

Suplanet K96158

Suplanet 5-in-1 STEM Programmable Robotics Kit User Manual

Brand: Suplanet | Model: K96158

1. INTRODUCTION

This instruction manual provides detailed guidance for assembling, operating, and maintaining your Suplanet 5-in-1 STEM Programmable Robotics Kit. This kit is designed to foster creativity, hands-on learning, and basic programming skills through the construction of five different robotic models.

1.1 Safety Information

WARNING: Choking Hazard - Small Parts. Not for children under 3 years of age.

Always ensure adult supervision during assembly and play, especially with younger children. Keep small parts away from infants and toddlers. Read all instructions carefully before beginning assembly.

2. PACKAGE CONTENTS

Please verify that all components are present before starting assembly:

- 337 Building Block Parts
- Remote Control
- Eye Light Pieces (LEDs)
- USB Charging Cable
- Motor Unit
- Instruction Manual (this document)
- 1 x 9V Battery (included)



Figure 2.1: Overview of included parts and accessories.

3. ASSEMBLY INSTRUCTIONS

The Suplanet Robotics Kit allows for the construction of five distinct robot models. Each model has its own detailed, step-by-step instructions provided in the included manual. Follow these instructions carefully for successful assembly.

3.1 General Assembly Tips

- Organize your parts before starting.
- Refer to the visual diagrams in the printed instruction book for each step.
- Ensure all connections are secure to prevent parts from detaching during operation.
- The kit contains 337 pieces, allowing for creative assembly and disassembly.

3.2 Available Models

The kit supports the construction of the following five models:

- **Camera Man:** Dimensions (L x W x H): 5.35in x 5.35in x 7.48in (13.6cm x 13.6cm x 19cm), 305

pieces.

- **Shield Lion Chariot:** Dimensions (L x W x H): 6.6in x 8.26in x 4.72in (16.8cm x 21cm x 12cm), 297 pieces.
- **Armor Robot:** Dimensions (L x W x H): 8.26in x 6.9in x 5.7in (21cm x 17.6cm x 14.6cm), 296 pieces.
- **Agricultural Harvesters:** Dimensions (L x W x H): 15.35in x 9.68in x 4.96in (39cm x 24.6cm x 12.6cm), 293 pieces.
- **High-Speed Guns:** Dimensions (L x W x H): 5.27in x 7.87in x 4.9in (13.4cm x 20cm x 12.6cm), 269 pieces.



Figure 3.1: The five distinct robot models and their specifications.

4. OPERATING INSTRUCTIONS

The robot can be controlled using either the included remote control or a dedicated mobile application.

4.1 Remote Control Operation

The physical remote control allows for direct manipulation of the robot's movements. It features buttons for forward, backward, left, and right movements. Additionally, specific buttons control the LED light patterns and colors.

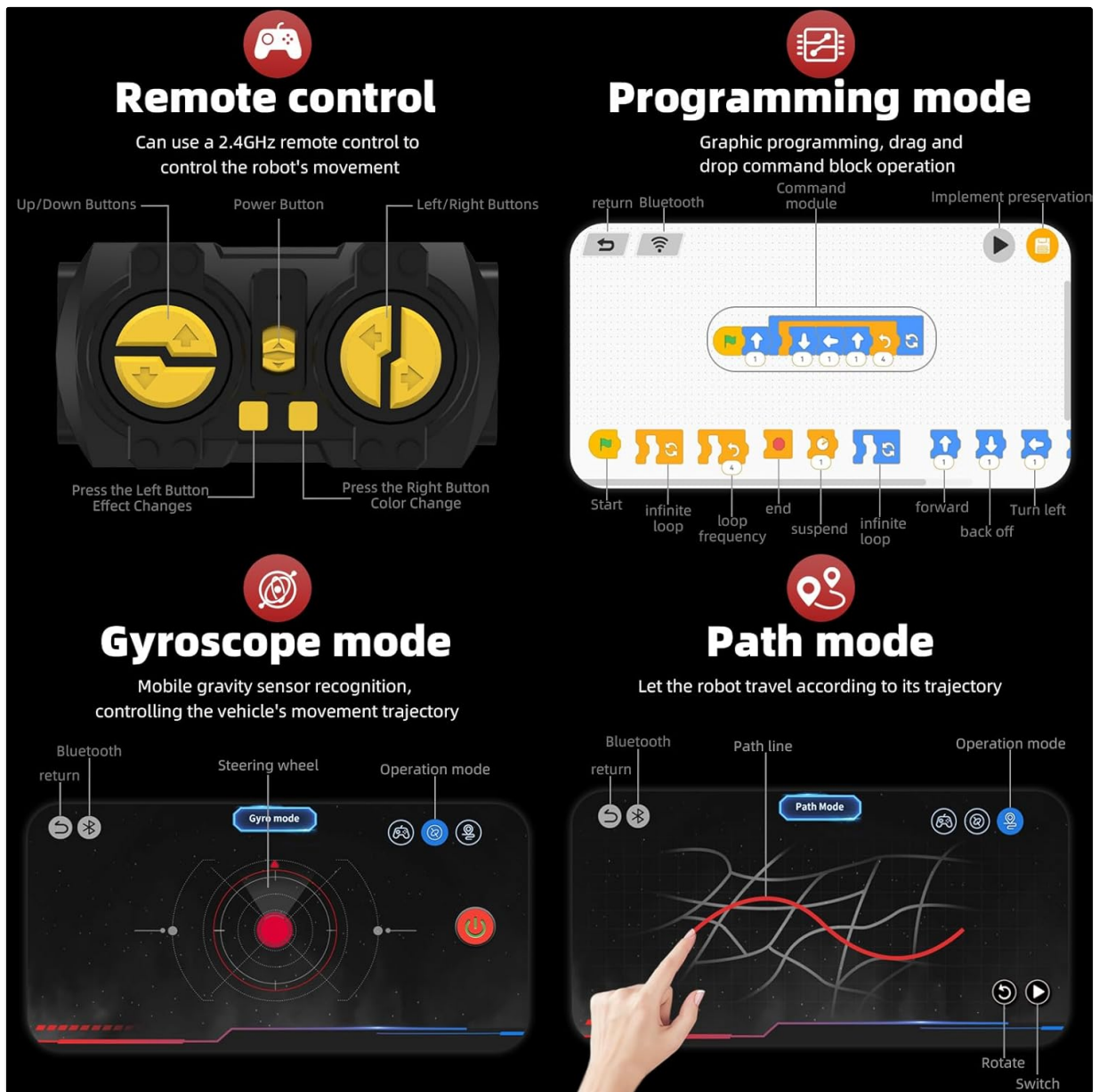


Figure 4.1: Remote control layout and functions.

4.2 App Control Operation

The mobile application provides advanced control options, including programming and path-following modes. Download the official Suplanet app from your device's app store.

4.2.1 Programming Mode

The app features a block-based programming interface, allowing users to drag and drop command blocks to create sequences of actions. This introduces basic coding concepts.



Figure 4.2: App-based programming interface.

4.2.2 Path Mode

In Path Mode, you can draw a route on your device's screen, and the robot will follow the specified trajectory.



Figure 4.3: App-based path mode for robot navigation.

4.2.3 Gyroscope Mode

Utilize your mobile device's gyroscope to control the robot's movements by tilting the device.



Figure 4.4: App-based gyroscope control interface.

4.3 LED Light Functions

The robot features eyes that emit three different colored lights. These lights can change color and pattern via remote or app control, adding a dynamic element to play.



Figure 4.5: Robot LED eyes and movement capabilities.

4.4 Official Product Video

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Video 4.1: This video demonstrates the remote control and app programming features of a Suplanet robot toy, showcasing various models and control methods.

5. MAINTENANCE

5.1 Battery Information

The robot requires 1 x 9V battery, which is included. Ensure the battery is correctly installed according to the polarity markings. Replace the battery when performance diminishes.

5.2 Cleaning

To clean the robot, gently wipe surfaces with a dry or slightly damp cloth. Avoid using harsh chemicals or excessive moisture, as this can damage electronic components.

5.3 Storage

When not in use, store the robot and its components in a cool, dry place, away from direct sunlight and extreme temperatures. Disassemble models if preferred for compact storage.

6. TROUBLESHOOTING

If you encounter issues with your Suplanet Robotics Kit, please refer to the following common solutions:

- **Robot not responding:** Check battery levels in both the robot and the remote control. Ensure the robot is powered on and properly connected via Bluetooth for app control.
- **App connectivity issues:** Restart the app and the robot. Ensure your device's Bluetooth is enabled and the robot is within range. Try reconnecting through the app's settings.
- **Incorrect turning directions:** Verify that the assembly of the drive tracks and motor connections matches the instructions precisely. Minor assembly errors can sometimes lead to unexpected movement patterns.
- **Parts not fitting:** Double-check the instruction diagrams to ensure you are using the correct parts for each step. Some pieces may appear similar but have subtle differences.
- **LED lights not working:** Ensure the eye light pieces are correctly installed and connected to the main motor unit. Check battery power.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	11.7 x 2.73 x 7.8 inches
Item Weight	1.93 pounds
Item Model Number	K96158
Manufacturer Recommended Age	8 - 11 years
Batteries	1 x 9V batteries required (included)
Number of Pieces	337
Control Methods	Remote Control, Mobile App (Programming, Path, Gyroscope Modes)
Special Features	5-in-1 Build, Three-Color Changing LED Lights, Adjustable Joints

8. WARRANTY AND SUPPORT

For any questions, concerns, or assistance with your Suplanet 5-in-1 STEM Programmable Robotics Kit, please contact Suplanet customer support. Refer to the packaging or the official Suplanet website for contact information.

