Defiant DF-5416-WH-A

Defiant 180 Degree Motion Security Light User Manual

Model: DF-5416-WH-A

INTRODUCTION

Thank you for choosing the Defiant 180 Degree Motion Security Light. This outdoor motion-sensing security light is designed to provide enhanced safety and energy efficiency for your property. It features a wide 180-degree, 70 ft. motion sensor for reliable activation and is Energy Star qualified. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your security light.

SAFETY INFORMATION

Please read and understand all instructions before beginning installation. Failure to follow these instructions may result in electric shock, fire, or other hazards that could cause injury or property damage.

- **WARNING:** Risk of electric shock. Disconnect power at the fuse or circuit breaker before installing or servicing.
- **WARNING:** Risk of fire. Use only PAR38 incandescent (dimmable outdoor wet rated) or select PAR38 dimmable LED outdoor rated-wet rated bulbs. Do not exceed 120 watts per bulb.
- Consult a qualified electrician if you are unsure about the installation process.
- Install the fixture in a location suitable for outdoor use, away from flammable materials.
- Ensure all connections are secure and properly insulated.
- Operating temperature range: -25°C (-13°F) to +50°C (+120°F).

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Defiant 180 Degree Motion Security Light Fixture
- Mounting Hardware (screws, wire nuts)
- Instruction Manual
- *Note: Bulbs are not included.*

SETUP AND INSTALLATION

1. Mounting the Fixture

Choose a suitable mounting location on a wall or eave. The motion sensor works best when mounted 6-10 feet above the ground. Ensure the sensor has an unobstructed view of the area you wish to monitor.

Figure 1: Front view of the Defiant 180 Degree Motion Security Light, showing the two adjustable light heads and the motion sensor unit below.

1. Turn off power at the circuit breaker or fuse box.
2. Remove the existing fixture (if any) and disconnect wiring.
3. Attach the mounting bracket to the junction box using the provided screws.
4. Pull the electrical wires through the center hole of the mounting bracket.

2. Wiring Connections

Make sure power is still off before proceeding with wiring.

1. Connect the **black** wire from the fixture to the **black** (hot) wire from the junction box using a wire nut.
2. Connect the **white** wire from the fixture to the **white** (neutral) wire from the junction box using a wire nut.
3. Connect the **green** or bare copper (ground) wire from the fixture to the **ground** wire from the junction box using a wire nut.
4. Carefully tuck all wires into the junction box.

3. Securing the Fixture and Installing Bulbs

Figure 2: Side view of the security light, illustrating the adjustable swivel arms for positioning the light heads and sensor.

1. Align the fixture with the mounting bracket and secure it with the provided screws.
2. Install two PAR38 bulbs (up to 120 watts each, not included) into the sockets. Ensure bulbs are outdoor wet-rated.
3. Adjust the swivel arms and light heads to direct the light as desired.
4. Adjust the motion sensor's field of vision using its adjustable head.

Figure 3: Close-up of a light fixture, showing the protective bulb shield and the textured reflector surface.

OPERATING INSTRUCTIONS

Once installed, turn on the power at the circuit breaker. The light will enter a warm-up period for approximately 30-60 seconds before becoming fully operational.

Motion Sensor Settings

The motion sensor has adjustable settings, typically located on the bottom or side of the sensor unit.

- **Detection Range:** Adjust the sensitivity to control the detection distance (up to 70 ft.).
- **Time Setting:** Select how long the light stays on after motion is detected (e.g., 1 minute, 5 minutes, 20 minutes).
- **Dusk-to-Dawn Feature:** The light automatically deactivates during daylight hours to conserve energy. It will only activate with motion during nighttime.
- **AlertFlash:** This feature causes the lights to flash when motion is detected before illuminating to full brightness, providing an additional deterrent.
- **DualBrite 2-level lighting:** Provides energy-saving accent light at half power and full-power security light when motion

is detected. *(Note: Some models may not include this feature despite product descriptions.)*

Refer to the specific labels on your sensor for exact dial positions and functions.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your security light.

- **Cleaning:** Periodically wipe the fixture and sensor lens with a soft, damp cloth to remove dirt and debris. Do not use abrasive cleaners or solvents.
- **Bulb Replacement:**

  a. Turn off power at the circuit breaker before replacing bulbs.
  b. Allow bulbs to cool completely before handling.
  c. Unscrew the old bulb and screw in a new PAR38 incandescent (dimmable outdoor wet rated) or select PAR38 dimmable LED outdoor rated-wet rated bulb (up to 120 watts).
  d. The bulb-saver feature extends bulb life up to 4 times the life of standard bulbs.

- **Inspection:** Annually inspect wiring for any signs of wear or damage.

TROUBLESHOOTING

If your security light is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	No power to the fixture. Bulbs are burnt out or loose. Sensor is set to "Test" mode or too low sensitivity. Ambient light is too high (dusk-to-dawn sensor).	Check circuit breaker/fuse. Replace or tighten bulbs. Adjust sensor settings. Relocate fixture or block ambient light.
Light stays on constantly.	Continuous motion in detection zone. Sensor is faulty or obstructed. Wiring error.	Adjust sensor angle or sensitivity. Clear obstructions. Verify wiring connections.
Light flashes or flickers.	Loose wiring connection. Incorrect bulb type. Power fluctuations.	Check and secure all wire nuts. Ensure correct PAR38 bulbs are used. Consult an electrician if power issues persist.

SPECIFICATIONS

Feature	Detail
Model Number	DF-5416-WH-A
Brand	Defiant
Detection Range	180 Degrees, 70 ft.
Power Source	Corded Electric

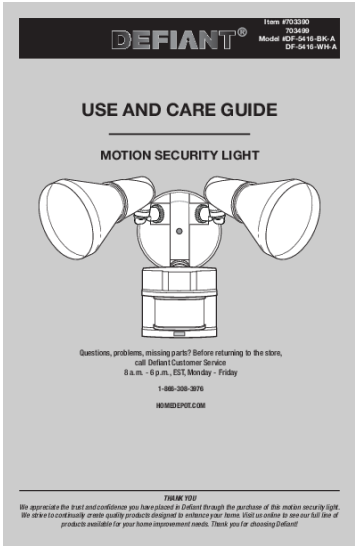| Feature	Detail
Voltage	110 Volts
Max Wattage (per bulb)	120 watts
Bulb Type Compatibility	PAR38 Incandescent (dimmable outdoor wet rated), select PAR38 Dimmable LED outdoor rated-wet rated
Operating Temperature	-25°C (-13°F) to +50°C (+120°F)
Dimensions (approx.)	8 x 6 x 7 inches
Weight (approx.)	1.88 pounds
Certifications	Energy Star Qualified

WARRANTY AND SUPPORT

Defiant products are manufactured to high-quality standards and are warranted to be free from defects in materials and workmanship for a specified period from the date of purchase. For warranty claims or technical support, please refer to the contact information provided on the product packaging or visit the official Defiant website.

Please retain your proof of purchase for warranty purposes.
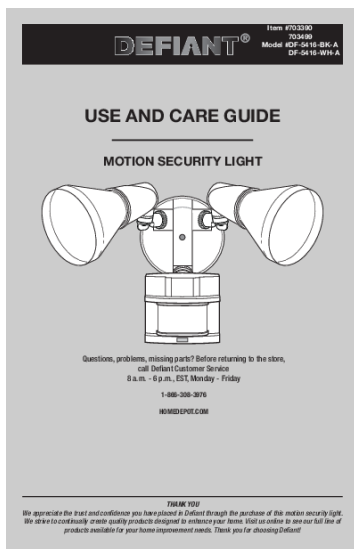
Documents - Defiant – DF-5416-WH-A

[Defiant Motion Security Light Use and Care Guide](#)
This Use and Care Guide provides essential instructions for the Defiant Motion Security Light, covering installation, operation, and troubleshooting to ensure safe and effective use of your home security lighting.
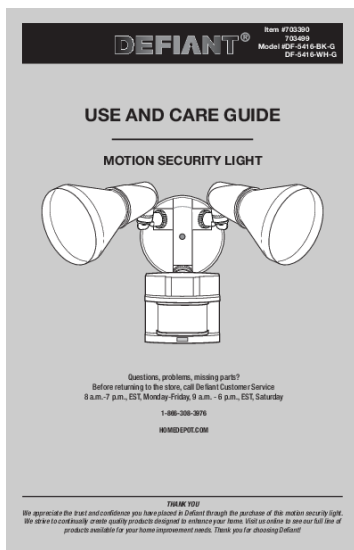lang:en score:40 filesize: 603.34 K page_count: 24 document date: 2014-09-04

[Defiant Motion Security Light Use and Care Guide](#)
Comprehensive guide for the Defiant Motion Security Light, covering installation, operation, care, and troubleshooting. Learn how to properly install and use your motion-activated security light for optimal performance and safety.
lang:en score:27 filesize: 603.37 K page_count: 24 document date: 2014-09-04

[Defiant Motion Security Light Use and Care Guide](#)
Comprehensive guide for installing, operating, and troubleshooting the Defiant Motion Security Light. Includes safety precautions, specifications, hardware details, and maintenance tips.
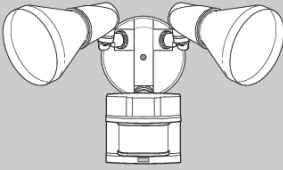lang:en score:15 filesize: 6.72 M page_count: 24 document date: 2021-01-19

DEFIANT®

USE AND CARE GUIDE

MOTION SECURITY LIGHT

THANK YOU
We appreciate the trust and confidence you have placed in Defiant through the purchase of this motion security light.
We strive to continually create quality products designed to enhance your home. Visit us online to see our full line of
products available for your home improvement needs. Thank you for choosing Defiant!

Defiant Motion Security Light Use and Care Guide
A comprehensive guide for the Defiant Motion Security Light, covering installation, operation, care, and troubleshooting. Learn how to properly install and use your motion security light for optimal performance and safety.
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