via email. We are committed to providing a satisfactory solution promptly.

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

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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