V-TAC VT-20-W

V-TAC LED Floodlight VT-20-W 20W 6400K White Instruction Manual

Model: VT-20-W | Brand: V-TAC

1. INTRODUCTION

Thank you for choosing the V-TAC LED Floodlight VT-20-W. This manual provides essential information for the safe installation, operation, and maintenance of your new LED floodlight. Please read these instructions carefully before installation and retain them for future reference.

Image 1.1: V-TAC LED Floodlight VT-20-W (Front View)

This image shows the V-TAC LED Floodlight VT-20-W from the front, highlighting its compact design and LED array.

2. SAFETY INFORMATION

WARNING: Always disconnect power before installation or maintenance.

- Installation should be performed by a qualified electrician.
- Ensure the power supply voltage matches the product's requirements (AC 220-240V, 50Hz).
- Do not operate the floodlight if the housing or cable is damaged.
- This product is designed for outdoor use (IP65 rated). Ensure all connections are waterproof.
- Do not stare directly into the LED light source when illuminated.
- Keep away from flammable materials.
- Ensure proper grounding.

3. PACKAGE CONTENTS

The package includes the following items:

- 1 x V-TAC LED Floodlight VT-20-W

- Instruction Manual (this document)

Image 3.1: Product Packaging

This image displays the retail packaging for the V-TAC LED Floodlight, indicating key features like 20W power, 100° beaming angle, 1600lm brightness, and 30,000H long life.

4. PRODUCT OVERVIEW AND FEATURES

The V-TAC LED Floodlight VT-20-W is a high-performance outdoor lighting solution.

Key Features:

- **Power:** 20 Watts
- **Color Temperature:** 6400K (Cool White)
- **Luminous Flux:** 1600 Lumens
- **Beaming Angle:** 100°
- **Body Material:** Die-cast Aluminum
- **Ingress Protection (IP) Rating:** IP65 (Water and Dust Resistant)
- **Energy Efficiency:** Up to 85% energy saving compared to traditional lighting.

- **Long Lifespan:** Approximately 30,000 hours.
- **Efficient Heat Sink:** Designed to prevent overheating and prolong lamp lifespan.
- **SMD LEDs:** Utilizes Surface Mounted Device (SMD) LEDs for efficient illumination.

Dimensions:

The floodlight has compact dimensions suitable for various outdoor installations.

- **Length:** 15.3 cm
- **Width:** 13.2 cm
- **Depth:** 2.7 cm
- **Weight:** 400 g

Image 4.1: Product Dimensions

This image illustrates the physical dimensions of the V-TAC LED Floodlight, showing a length of 153 mm, a height of 132 mm, and a depth of 27 mm.

Image 4.2: IP65 Rating

This image highlights the IP65 rating of the floodlight, indicating its resistance to water and dust, making it suitable for outdoor use.

Image 4.3: Efficient Heat Sink

This image displays the rear of the floodlight, emphasizing the efficient heat sink design which helps prevent overheating and extends the product's lifespan.

5. SETUP AND INSTALLATION

This floodlight is designed for outdoor use and can be mounted as a freestanding unit. Professional installation by a qualified electrician is highly recommended to ensure safety and compliance with local electrical codes.

Installation Steps:

1. **Power Disconnection:** Before starting any installation, ensure the main power supply to the installation area is switched off at the circuit breaker.
2. **Mounting Location:** Choose a suitable outdoor location that provides the desired illumination coverage and allows for secure mounting. The floodlight comes with a bracket for surface mounting.
3. **Secure Mounting:** Use appropriate screws and anchors (not included) to securely fasten the mounting bracket to the desired surface. Ensure the surface can support the weight of the floodlight.
4. **Wiring Connection:**

   - Connect the brown wire (L) to the Live terminal.

- Connect the blue wire (N) to the Neutral terminal.
- Connect the yellow/green wire (E) to the Earth/Ground terminal.

Ensure all connections are tight and properly insulated, especially for outdoor environments, to maintain the IP65 rating. Use a waterproof junction box if necessary.

5. **Adjust Angle:** Once mounted and wired, adjust the floodlight's angle to direct the light as required.
6. **Power Restoration:** Restore power to the circuit and test the floodlight.

Image 5.1: Wiring Connections

This image displays the rear of the floodlight, showing the electrical cable with brown (Live), blue (Neutral), and yellow/green (Earth) wires for connection.

6. OPERATING INSTRUCTIONS

The V-TAC LED Floodlight VT-20-W operates by direct connection to your electrical mains.

1. Ensure the floodlight is correctly installed and wired according to the "Setup and Installation" section.
2. Switch on the power supply to the floodlight circuit. The floodlight will illuminate instantly.

3. To turn off the floodlight, switch off the power supply to its circuit.

For automated operation (e.g., dusk-to-dawn or motion sensing), an external sensor or timer switch must be installed by a qualified electrician.

Image 6.1: Floodlight in Outdoor Application

This image shows multiple V-TAC LED Floodlights illuminating the exterior of a building at night, demonstrating their effectiveness in outdoor lighting.

7. MAINTENANCE

The V-TAC LED Floodlight VT-20-W requires minimal maintenance.

- **Cleaning:** Ensure the floodlight is switched off and cool before cleaning. Wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the floodlight and its wiring for any signs of damage, wear, or loose connections. Address any issues promptly.
- **No User-Serviceable Parts:** There are no user-serviceable parts inside the floodlight. Do not attempt to open or repair the unit.

8. TROUBLESHOOTING

If you encounter issues with your V-TAC LED Floodlight, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Floodlight does not turn on.	No power supply. Loose wiring connection. Faulty switch or circuit breaker. Damaged floodlight.	Check if the power supply is on. Inspect wiring for secure connections (ensure power is off first). Check and reset the circuit breaker or test the switch. If damaged, contact V-TAC support or a qualified electrician.
Light output is dim or flickering.	Unstable power supply. Loose connection. Product nearing end of life.	Verify stable power supply. Check wiring connections (ensure power is off first). If the product is old, replacement may be necessary.

If the problem persists after attempting these solutions, contact V-TAC customer support or a qualified electrician.

9. SPECIFICATIONS

Parameter	Value
Model Number	VT-20-W
Power	20 Watts
Input Voltage	AC 220-240V, 50Hz
Luminous Flux	1600 Lumens
Color Temperature	6400K (Cool White)
Body Color	White
Material	Die-cast Aluminum
Product Dimensions (L x W x D)	15.3 x 13.2 x 2.7 cm
Weight	400 g
IP Rating	IP65
Specific Use	Outdoor use
Installation Type	Freestanding (with mounting bracket)
Energy Efficiency Class	F
Energy Consumption (1000h)	20 kWh
CRI (Color Rendering Index)	80

Image 9.1: EU Energy Label

This image shows the EU energy label for the V-TAC LED Floodlight, indicating an energy efficiency class of F and an energy consumption of 20 kWh per 1000 hours. More details can be found at eprel.ec.europa.eu/qr/966766.

10. WARRANTY AND SUPPORT

V-TAC products are manufactured to high standards and are designed for durability. While specific warranty details are not provided in this manual, V-TAC typically offers a warranty period for its products. Please refer to your purchase documentation or the official V-TAC website for detailed warranty information.

For technical support, troubleshooting assistance, or warranty claims, please contact your local V-TAC distributor or visit the official V-TAC website.

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