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› Robotics Smartcore 6 Instruction Manual

OWI Inc OWI-41802

Robotics Smartcore 6: 6 Smart Vehicles in 1

Brand: OWI Inc | Model: OWI-41802

INTRODUCTION

The OWI Inc. Robotics Smartcore 6 kit offers an engaging educational STEM experience, allowing users to build and control six distinct smart vehicles. At its heart is the OWI SmartCore technology, a patented digital brain that adapts to control each unique vehicle configuration. This kit is designed to foster creativity, problem-solving skills, and an understanding of robotics and engineering principles.



Figure 1: The six versatile vehicles that can be constructed with the Smartcore 6 kit.

WHAT'S IN THE BOX

Before beginning assembly, please verify that all components are present:

- Plastic Parts
- Bags of Mechanical Parts
- Instruction Manual (this document)



Figure 2: The SmartCore module is the central brain for all six vehicle types.

SETUP

The OWI SmartCore module contains a built-in quick-charging LiPo battery. Ensure the SmartCore is fully charged before first use.

1. Connect the provided USB charging cable to the SmartCore module.
2. Plug the other end of the USB cable into a compatible USB power source (e.g., computer USB port, USB wall adapter).
3. The indicator light on the SmartCore will show charging status (refer to the specific light behavior in the quick start guide for details).
4. Once fully charged, disconnect the cable.



Figure 3: The SmartCore module, the central processing unit for all vehicles.

OPERATING INSTRUCTIONS

The OWI SmartCore automatically pairs with the remote control. Follow the assembly instructions for each specific vehicle before attempting operation.

Tank

The Tank features steep climbing ability and 2-channel control. Assemble the tank chassis and tracks, then integrate the SmartCore module. Ensure tracks are properly aligned for optimal movement.



Figure 4: The Tank, designed for robust land exploration.

Gyrobot

The Gyrobot utilizes active balancing technology to remain vertical. It offers 2-channel control. Carefully assemble the Gyrobot's body and wheels, ensuring the SmartCore is securely placed for proper balance.



Figure 5: The Gyrobot, capable of self-balancing movement.

Trike

The Trike is designed for high-speed drift while maintaining control, offering 2-channel control. Assemble the trike frame and attach the wheels, then integrate the SmartCore. Practice steering to master high-speed maneuvers.



Figure 6: The Trike, built for agile and fast ground movement.

Drone

The Drone features an auto-hover function and 4-channel control for stable flight. Attach the propellers and protective guards to the SmartCore. Ensure clear space for flight and operate in open areas.



Figure 7: The Drone, capable of stable flight with auto-hover.

Hovercraft

The Hovercraft utilizes air cushion hovering for smooth movement over flat surfaces, with 4-channel control. Assemble the hovercraft base and attach the SmartCore with its propellers. Ensure the skirt is properly sealed for effective hovering.

(Refer to Figure 7 for visual reference of the Hovercraft.)

Turboprop

The Turboprop is designed for flight in open areas and features a durable EPP structure with 2-channel control. Attach the SmartCore and propellers to the aircraft body. Always operate in clear, unobstructed spaces.

(No specific image for Turboprop in A+ content, refer to Figure 1 for visual reference.)

Official Product Video

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Video: An official demonstration of the OWI Inc. Robotics Smartcore 6, showcasing the assembly and operation of its various smart vehicles.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the vehicle components. Avoid water or harsh chemicals.
- **Storage:** Store the kit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Fully charge the SmartCore before long-term storage. Recharge periodically if not used for extended periods to maintain battery health.
- **Component Inspection:** Regularly inspect all parts for wear or damage. Replace broken components as needed.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Vehicle not responding to remote.	Low battery in SmartCore or remote control. Incorrect pairing.	Charge SmartCore. Replace remote control batteries. Re-pair SmartCore with remote (refer to quick start guide for pairing steps).
Drone/Turboprop unstable during flight.	Damaged propellers. Obstructions.	Check and replace any bent or broken propellers. Ensure flight area is clear of obstacles.
Tank/Trike not moving smoothly.	Obstruction in moving parts. Incorrect assembly.	Check for debris in tracks/wheels. Re-check assembly steps for correct part placement.

SPECIFICATIONS

Brand	OWI Inc
Model Name	SmartCore 6
Item Model Number	OWI-41802
Age Range (Recommended)	8 - 13 years
Material	Plastic
Item Weight	2.12 pounds
Product Dimensions	8.5 x 1.5 x 8.5 inches
Connectivity Technology	Proprietary
Control Type	Remote Control
Battery Cell Composition	Lithium Polymer (rechargeable, built-in to SmartCore)

WARRANTY & SUPPORT

For warranty information and technical support, please visit the official OWI Inc. store or contact their customer service directly. Keep your purchase receipt for any warranty claims.

[Visit the OWI Inc Store on Amazon](#)



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