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## SMARTGYRO Crossover Dual MAX LR

# smartGyro Crossover Dual MAX LR Electric Scooter Instruction Manual

Model: Crossover Dual MAX LR (SG27-423) | Brand: SMARTGYRO

## 1. INTRODUCTION

Welcome to the smartGyro Crossover Dual MAX LR electric scooter instruction manual. This document provides essential information for the safe and efficient operation, maintenance, and care of your new electric scooter. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

## 2. SETUP

### 2.1 Unboxing and Initial Inspection

Carefully remove all components from the packaging. Inspect the scooter for any signs of damage during transit. Ensure all parts listed in the packing list are present.

### 2.2 Assembly

Your smartGyro Crossover Dual MAX LR comes partially assembled. Follow these steps to complete the setup:

- Unfold the Scooter:** Release the folding mechanism. Ensure the stem is securely locked in the upright position. The new generation 2.0 folding system with double mast adjustment enhances safety and stability.
- Handlebar Adjustment:** Adjust the handlebar height to a comfortable position and secure it firmly.
- Check Connections:** Verify that all cables and connections are secure.

### 2.3 Initial Charging

Before first use, fully charge the scooter's battery. The smartGyro Crossover Dual MAX LR is equipped with an 18,000 mAh lithium battery.

- Connect the charger to the scooter's charging port.
- Plug the charger into a power outlet.
- The charging indicator on the charger will typically show red during charging and turn green when fully charged.
- Disconnect the charger once charging is complete.

The battery features triple security technology (OSP) and a Battery Management System (BMS) for safe and efficient charging and discharge, extending battery life.



Image: The smartGyro Crossover Dual MAX LR electric scooter in its upright, ready-to-ride position.

Video: A quick overview of the smartGyro Crossover Dual MAX LR electric scooter, highlighting its design and key features.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Power On/Off and NFC Activation

To power on your scooter, use the provided NFC card. Tap the NFC card on the designated area of the display to activate the scooter. Repeat the process to power off.



## Tarjeta NFC para encender y apagar



Image: A hand holding an NFC card near the scooter's display to power it on or off.

### 3.2 Display and Controls

The front display provides essential riding information:

- **Speed Indicator:** Shows current speed.
- **Odometer:** Tracks total distance traveled.
- **Trip Meter:** Shows distance for the current ride.
- **Battery Level:** Indicates remaining battery charge.
- **Riding Modes:** Displays the selected riding mode.

The handlebar features intuitive controls for lights, horn, and mode selection. A USB port is integrated into the display for charging mobile devices.



Image: Close-up of the handlebar controls, including buttons for lights, horn, and mode selection.

### 3.3 Riding Modes

The scooter offers 4 selectable driving modes:

- **Walk Mode:** For very low speeds, suitable for walking alongside the scooter.
- **Eco Mode:** Maximizes battery efficiency for longer range.
- **Comfort Mode:** Balanced performance for everyday commuting.
- **Sport Mode:** Full power for maximum speed and acceleration.

### 3.4 Dual Motor Activation

The smartGyro Crossover Dual MAX LR features two independent motors. You can activate or deactivate the front motor by pressing the 'M' button twice on the handlebar. This allows you to optimize battery usage or engage full power for challenging terrains and inclines.

### 3.5 SmartGyro App Connectivity

Connect your scooter to the smartGyro App for enhanced control and customization:

- **Remote Lock:** Lock or unlock your scooter remotely.
- **Light Customization:** Change the color of the RGB LED lights on the base.
- **Riding Data:** View real-time speed, distance, and battery information.
- **Regenerative Braking:** Adjust the intensity of regenerative braking (Weak, Medium, Strong).



Image: The scooter's base with customizable RGB LED lights, controlled via the app.

## 4. KEY FEATURES

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### 4.1 Dual Motors

The Crossover Dual MAX LR is powered by two independent 500W (48V) motors, delivering a combined nominal power of 1000W. When only one motor is active, it provides 700W of power. This dual-motor system ensures powerful acceleration and excellent climbing capability on various terrains.

### 4.2 Long-Range Battery

Equipped with an 18,000 mAh lithium battery, the scooter offers an impressive range of up to 70 km on a single charge. The advanced BMS and OSP technologies ensure battery safety and longevity.

### 4.3 Triple Suspension System

Experience a smooth ride with the triple suspension system, featuring an inverted long-travel front suspension and double rear suspension. This setup effectively absorbs shocks and irregularities from various surfaces, providing comfort and stability.

### 4.4 Triple Braking System

For maximum safety, the scooter incorporates a triple braking system:

- Front disc brake.
- Rear disc brake.
- Regenerative electric brake.

This combination ensures powerful and controlled stopping power.

## **4.5 Tubeless Dual Grip Tires**

The 10-inch pneumatic Tubeless Dual Grip tires are designed for durability and stability, allowing you to navigate various terrains with confidence. Their robust construction minimizes the risk of punctures.

## **4.6 Advanced Lighting System**

The scooter features a comprehensive lighting system for visibility and safety:

- High-brightness front LED headlight.
- RGB LED lights on the base, customizable via the app.
- Front and rear turn signals, selectable from the handlebar.
- Rear brake light.

## **4.7 IPX4 Water Resistance**

The smartGyro Crossover Dual MAX LR is rated IPX4, providing resistance to dust and splashes, making it suitable for various weather conditions.



Image: Side view of the smartGyro Crossover Dual MAX LR, showcasing its robust design and suspension.

## 5. MAINTENANCE

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### 5.1 Cleaning

Regular cleaning helps maintain the scooter's appearance and functionality. Use a damp cloth to wipe down the frame and deck. The anti-slip rubber deck is designed for easy cleaning. Avoid using high-pressure water jets directly on electronic components.

### 5.2 Battery Care

- Always use the original smartGyro charger.
- Avoid completely draining the battery before recharging.

- Store the scooter in a cool, dry place when not in use for extended periods, ensuring the battery is partially charged (around 50-70%).
- The battery's BMS ensures cell balancing during charging, preventing uneven wear.

### 5.3 General Checks

- Regularly check tire pressure for optimal performance and safety.
- Inspect brake pads and discs for wear and tear. Adjust or replace as needed.
- Ensure all screws and bolts are tightened, especially on the folding mechanism and handlebars.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with your smartGyro Crossover Dual MAX LR. For more complex problems, please contact customer support or an authorized service center.

- **Scooter not turning on:** Ensure the battery is charged and the NFC card is correctly used.
- **Reduced range:** Check tire pressure, riding mode (Eco mode extends range), and ensure the battery is fully charged. Extreme temperatures can also affect battery performance.
- **Brakes not effective:** Inspect brake pads and discs for wear. Adjust brake cables if necessary.
- **Unusual noises:** Check for loose components, especially around the wheels and suspension.

## 7. SPECIFICATIONS

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Feature	Specification
Brand	SMARTGYRO
Model Name	Crossover Dual MAX LR
Model Number	SG27-423
Motors	2 independent motors, 500W 48V each (1000W total nominal)
Battery	18,000 mAh Lithium-metal (1 included)
Autonomy	Up to 70 Km
Wheels	10" Tubeless Dual Grip pneumatic rubber
Suspension	Triple suspension (inverted front, double rear)
Braking System	Triple braking (front disc, rear disc, regenerative)
Lights	High-brightness front LED, RGB LEDs on base (APP selectable), front & rear turn signals, rear brake light
Water Resistance	IPX4
Dimensions (L x W x H)	112 x 64 x 128 cm
Weight	30 kg
Max Load	140 Kilograms
Frame Material	Aluminum

Special Feature	Speed Control
Certification	DGT Certified



Image: Diagram illustrating the dimensions of the smartGyro Crossover Dual MAX LR electric scooter.

## 8. SAFETY GUIDELINES

Always prioritize safety when operating your electric scooter. Adhere to local regulations and best practices:

- Wear a helmet and appropriate protective gear (knee pads, elbow pads).
- Familiarize yourself with local traffic laws and regulations for electric scooters.
- Perform a pre-ride check: ensure brakes are functional, tires are properly inflated, and all components are secure.
- Maintain a safe speed and distance from other vehicles and pedestrians.

- Avoid riding in adverse weather conditions (heavy rain, ice, snow).
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and potential hazards.

## 9. WARRANTY AND SUPPORT

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The smartGyro Crossover Dual MAX LR is DGT Certified, ensuring compliance with regulatory standards. SMARTGYRO provides extensive after-sales support, including a wide network of official workshops across Spain and readily available original spare parts.

- For warranty claims or technical assistance, please refer to the warranty card included with your product or visit the official SMARTGYRO website.
- Contact customer service for information on authorized repair centers and spare parts availability.

Video: A detailed review of the smartGyro Crossover Dual MAX LR,  
including insights into its design, performance, and DGT  
certification.