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## UDIRC UD1610S

# UDIRC 1610S Brushless Fast RC Car Instruction Manual

Model: UD1610S | Brand: UDIRC

## 1. INTRODUCTION

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The UDIRC 1610S is a 1:16 scale 4WD Ready-To-Run (RTR) Off-Road Monster RC Truck designed for high-speed performance and durability. Equipped with a powerful brushless motor and a 3S LiPo battery, it delivers exceptional speed and agility. This manual provides essential information for setting up, operating, and maintaining your RC car to ensure optimal performance and longevity.

### Key Features:

- 2845 4700KV brushless motor and 60A ESC for speeds over 56 MPH.
- Capable of standing backflips in stock setup.
- Fully CNC-Machined Chromium Steel drive system for durability.
- Programmable ESC for customized throttle response, braking, and low-voltage cutoff.
- Includes a 2400 mAh 3S LiPo Battery for high performance.
- Independent suspension with aluminum oil-shocks and reinforced components.
- Dumbo Pro 2.4GHz Radio System with 6 control channels.

## 2. WHAT'S IN THE BOX

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- UDIRC 1610S RC Truck
- 2.4GHz Transmitter
- 2400 mAh 3S LiPo Battery
- Battery Charger
- 4 Upper A-Arms & 4 Lower A-Arms
- Screwdriver
- Instruction Manual

## 3. SAFETY INFORMATION

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This product is not suitable for children under 14 years old. Small parts may pose a choking hazard. Always read and understand the instruction manual carefully before use. Failure to follow instructions may result in damage to the product, personal injury, or property damage.

- Always disconnect the battery when not in use to prevent accidental operation.
- Ensure batteries are fully charged and separated before recharging.

- Use only the provided charger or a compatible USB adapter for charging.
- Avoid operating the vehicle in crowded areas, near children, or where there is a risk of injury.
- The vehicle must stop immediately and be checked for abnormal operation if any issues arise.

## 4. SETUP

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### 4.1 Battery Installation and Charging

The UDIRC 1610S comes with a 2400 mAh 3S LiPo battery. Ensure the battery is fully charged before first use. Connect the battery to the provided charger and plug the charger into a compatible USB power source. The charger's indicator light will show charging status (e.g., red for charging, green for fully charged).

To install the battery in the vehicle, secure it in the designated battery compartment using the Velcro strap. Ensure all connections are firm.

### 4.2 Transmitter Setup

The Dumbo Pro 2.4GHz radio system provides precise control. Install 4 AA batteries (not included) into the transmitter. Turn on the transmitter before turning on the vehicle. The transmitter features trim adjustments for steering and throttle, allowing you to fine-tune the vehicle's handling.

### 4.3 ESC Programming

The 60A ESC is programmable, allowing you to customize various parameters to match your driving style and track conditions. An optional ESC programming card (sold separately) can be used to adjust settings such as throttle response curve, braking power, drag brake intensity, and low-voltage cutoff.



Image: Programmable ESC unit for fine-tuning vehicle performance.

### 4.4 Light Installation

The UDIRC 1610S comes with LED lights for enhanced visibility. To install the lights, carefully route the wires and connect them to the designated ports on the receiver. Ensure the connections are secure to prevent dislodging during operation.

## 5. OPERATING

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### 5.1 Basic Controls

Turn on the transmitter first, then the vehicle. The transmitter's steering wheel controls direction, while the trigger controls forward/reverse movement and braking. Familiarize yourself with the controls in an open area before attempting high-speed maneuvers.

### 5.2 Driving Modes

The programmable ESC allows for different driving modes, including a racing mode and a backflip mode. These modes can be

configured using the optional ESC programming card to optimize performance for various stunts or racing conditions.



Image: Illustration of Racing Mode and Backflip Mode selection.

### 5.3 Self-Righting Function

The UDIRC 1610S features a self-righting function, allowing the vehicle to flip itself back over after an overturn without manual intervention. This is achieved by quickly accelerating and then braking to use inertia to correct its orientation.

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Video: Demonstrates the self-righting function of the UDIRC 1610S, showing how it flips back over after an overturn.

## 6. MAINTENANCE

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### 6.1 General Care

Regularly inspect your RC car for any loose screws, damaged parts, or debris. Clean the vehicle after each use, especially after running in dirt or wet conditions, to prevent buildup and ensure smooth operation. Store the vehicle in a dry, cool place away from direct sunlight.

### 6.2 Transmission System

The UDIRC 1610S features a fully CNC-Machined Chromium Steel drive system and a sealed driveshaft system. This robust design minimizes wear and tear, but periodic inspection of gears, universal driveshafts, and differentials is recommended. The quick-release design allows for easy access to the drivetrain and differentials for maintenance.



Image: Detailed view of the full steel transmission system.

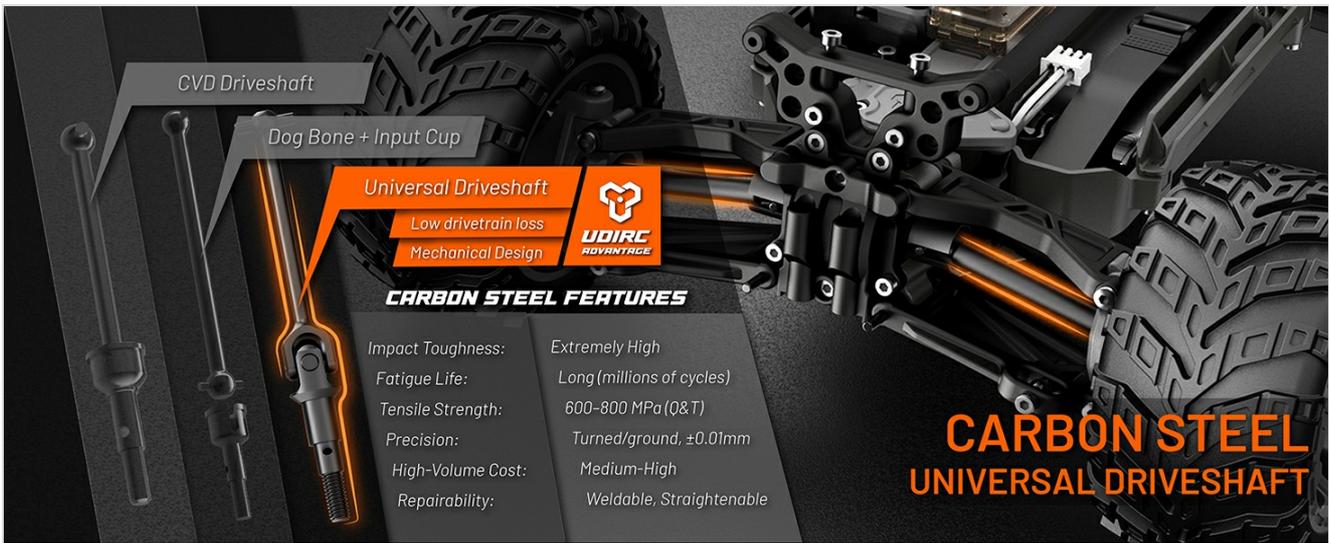


Image: Close-up of the carbon steel universal driveshaft.



Image: View of the fully sealed driveshaft system.

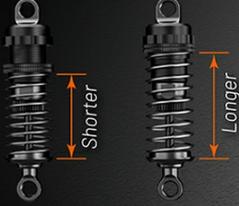
### 6.3 Shocks and Suspension

The independent suspension system features aluminum oil-filled shocks. Regularly check the shocks for leaks or damage. Adjust spring preload to modify ride height and ground clearance, and ensure proper oil levels for optimal damping.

## ALUMINIUM & ADJUSTABLE OIL-FILLED SHOCKS

To set ride height & ground clearance  
To control weight transfer during cornering  
To optimize tire contact for different surfaces  
To work in concert with shock oil (Damping)

Adjust Spring Preload



Data info.:

<b>OIL CST#</b>	300 CST
<b>Material</b>	ALU
<b>Spring Length</b>	0.71 inch
<b>Quantity</b>	4 PCS

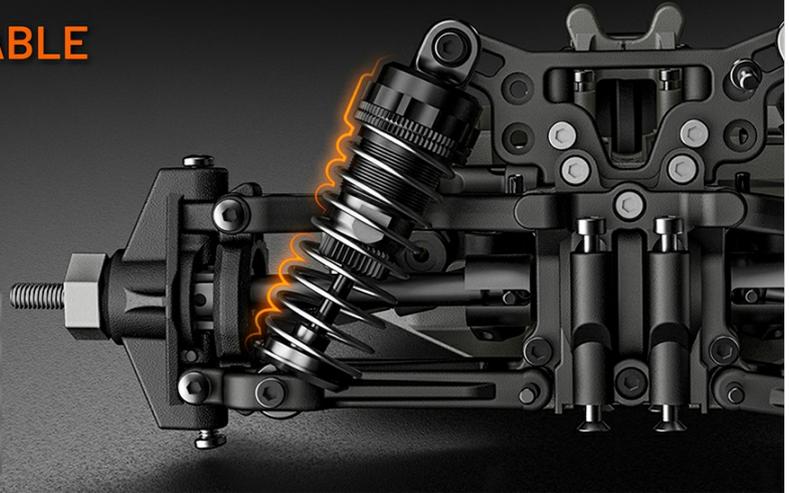


Image: Diagram showing adjustable oil-filled shocks and their components.

### 6.4 Wheel Hub Assembly

The precision-engineered wheel hub assembly ensures ultra-smooth handling and efficient power transfer. Periodically inspect the wheel hexes, bearings, and flange screw nuts for wear or looseness. Replace components as needed to maintain precision fit and prevent wheel wobble.

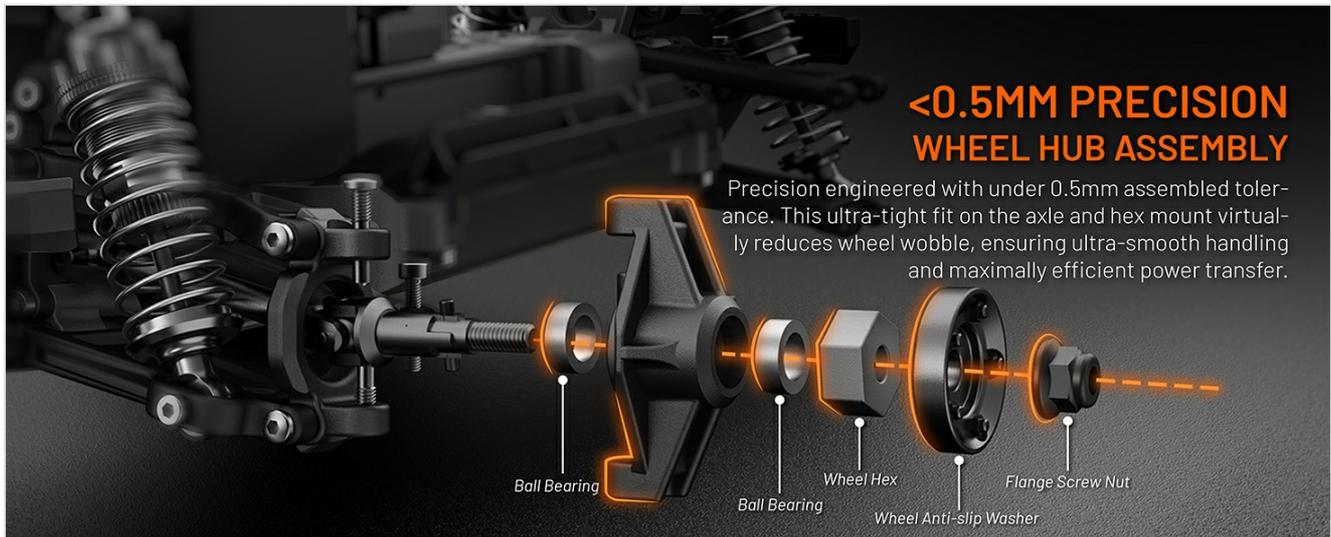


Image: Exploded view of the precision fit wheel hub assembly.

### 6.5 Quick-Release Drivetrain and Differential

The innovative quick-release design allows for full maintenance access to the drivetrain and differentials. The main driveshaft can be changed in under 30 seconds by removing just 7 screws, and differentials can be accessed quickly for service.



Image: Illustration of the quick-release drivetrain for rapid service.

## 7. TROUBLESHOOTING

If the vehicle exhibits abnormal behavior, stops responding, or experiences any issues, immediately stop operation and check for the following:

- **Battery Level:** Ensure the vehicle and transmitter batteries are fully charged.
- **Connections:** Verify all electrical connections are secure and free from damage.
- **Obstructions:** Check for any debris or foreign objects obstructing moving parts.
- **Damage:** Inspect for any visible damage to components such as gears, driveshafts, or suspension.
- **Binding:** Ensure all moving parts operate freely without binding.

If issues persist after basic troubleshooting, refer to the detailed troubleshooting section in the full instruction manual or contact UDIRC customer support.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	UD1610S
Product Dimensions	11.5 x 8.84 x 5.24 inches
Item Weight	4 pounds
Motor	2845 4700KV Brushless Motor
ESC	60A Brushless ESC
Battery	2400 mAh 3S 11.1V LiPo Battery
Top Speed	90+ km/h (56+ mph)
Radio System	Dumbo Pro 2.4GHz (6 channels)
Recommended Age	14 years and up

## 9. WARRANTY & SUPPORT

UDIRC is dedicated to providing high-quality products and excellent customer service. For any support needs, please refer to the following:

- **1-Year Free Parts for Amazon Customers:** Replacement parts are included within the first year of purchase.
- **Genuine Parts Always Available:** All genuine parts are available on Amazon, ensuring compatibility and efficiency for repairs and upgrades.
- **Full-Cycle Support:** Access video and PDF guides, and a pre-matched modular ecosystem for easy repair and seamless upgrades.
- **Return Policy:** This product is eligible for a refund/replacement within 30 days of purchase.