

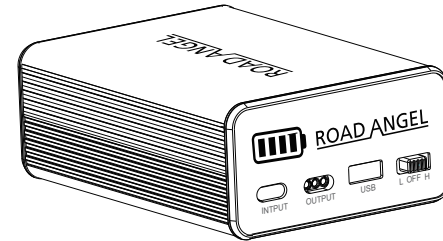
# ROAD ANGEL

## INSTRUCTION MANUAL

Road Angel is a premier brand dedicated to enhancing vehicle safety and energy management through advanced technology. Our mission is to provide intelligent power solutions that safeguard your vehicle while ensuring your safety dash camera ensuring our Dash Cams operates at peak performance.

### Product Specifications

The RA-BP9000 is a high-performance external battery pack designed specifically for DashCams, utilising advanced battery chemistry for maximum safety and longevity.



Feature:	Specification
Product Name:	Road Angel DashCam External Battery Pack
Battery Chemistry:	Lithium Iron Phosphate (LiFePO4)
Capacity:	9000mAh
Construction:	Premium Aluminum Alloy & Flame-resistant ABS+PC
ACC Input:	12V / 4A – 8A
ACC Output:	12V / 3A
USB Output:	5V / 3A

#### Performance & Usage

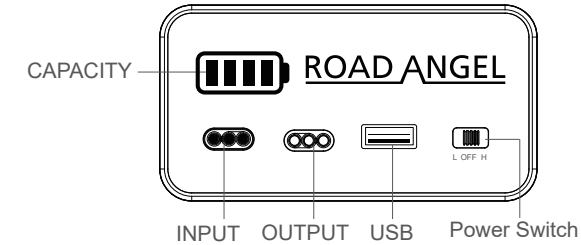
This battery pack is engineered to provide extended recording times, ensuring your vehicle remains protected even when parked for long periods.

#### Estimated Run Times

- Single-Channel (1CH) DashCam: Up to 72 hours (based on 1.6W consumption).
- Dual-Channel (2CH) DashCam: Up to 36 hours (based on 3.2W consumption).

Note: Actual performance may vary depending on your specific DashCam model and settings.

### Product Introduction



The Road Angel RA-BP9000 is a dedicated external power solution designed to provide reliable energy for all 12V automotive systems. This high-capacity battery pack is specifically engineered for DashCam use which require continuous recording without compromising their vehicle's primary battery health.

Built with a focus on both performance and durability, the unit features a robust aluminium alloy and flame-resistant ABS+PC housing. It utilises advanced **LiFePO4 (Lithium Iron Phosphate)** battery technology, which is widely recognised for its superior safety, thermal stability, and long cycle life compared to standard lithium-ion alternatives.

#### Key Features

- **High Capacity:** Equipped with a 9000mAh capacity to support extended recording sessions.
- **Smart Power Management:** Automatically manages power distribution to the DashCam based on the vehicle's ignition status.
- **Safety First:** Protects the vehicle's sensitive electronic control units (ECUs) and security systems by isolating the DashCam's power draw.
- **Versatile Connectivity:** Includes a dedicated 12V ACC output for DashCams and an additional 5V USB output for charging mobile devices.
- **Dual-Speed Charging:** Features a user-selectable power switch allowing for either high-speed (H) or low-speed (L) charging modes.

### Installation

The Road Angel RA-BP9000 offers two primary ways to obtain power from your vehicle. Please choose the method that best suits your vehicle type and technical ability.



#### Preparation: The Power Switch

Before installation, you must configure the power switch on the unit. The Power Switch is set to OFF by factory default and will not charge or output power in this state.

- Move to 'H' (High Speed): Select this for rapid charging.
- Move to 'L' (Low Speed): Select this for standard/low-speed charging.

#### Method 1: 12V Accessory Socket / Cigarette Lighter

This is the recommended DIY installation method:

1. **Input:** Use the provided Special Cigarette Lighter Input Cable to connect the vehicle's 12V socket to the INPUT port on the battery pack.
2. **Output:** Use the Output Cable to connect the RA-BP9000 OUTPUT port, this connects to your DashCam.
3. **Mounting:** Secure the battery pack in a safe location (e.g., under the seat or boot) using the provided Fixed Velcro strips.

#### Method 2: Fuse Box Hardwiring (Professional Installation)

This method provides a hidden, permanent installation which requires advanced technical knowledge.

1. **Technician Required:** We strongly recommend this method be performed by an experienced automotive technician.
2. **Connection:** The RA-BP9000 is connected directly to the vehicle's fuse box using the ACC and Ground (GND) terminals using the INPUT port.

#### Compatibility Note

- **Charging:** The vehicle only charges the battery pack when the ignition is on (ACC power).
- **Cable Safety:** Always use the manufacturer-supplied cables to ensure the protection of the internal circuit and vehicle electronics

### Packaging List

#### What's in The Box ?

- Battery x1
- Special Cigarette Lighter Input Cable x1
- Special Dashcam Output Cable x1
- User Manual x1
- Product Fixed Velcro x2



### Usage Time & Battery Performance

The RA-BP9000 provides extended power based on the energy consumption of your specific DashCam setup. The following estimates are based on the 9000mAh capacity:

DashCam Configuration	Estimated Runtime	Power Consumption
Single-Channel (Front only)	Up to 72 Hours <sup>3</sup>	1.6W <sup>4</sup>
Dual-Channel (Front & Rear)	Up to 36 Hours <sup>5</sup>	3.2W <sup>6</sup>

Note: Actual usage time depends on the specific DashCam model, its power consumption.

### Safety Guidelines & Warnings

Improper use of the RA-BP9000 battery can lead to performance degradation, overheating, or risk of fire. Please adhere to the following safety standards:

#### Installation & Handling

- **Approved Cabling:** Only use the cables provided by the manufacturer to ensure compatibility and safety.
- **No Modifications:** Do not attempt to compress, disassemble, drill into, or modify the RA-BP900 battery by yourself.
- **Terminal Safety:** Ensure the metal connecting terminals do not touch conductive objects to prevent short-circuiting.

#### Installation Environmental Protection

- **Temperature Control:** Store the unit away from direct sunlight and high-temperature environments.
- **Moisture Prevention:** Keep the battery away from water and all forms of liquid. Immediate Action Required
- **Unusual Odours:** If you detect a peculiar smell during use, stop using the device and replace it immediately.
- **Physical Distortion:** If the product appears "swollen" or inflated, discontinue use immediately to avoid the risk of fire or explosion.

#### Disposal & Responsibility

- **Ethical Disposal:** Do not dispose of the battery in household waste. Follow local UK and European recycling regulations for Lithium Iron Phosphate (LiFePO4) batteries