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WhalesBot C3 Pro

WhalesBot C3 Pro Robot Kit User Manual

Model: C3 Pro

Brand: WhalesBot

1. INTRODUCTION

The WhalesBot C3 Pro is an advanced 12-in-1 remote control and coding robot kit designed to introduce young learners aged 4 and up to the exciting world of STEM. This educational toy combines block building with smart panel and card programming, fostering creativity, problem-solving skills, and foundational coding logic through interactive play. Build various robot models and bring them to life with lights, sounds, and motion using intuitive magnetic coding cards and remote control.



Figure 1: Overview of the WhalesBot C3 Pro 12-in-1 Robot Kit components and various robot models.

2. IMPORTANT SAFETY INFORMATION

WARNING: CHOKING HAZARD - Small parts. Not for children under 3 years.

- Always supervise children during play.
- Ensure all parts are securely connected to prevent detachment.
- Keep small parts away from young children to avoid choking.
- Do not attempt to modify or disassemble electronic components.
- Use only the provided charging cable for the controller.

3. PACKAGE CONTENTS

Your WhalesBot C3 Pro kit includes all the necessary components to build and program your robots. Please verify all items are present upon unboxing.

- 1 x BC 301 Controller
- 1 x Motor
- 38 x Coding Cards
- 1 x Smart Panel
- 1 x Type-C Cable
- 52 x Structural Parts (various bricks, tiles, beams, axles, gears, wheels)
- 4 x Storybooks
- 1 x Activity Map
- 1 x Quick-Start Guide

What's in the Box

Extra-Large, Safe ABS Blocks for Creative Play

CPC **FC**



L:16 in W:12 in H:5 in



L:9.45in W:6.97 in



L:2in W:1.7 in H:1in



L:2.5in W:2.5in



L:0.8in W:0.8 in H:0.4in



L:8 in W:4 in



L:9 in W:6 in H:6 in

Figure 2: Detailed view of the WhalesBot C3 Pro kit contents, including the smart panel, coding cards, electronic components, and structural parts.

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Video 1: An unboxing and first look at the WhalesBot C3 Pro Coding Robot Kit, showing all included components.

4. SETUP AND ASSEMBLY

Follow these steps to set up your WhalesBot C3 Pro and begin building your first robot.

4.1. Charging the Controller

Before first use, ensure the BC 301 Controller is fully charged. Connect the provided Type-C cable to the controller and a suitable USB power source. The indicator light will show charging status.

4.2. Pairing the Smart Panel and Controller

1. Power on both the Smart Panel and the BC 301 Controller.
2. Place them close to each other. They will automatically connect via Bluetooth. A successful connection is indicated by a steady blue light on the Smart Panel.

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Video 2: Demonstrates how to pair the Smart Panel with the robot controller for remote control functionality.

4.3. Building Your Robot

Refer to the included storybooks and quick-start guide for step-by-step building instructions for the 12 guided models. Each model utilizes the modular structural parts and electronic components.

Kickstart Kids Coding

Easy Start with Reading, Building and Coding



Figure 3: Illustration showing the process of reading the story, assembling the robot step-by-step, and placing coding blocks.

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Video 3: A step-by-step guide on how to build a WhalesBot C3 Pro Coding Robot.

5. OPERATING YOUR ROBOT

The WhalesBot C3 Pro offers two primary modes of operation: Coding Mode and Remote Control Mode.

5.1. Coding Mode with Magnetic Cards

Use the magnetic coding cards to program your robot's actions. Each card represents a specific command (e.g., move forward, turn left, play sound). Place the cards in sequence on the Smart Panel to create a program.

1. Select the desired coding cards for your robot's actions.
2. Place the cards onto the designated slots on the Smart Panel in the desired order. The panel's indicator lights will confirm correct placement.
3. Press the "Run Program" (Play) button on the Smart Panel to execute the sequence.
4. The Smart Panel features error detection, indicating if a coding sequence is incorrect.

Code for Fun!

Control Your Robot with the Smart Panel

Move Forward / Backward



Turn Left / Right



Play Sound



Light Up



Figure 4: Demonstrates how to control the robot using the Smart Panel, including movements, sounds, and lights.

Learn through Play

Build & Code Your Robot Car and Explore the Forest



Set the motor speed to 4

Move forward for 2 seconds

Play duck sound

Stop the motor



Figure 5: An example of a coding sequence using magnetic cards to set motor speed, move forward, play a sound, and stop the motor.

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Video 4: Shows how magnetic coding cards automate actions for the WhalesBot C3 Pro.

5.2. Remote Control Mode

For direct control, use the directional buttons on the Smart Panel to manually steer your robot.

- Use the arrow buttons (Up, Down, Left, Right) to control the robot's movement.

- The speed adjustment buttons allow for varying movement speeds.

6. CREATIVE PLAY AND EXPANSION

Beyond the 12 guided models, the modular design of the WhalesBot C3 Pro encourages open-ended building and creative exploration. Experiment with different structural parts and electronic components to design your own unique robots.

Spark Kids' Creativity

Build with Guides, Create More with Imagination



Figure 6: Various robot designs that can be built with the WhalesBot C3 Pro kit, showcasing its versatility and encouraging creative building.

The WhalesBot C3 Pro system is designed for expandability. Additional sensors (such as ultrasonic and line-tracking) and new coding cards can be purchased separately to unlock advanced programming possibilities and further enhance your robot's capabilities.

7. MAINTENANCE

- **Cleaning:** Wipe down the robot parts and Smart Panel with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store all components in the provided sectioned storage box to keep them organized and protected from dust and damage.
- **Battery Care:** Recharge the controller regularly to maintain battery health. Avoid fully depleting the battery for extended periods.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Robot does not respond.	Low battery on controller or panel. Not paired.	Charge the controller. Ensure both devices are powered on and paired successfully.
Coding sequence not working.	Incorrect card placement. Cards not fully seated.	Check Smart Panel indicator lights for errors. Re-seat cards firmly. Review the sequence in the manual.
Robot moves erratically.	Loose connections in robot build. Obstruction.	Verify all structural parts are securely connected. Clear any obstacles from the robot's path.
Smart Panel not turning on.	No power.	Ensure the panel's power button is pressed. Check if batteries are needed (if applicable, though product description implies rechargeable controller).

9. PRODUCT SPECIFICATIONS

Feature	Detail
Product Dimensions	16.14 x 11.81 x 5.13 inches
Item Weight	6.89 pounds
Country of Origin	China
Recommended Age	3 years and up (Manufacturer recommended age)
Batteries	1 9V batteries required (included for controller, Smart Panel uses magnetic contact for power from cards/robot)
Models Supported	12 guided models, expandable

Feature	Detail
Programming Method	Magnetic Coding Cards, Smart Panel

10. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact WhalesBot customer service through the official WhalesBot website or your point of purchase. Keep your purchase receipt as proof of purchase. Visit the WhalesBot Store: [WhalesBot Official Store](#)

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Related Documents - C3 Pro

	<p>WhalesBot D3 Pro STEM Robotic Kit: Assembly and Programming Guide</p> <p>Explore the world of robotics with the WhalesBot D3 Pro STEM kit. This guide provides detailed instructions for building four unique robots – the Exploding Drummer, Mill Robot, Dynamic Bicycle, and Weightlifter – along with programming activities using the WeCode Pad.</p>
	<p>WhalesBot B3 Pro User Manual: 24-in-1 STEM Robotic Kit for Kids</p> <p>Comprehensive user manual for the WhalesBot B3 Pro, a 24-in-1 STEM robotic kit. This guide covers controller and coding pen details, pairing, indicator lights, coding cards, sample project assembly and programming, charging methods, safety precautions, and technical specifications.</p>
	<p>WhalesBot Controller Pro User Guide: Build and Program Your Robot</p> <p>Comprehensive user guide for the WhalesBot Controller Pro, detailing setup, components, sensors, actuators, logical programming, remote control, and sample projects for the WhalesBot A7 robot kit. Learn to assemble and control your robot with step-by-step instructions and explanations.</p>
	<p>WhalesBot D3 Pro User Manual</p> <p>User manual for the WhalesBot D3 Pro, a 12-in-1 STEM robotic kit for kids. Learn about the controller, sensors, actuators, programming, use cases, and precautions.</p>
	<p>WhalesBot E7 Pro User Manual - Coding Robot Guide</p> <p>Comprehensive user manual for the WhalesBot E7 Pro coding robot, detailing its controller, sensors, actuators, programming software (mobile and PC), sample projects, and safety guidelines for STEM education.</p>
	<p>WhalesBot A3 Coding Robot User Manual</p> <p>User manual for the WhalesBot A3 Coding Robot, detailing its components, functions, basic operations, charging instructions, and sample projects. Includes safety warnings and maintenance guidelines.</p>

