

## Volteck REF-903L

# Volteck Lait REF-903L 50W LED Floodlight with Motion Sensor User Manual

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Volteck Lait REF-903L 50W LED Floodlight with Motion Sensor. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. SAFETY INFORMATION

**WARNING: Risk of electric shock. Installation should be performed by a qualified electrician.**

- Ensure power is disconnected at the circuit breaker before installation or servicing.
- Do not attempt to modify the product. Any modifications may void the warranty and pose safety risks.
- This product is designed for outdoor use. Ensure all connections are waterproofed and sealed appropriately.
- Do not look directly into the LED light source when illuminated, as it may cause eye damage.
- Keep packaging materials away from children.

## 3. PRODUCT OVERVIEW

The Volteck Lait REF-903L is a high-intensity 50W LED floodlight equipped with a motion sensor, designed for efficient and automatic illumination of wide areas. Its robust construction ensures durability in various weather conditions.

### Features:

- Aluminum body and weather-resistant tempered glass screen.
- High-intensity LED for wide area illumination with low energy consumption.
- SMD type LEDs.
- Adjustable bracket for flexible positioning.
- Integrated motion sensor for automatic activation.

### Components:

The following image illustrates the main components of the Volteck Lait REF-903L floodlight:



*Figure 3.1: Volteck Lait REF-903L LED Floodlight with labeled components including high-intensity LED, aluminum body, tempered glass cover, adjustable bracket, and motion sensor.*

A general view of the product is shown below:



Figure 3.2: Volteck Lait REF-903L 50W LED Floodlight.

Product Demonstration:

Watch this video for a 360-degree view of the Volteck Lait REF-903L LED Floodlight with Motion Sensor:

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Video 3.3: A detailed view of the Volteck Lait REF-903L LED Floodlight, showcasing its design and components from various angles.

4. SPECIFICATIONS

The following table details the technical specifications of the Volteck Lait REF-903L LED Floodlight:

Attribute	Value
Manufacturer	Truper SA de CV
Part Number	REF-903L
Color	Black
Style	Modern
Material	Aluminum
Shape	Reflector, Rectangular
Power Source	Corded Electric
Wattage	50 watts
Installation Method	Surface Mount
Bulb Type	LED
Luminous Flux	4500 lumens
Switch Style	Motion Sensor
Special Features	Energy Efficient, Motion Sensor
Product Dimensions	27 x 6 x 29 cm (Length x Width x Height)
Item Weight	1.7 Kilograms

Dimensions:

The physical dimensions of the floodlight are detailed in the image below:

# Grado de protección (IP)



1ER DÍGITO: PROTECCIÓN CONTRA SÓLIDOS	2DO DÍGITO: PROTECCIÓN CONTRA LÍQUIDOS
0 Sin protección	0 Sin protección
1 Protección contra objetos de diametro superior a 50 MM	1 Protección contra goteo vertical o condensación
2 Protección contra objetos de diametro superior a 12 MM	2 Protección contra goteo con una inclinación de 15 grados
3 Protección contra objetos con diametro superior a 2.5 MM	3 Protección contra goteo con una inclinación de 60 grados
4 Protección contra objetos con diametro superior a 1 MM	4 Protección contra salpicaduras de gotas en todas direcciones
5 Protegido contra ingreso limitado de polvo	5 Protección contra chorros de agua a bajo presión
6 Totalmente protegido contra el polvo	6 Protección contra potentes y continuos chorros de agua
	7 Protección contra inmersiones temporales
	8 Protección contra inmersiones prolongadas o permanentes

Figure 4.1: Dimensions of the Volteck Lait REF-903L LED Floodlight (Length 29 cm, Height 27 cm).

## Ingress Protection (IP) Rating:

The floodlight has an IP65 rating, indicating its resistance to dust and water. The breakdown of the IP rating is as follows:





Figure 4.2: Explanation of Ingress Protection (IP) ratings. IP65 signifies complete protection against dust (first digit '6') and protection against low-pressure water jets from any direction (second digit '5').

## 5. SETUP AND INSTALLATION

Before beginning installation, ensure you have read and understood the safety information in Section 2.

## 5.1 Mounting the Floodlight:

1. Choose a suitable surface for mounting, such as a wall or eave, ensuring it can support the weight of the floodlight.
2. Use the adjustable bracket to mark the drilling points on the mounting surface.
3. Drill holes and insert appropriate wall anchors (not included, depending on surface type).
4. Secure the floodlight bracket to the surface using screws.
5. Adjust the angle of the floodlight to direct illumination as desired.

## 5.2 Electrical Wiring:

**IMPORTANT: Disconnect power at the main circuit breaker before wiring.**

1. Identify the live, neutral, and ground wires from your electrical supply.
2. Connect the floodlight's wires to the corresponding electrical supply wires. Typically:
  - Brown/Black wire to Live (L)
  - Blue wire to Neutral (N)
  - Green/Yellow wire to Ground (GND)
3. Ensure all connections are secure and insulated with waterproof connectors suitable for outdoor use.
4. Restore power at the circuit breaker after completing all connections.

## 5.3 Adjusting the Motion Sensor:

The motion sensor typically has adjustable settings for sensitivity (detection range), time (how long the light stays on after motion is detected), and lux (ambient light level at which the sensor becomes active). Refer to the sensor unit for specific adjustment dials or buttons.

## 6. OPERATING INSTRUCTIONS

Once installed and powered, the Volteck Lait REF-903L floodlight operates automatically based on its motion sensor settings.

### Motion Sensor Operation:

- The motion sensor detects movement within its specified range and angle.
- When motion is detected and the ambient light level is below the set lux threshold, the floodlight will turn on.
- The light will remain on for the duration set by the 'TIME' adjustment dial.
- If motion is continuously detected, the light will remain on until motion ceases and the timer expires.

Observe the motion sensor in action:

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*Video 6.1: Demonstration of the motion sensor activating the LED floodlight when movement is detected in a dark environment.*

## 7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your floodlight.

- **Cleaning:** Periodically clean the glass screen and motion sensor lens with a soft, damp cloth to remove dirt, dust, or debris that may obstruct light output or sensor function. Do not use abrasive cleaners.
- **Inspection:** Annually inspect the wiring and mounting for any signs of wear, damage, or loosening. Ensure all seals remain intact to maintain weather resistance.
- **LEDs:** The LEDs are designed for long life and are not user-replaceable. If the LEDs fail, the entire unit should be replaced.

## 8. TROUBLESHOOTING

If you encounter issues with your Volteck Lait REF-903L floodlight, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power supply. Sensor settings incorrect. Faulty wiring.	Check circuit breaker. Adjust LUX setting to a darker level or TIME setting. Verify all electrical connections are secure.
Light stays on continuously.	Continuous motion detected. Sensor settings incorrect. Sensor malfunction.	Ensure no constant movement in detection zone. Adjust TIME setting to a shorter duration. If problem persists, contact support.
Light turns on during daylight.	LUX setting too high.	Adjust LUX setting to a lower (darker) level.
Motion sensor not detecting.	Obstruction on sensor lens. Sensitivity setting too low. Sensor angle incorrect.	Clean sensor lens. Increase sensitivity setting. Adjust sensor head to cover desired area.

## 9. WARRANTY AND SUPPORT

### Warranty Information:


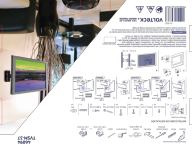




This Volteck Lait REF-903L LED Floodlight is covered by a 3-year warranty against manufacturing defects. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

### Customer Support:

For technical assistance, warranty claims, or further inquiries, please contact Volteck customer support through their official website or the retailer where the product was purchased. Provide your product model number (REF-903L) and a detailed description of the issue.





	<p><a href="#">Volteck LAIT Solar Bollard Light - Installation and Safety Instructions</a></p> <p>Comprehensive guide for installing and using the Volteck LAIT solar bollard light (Model 49073 ARB-704L). Includes specifications, safety measures, installation steps, and service center information.</p>
	<p><a href="#">VOLTECK 46094 TVSM-37 Full Motion Articulated TV Wall Mount</a></p> <p>Detailed information and installation guide for the VOLTECK 46094 TVSM-37 full motion articulated TV wall mount. Supports up to 37 kg (81 lb) and VESA 75/100/200 compatibility.</p>
	<p><a href="#">Installation Instructions for Volteck Electrical Products</a></p> <p>Step-by-step installation guide for Volteck electrical products, including safety warnings and best practices for wiring and mounting.</p>
	<p><a href="#">Volteck Installation Instructions and Safety Warnings</a></p> <p>Provides step-by-step installation instructions and essential safety warnings for Volteck products, emphasizing electrical safety and proper handling.</p>
	<p><a href="#">Volteck Electrical Product Installation Instructions</a></p> <p>Provides step-by-step instructions for installing Volteck electrical products, including safety warnings and best practices for optimal results.</p>
	<p><a href="#">Volteck Electrical Outlet Installation Instructions</a></p> <p>Step-by-step guide for installing a Volteck electrical outlet, including safety warnings and best practices for use.</p>