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Beghelli 60053

Beghelli Dom-e Wireless Outdoor Siren (Model 60053) User Manual

Solar Powered 10W and 230V Mains LoRa Technology

1. Introduction

The Beghelli wireless outdoor siren (model 60053) is designed to enhance the security of your premises. It is built to withstand various weather conditions, featuring an IP65 rating for full waterproofing and dust protection. The siren operates reliably in temperatures ranging from -20°C to +50°C.

Equipped with a built-in battery, the siren offers flexible power options: it can be powered by a 230V mains connection or by the included 10W solar panel. LoRa technology ensures stable wireless communication with the Dom-e central unit, with a range of up to 300 meters in obstacle-free environments. An integrated tamper switch on the back triggers the siren immediately if tampering attempts are detected. The siren provides both light and sound signals to indicate alarm status.

2. Safety Information

- **Compatibility:** This siren is an accessory for the DOM-E Beghelli alarm system kit (item number 60105). It requires a control panel for operation and cannot be used as a standalone device.
- **Environmental Conditions:** The siren is rated IP65, making it waterproof and dustproof. It is designed for outdoor use and can operate in temperatures from -20°C to +50°C. Ensure proper installation to maintain its IP65 rating.
- **Power Supply:** Use either the 230V mains power or the provided 10W solar panel. Ensure all electrical connections are made by a qualified professional if connecting to mains power.
- **Tamper Protection:** The siren includes a built-in anti-tamper switch. Avoid unauthorized removal or manipulation of the device, as this will trigger an alarm.
- **Installation:** Follow all installation instructions carefully. Ensure the siren and solar panel are securely mounted to prevent accidental falls.

3. Package Contents

Verify that all the following items are included in your package:

- Beghelli Wireless Outdoor Siren (Model 60053)

- 10W Solar Panel
- 3-meter Connection Cable (for siren to solar panel)
- Mounting Hardware (screws, wall plugs)
- User Manual (this document)

4. Product Overview

The Beghelli Dom-e Wireless Outdoor Siren is designed for robust outdoor performance, integrating seamlessly with your Dom-e alarm system. It features a durable casing, a powerful siren, and a bright light signal for effective alarm notification.

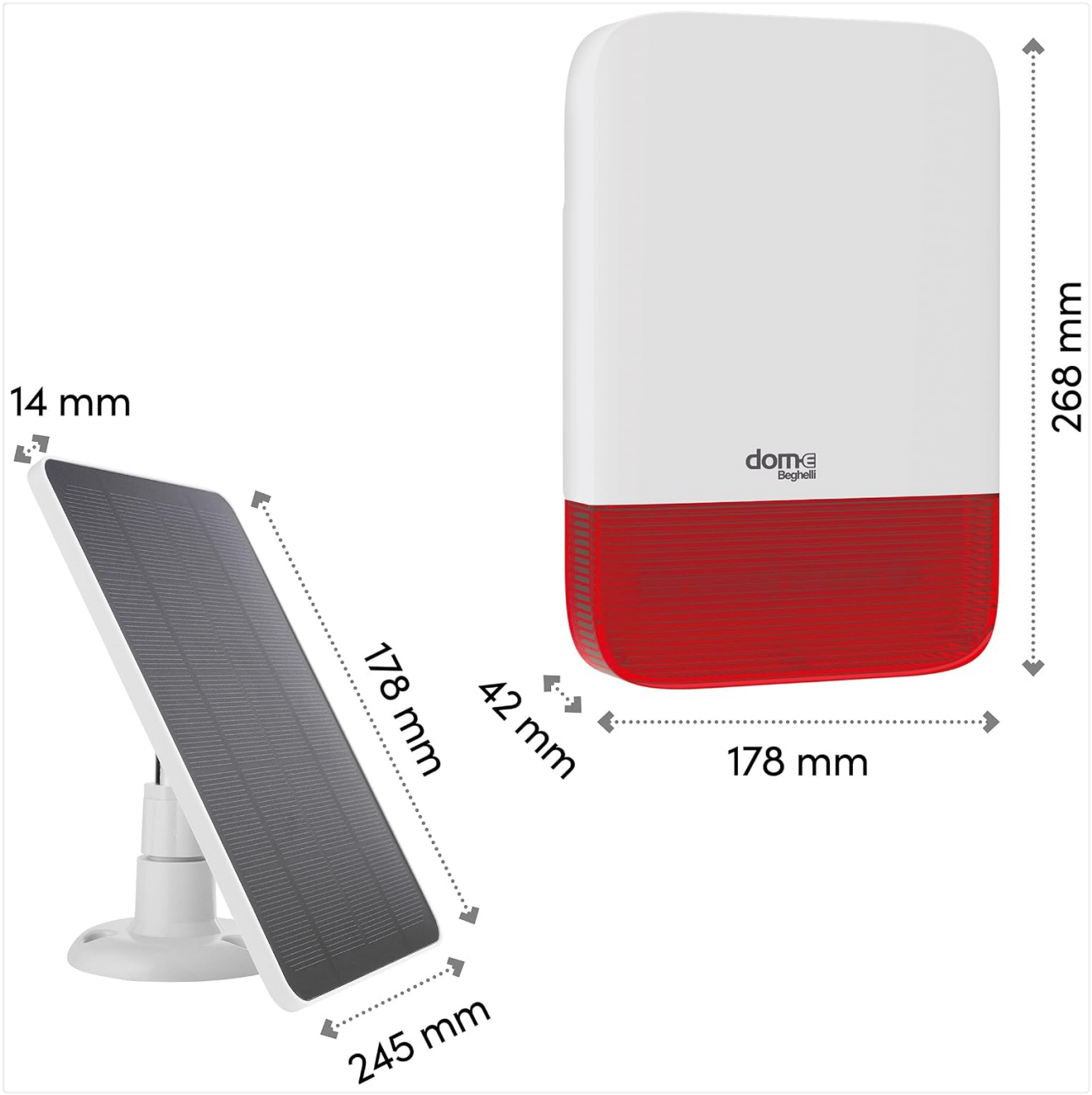


Figure 4.1: Front view of the Beghelli Dom-e Wireless Outdoor Siren and its accompanying solar panel. The siren features a white upper body and a red lower light/sound section.



Figure 4.2: Side view of the Beghelli Dom-e Wireless Outdoor Siren and solar panel, showing their profiles and mounting brackets.

4.1 Dimensions

Understanding the product dimensions is crucial for proper installation planning.



Figure 4.3: Detailed dimensions of the Beghelli Dom-e Wireless Outdoor Siren and its solar panel. The siren measures approximately 268mm (height) x 178mm (width) x 42mm (depth). The solar panel measures approximately 245mm (length) x 178mm (width) x 14mm (thickness).

4.2 Key Features

The siren incorporates advanced features for reliable security.

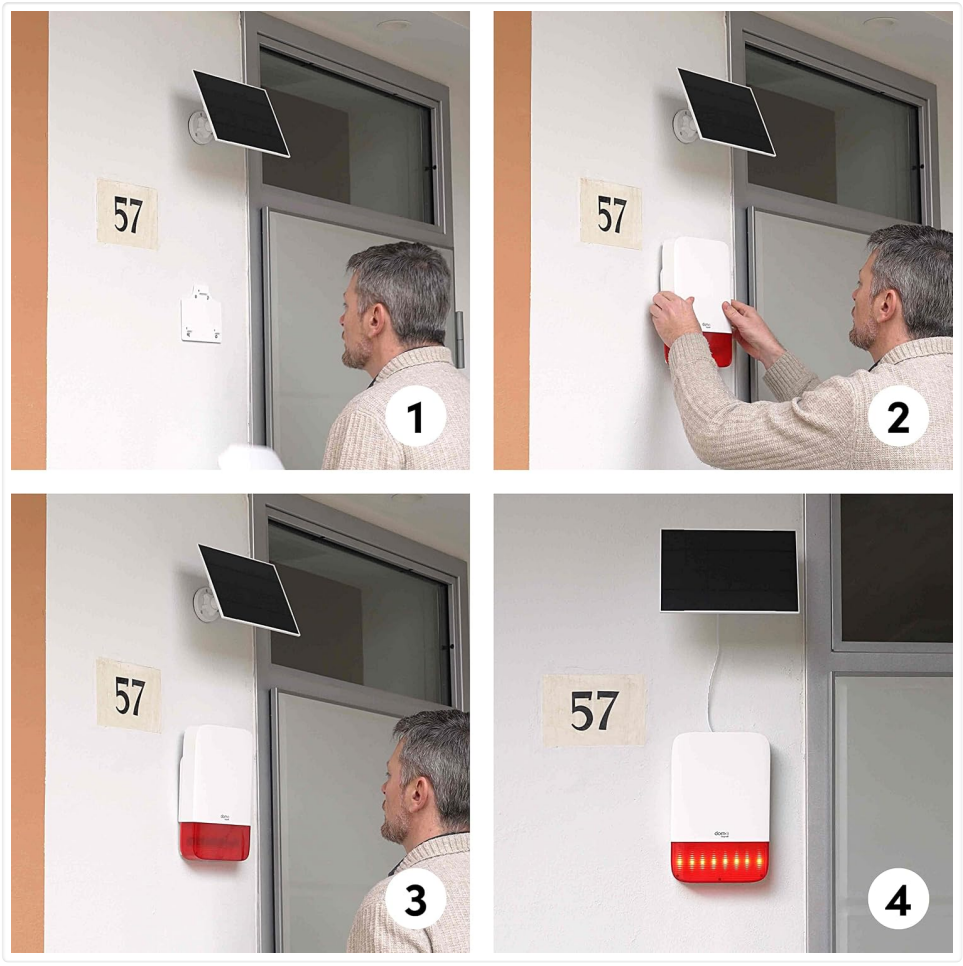


Figure 4.4: Overview of key features: Wireless outdoor siren for Dom-e central unit, LoRa technology, IP65 water resistant, no cables needed (for communication), 10W solar panel, and anti-blackout battery.

5. Setup and Installation

The installation process is designed to be straightforward. Ensure you have the necessary tools (drill, screwdriver, level) before beginning.

5.1 Mounting the Siren and Solar Panel

1. **Step 1: Select Location and Mount Bracket.** Choose an optimal outdoor location for the siren and solar panel. The solar panel should receive direct sunlight for most of the day. Mount the siren's wall bracket and the solar panel's bracket securely to the wall using the provided screws and wall plugs.
2. **Step 2: Attach Siren to Bracket.** Carefully attach the Beghelli wireless outdoor siren to its mounted wall bracket. Ensure it clicks into place securely.
3. **Step 3: Position Solar Panel.** Attach the solar panel to its mounted bracket and adjust its angle to maximize sun exposure.
4. **Step 4: Connect Solar Panel to Siren.** Connect the 3-meter connection cable from the solar panel to the designated port on the siren. Ensure the connection is firm and sealed against moisture.



Figure 5.1: Installation Step 2: A person attaching the siren unit to the pre-mounted wall bracket.



Figure 5.2: Installation Step 3: The siren is securely attached to the wall, and the solar panel is mounted above it.



Figure 5.3: Installation Step 4: The siren and solar panel are fully installed and connected. The siren's light indicator is active, signifying power and operational status.

5.2 Power Supply Options

The siren offers dual power options for maximum flexibility:

- **Solar Power:** The included 10W solar panel charges the internal battery. Ensure the solar panel is positioned to receive adequate sunlight throughout the day.
- **230V Mains Power:** For continuous power or in areas with insufficient sunlight, the siren can be connected to a 230V mains power supply. This connection should be performed by a qualified electrician.

5.3 Pairing with Dom-e Central Unit

The siren communicates wirelessly with the Dom-e central unit (Code 60105) using LoRa technology. Pairing is quick and easy via the Dom-e app or directly through the central unit interface. No additional wiring is required for communication.

1. Ensure your Dom-e central unit is powered on and in pairing mode (refer to your central unit's manual for specific instructions).
2. Activate the pairing function on the siren (specific method may vary, often involves a button press or power cycle).
3. Confirm successful pairing through the Dom-e app or the central unit's display.

6. Operating the Siren

Once paired with the Dom-e central unit, the siren operates automatically in response to alarm events detected by the system.

- **Alarm Activation:** When an alarm is triggered by a sensor connected to the Dom-e central unit, the siren will activate, emitting a loud sound (120 dB) and flashing light signals.
- **Alarm Deactivation:** The siren will cease operation once the alarm system is disarmed via the Dom-e app or central unit.
- **Status Signals:** The siren may provide visual (light) and audible (sound) signals to indicate system arming/disarming status, as configured in your Dom-e system settings.
- **Tamper Detection:** If the siren is forcibly removed from its mounting or tampered with, the integrated tamper switch will trigger an immediate alarm, even if the main system is disarmed.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your Beghelli outdoor siren.

- **Solar Panel Cleaning:** Periodically clean the surface of the solar panel to remove dust, dirt, and debris that may reduce its charging efficiency. Use a soft, damp cloth and avoid abrasive cleaners.
- **Visual Inspection:** Regularly inspect the siren and solar panel for any signs of physical damage, loose connections, or obstructions.
- **Battery Check:** The internal battery is designed for long-term use. If you notice a significant decrease in performance or frequent low-battery alerts from your Dom-e system, consult the troubleshooting section or contact support.
- **Firmware Updates:** Ensure your Dom-e central unit and connected devices, including the siren, have the latest firmware updates for optimal performance and security. Check the Dom-e app for update notifications.

8. Troubleshooting

If you encounter issues with your Beghelli wireless outdoor siren, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Siren not activating during an alarm.	Not paired with central unit; low battery; out of LoRa range; central unit malfunction.	Verify pairing status in Dom-e app. Check battery level. Ensure siren is within 300m (line of sight) of central unit. Check central unit status.
Siren not charging via solar panel.	Solar panel obstructed or dirty; insufficient sunlight; faulty connection cable.	Clean solar panel surface. Reposition panel for maximum sun exposure. Check connection cable for damage and ensure it's securely plugged in.
Siren triggers unexpectedly.	Tamper switch activated; false alarm from another sensor; system malfunction.	Check if the siren has been disturbed or removed. Review Dom-e app event log for other sensor triggers. Contact support if issue persists.
Poor wireless communication.	Obstacles between siren and central unit; excessive distance.	Ensure minimal obstructions (thick walls, metal structures) between siren and central unit. Consider repositioning devices if range is an issue.

9. Specifications

Detailed technical specifications for the Beghelli Dom-e Wireless Outdoor Siren (Model 60053):

Feature	Specification
Model Number	60053
Brand	Beghelli
Color	Black (internal components), White/Red (external casing)
Power Source	Electric mains 230V and 10W Solar Panel
Battery	1 Nonstandard Battery (included)
Voltage	12 Volts
Compatible Devices	Dom-e LoRa Power Station, Dom-e app
Control Method	Remote (via Dom-e central unit/app)
Audible Noise Level	120 Decibels
Maximum Wireless Range	300 Meters (without obstacles)
Sensor Technology	LoRa
IP Rating	IP65 (Waterproof and Dustproof)
Operating Temperature	-20°C to +50°C
Item Weight	0.6 Kilograms
Built-In Media	Connection cable 3 meters, Solar panel 10W, Wireless outdoor siren

10. Warranty and Support

Beghelli is committed to providing quality products. This product is supported by an EU spare part availability duration of 8 years.

For warranty claims, technical support, or further assistance, please refer to the contact information provided with your purchase or visit the official Beghelli website. Keep your proof of purchase for warranty purposes.

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