Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /
› **Makeblock** /
› **Makeblock mBot2 Coding Robot for Kids, AI Learning Support Scratch & Python Programming, Robotics Kit for Kids Ages 8-12 and up, Building STEM Robot Toys Gifts for Boys Girls**

Makeblock P1010132

Makeblock mBot2 Coding Robot Instruction Manual

Brand: Makeblock | Model: P1010132

PRODUCT OVERVIEW

The Makeblock mBot2 is an advanced coding robot designed to introduce kids aged 8-12 and up to AI learning, Scratch, and Python programming. This STEM robotics kit provides a hands-on experience for building and coding, fostering creativity and problem-solving skills.

Key Features:

- Learn AI through Play: Interact with mBot2 for weather updates, music, movement, and expressive reactions. Fully programmable for endless fun AI games.
- Easy to Use: Simple assembly with step-by-step guides. Features 8+ modes (Drive, Draw and Run, Musician, Voice Control, Code, Build, WIFI) controllable via APP. Offers up to 5 hours of playtime on a single charge.
- Coding Learning Path: Includes 4 coding project cards and offers 24+ cases and 8+ courses to master Scratch and Python programming, robotics, computer science, game development, and data science. Supported by lifelong free programming software.
- The Best in Its Class: Built on Makeblock's mBuild platform with 10+ advanced sensors (line-following, obstacle avoidance, color identification) and expandable with 30+ modules. Supports Internet of Things (IoT) learning and multi-robot tasks via WIFI.
- Great Gift for Kids: Quick 30-minute assembly helps kids learn about robotics components and mechanical design. Ideal for graduations, birthdays, Christmas, Children's Day, or family activities.

PACKAGE CONTENTS

- Makeblock mBot2 coding robot pack x1
- Standard coding project cards x4
- USB cable x1
- Screwdriver x1
- Line-following track map x1

SETUP

1. Assembly

The mBot2 robot kit is designed for easy assembly. Follow the step-by-step guide provided in the box to construct your robot. The simple structure allows for assembly in just 30 minutes.

Image: All components of the mBot2 robot laid out on a surface, ready for assembly.

Image: Two children collaboratively assembling the mBot2 robot, demonstrating ease of construction.

2. Charging

Ensure the mBot2 is fully charged before first use. Connect the robot to a power source using the provided USB cable. A full charge provides up to 5 hours of playtime.

3. App & Software Installation

Download the Makeblock App for mobile devices or mBlock software for PC/Mac. These platforms allow for easy control and programming of your mBot2.

Line Following

Obstacle Avoidance

Precise Movement

Voice Interaction

come here!

Yes!
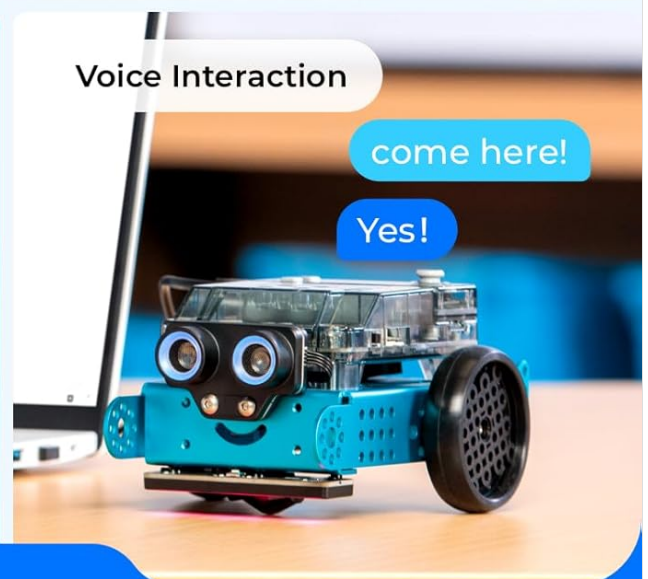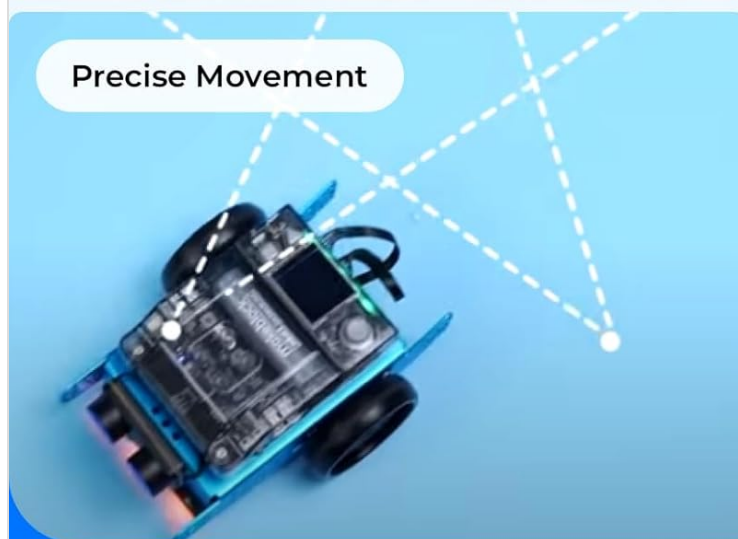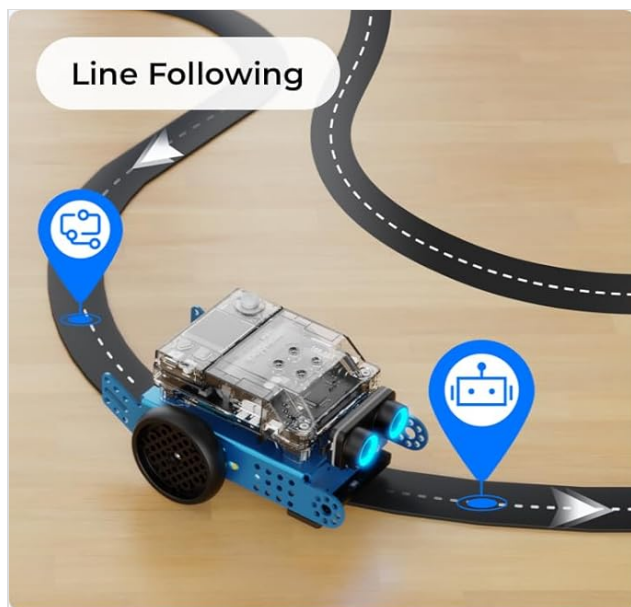
Step into the Robotics Adventure

Image: A child interacting with the mBlock app on a tablet, controlling the mBot2 robot.

Image: A child using a laptop with mBlock software to program the mBot2 robot.

Your browser does not support the video tag.

Video: An instructional video from Makeblock titled 'Start Your First Coding Project with us!', demonstrating initial steps and coding with the mBot2 robot.

Your browser does not support the video tag.

Video: An official Makeblock video titled 'Code Your Own Smart Robot Car', showcasing the mBot2's capabilities and coding interface.

OPERATING YOUR MBOT2

1. Control Modes

The mBot2 offers various control modes including Drive, Draw and Run, Musician, Voice Control, and Code. Control can be established via Bluetooth, USB, or Wi-Fi. The robot features 10+ advanced sensors for line-following, obstacle avoidance, and color identification.
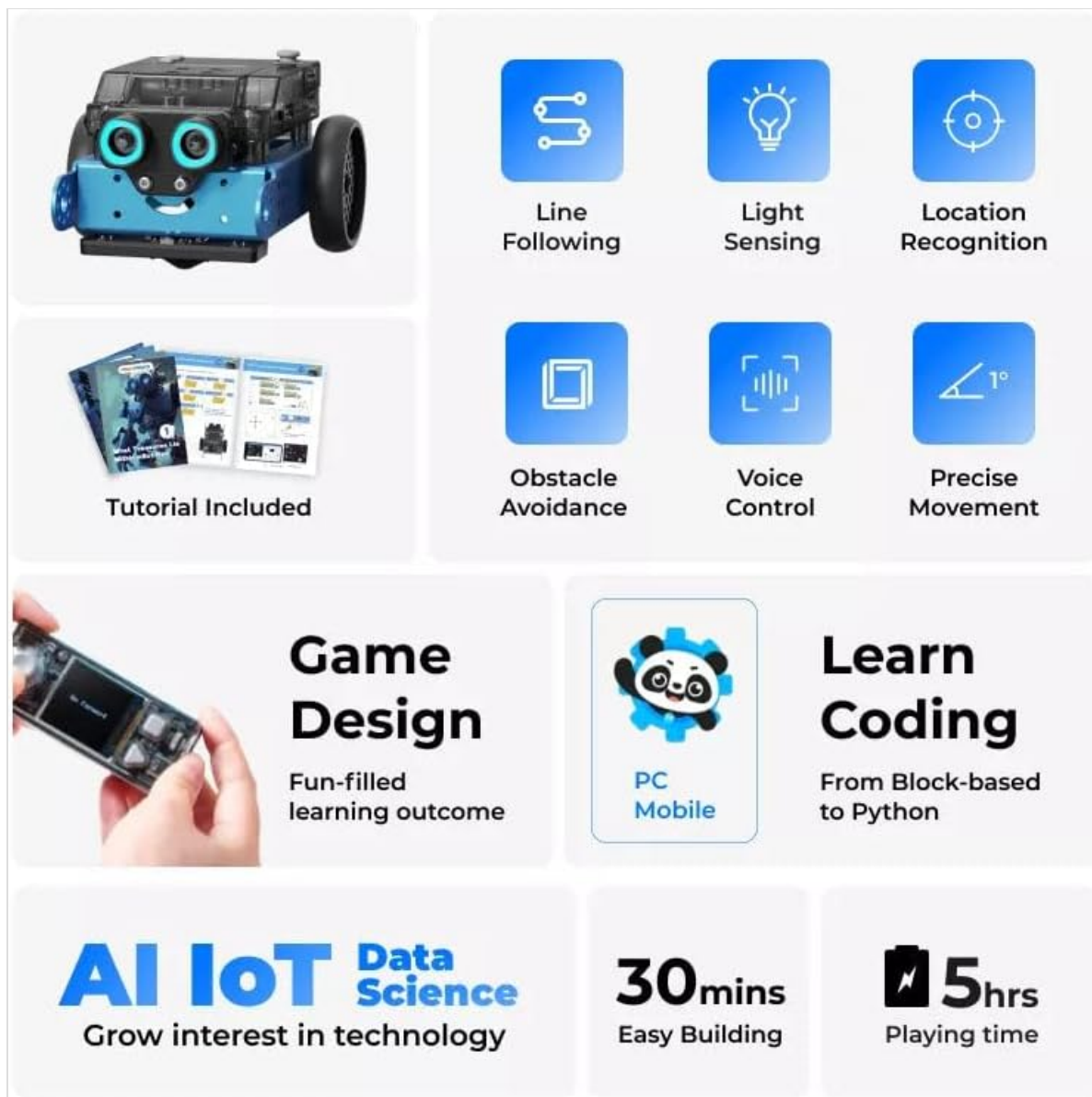
Image: A visual representation of the mBot2's core functionalities including line following, light sensing, and voice control.

2. Coding with Scratch & Python

Utilize the mBlock software to program your mBot2. It supports both block-based Scratch programming for beginners and Python for more advanced users. Explore 24+ cases and 8+ courses to master programming concepts, robotics, computer science, game development, and data science.
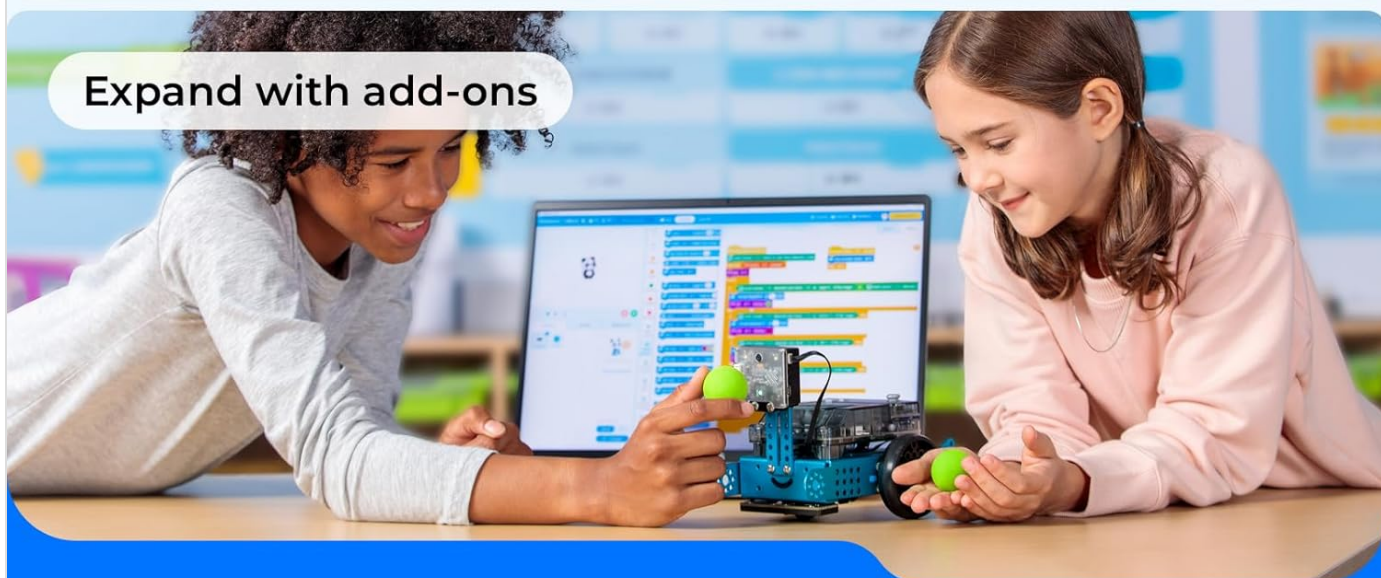
Block-based Coding

Step-by-step Guide

Kids-friendly Manual

Game-based Coding Projects

Easier, Faster, and More Fun to Code

Image: The mBot2 robot demonstrating various AI learning capabilities, such as providing weather forecasts and responding to touch.

Image: The mBot2 robot shown alongside examples of both Scratch block-based code and Python code, highlighting its versatile programming support.

Your browser does not support the video tag.

Video: An official Makeblock video titled 'mBot2 Challenge: No Touch the Line Game', demonstrating a coding challenge for the mBot2 robot.

Your browser does not support the video tag.

Video: An official Makeblock video titled 'mBot Neo - STEAM coding robot for education & entertainment', showcasing the robot's educational and entertainment aspects.

MAINTENANCE

Keep the robot clean and free from dust. Avoid exposing it to water or extreme temperatures. Do not overcharge the battery to ensure longevity and safe operation.

TROUBLESHOOTING

If the robot does not respond, ensure it is fully charged and properly connected to the app/software. Verify all cables are securely attached. Refer to the official user manual for detailed troubleshooting steps.

SPECIFICATIONS

Feature	Detail
Product Dimensions	5.91 x 3.54 x 7.09 inches
Item Weight	2.53 pounds
Item Model Number	P1010132
Manufacturer Recommended Age	8 years and up
Batteries	1 AAA batteries required (included)
Manufacturer	Makeblock

WARRANTY INFORMATION

Please refer to the official Makeblock website or the included user manual for detailed warranty information and terms and conditions.

SUPPORT & RESOURCES

- Installation Manual (PDF)
- User Manual (PDF)
- Makeblock Official Store

For further assistance, please visit the Makeblock official store or refer to the provided PDF manuals.

Related Documents - P1010132

mBot Ranger Tutorial & Cases: Programming and Robotics Guide
Explore the Makeblock mBot Ranger with this comprehensive tutorial. Learn to program its features, from basic LED and buzzer controls to advanced robot movements and sensor interactions, using mBlock software with Scratch and Arduino C.

[Makeblock CyberPi (MCP-K01-01): Instructions for Use and Programming Guide](#)
Comprehensive guide to using the Makeblock CyberPi (MCP-K01-01) educational robot, covering setup, interface navigation, programming with Scratch and Python, and troubleshooting.

[Makeblock mBot Interactive Light & Sound Add-on Pack: Building Guide and Project Ideas](#)
Comprehensive guide for the Makeblock mBot Interactive Light & Sound Add-on Pack. Learn how to build three distinct robots: Light Chasing Robot, Intelligent Desk Light, and Scorpion Robot. Includes parts list, assembly instructions, technical specifications for sensors, and programming suggestions with mBlock.

[Makeblock mBot Quick Guide: Learn Robotics and Programming](#)
A comprehensive guide to the Makeblock mBot, an educational robot kit for beginners to learn graphical programming, electronics, and robotics. Includes assembly, wiring, and programming instructions.

[Makeblock mBot: Quick Start Guide for Beginners in Robotics and Programming](#)
Learn about the Makeblock mBot, an educational robot kit for kids. This guide covers assembly, wiring, remote control, graphical programming with mBlock, and Arduino programming for beginners in STEM.

[Makeblock Codey Rocky Basic Coding Courses Teacher's Book](#)
A comprehensive teacher's guide for Makeblock's Codey Rocky, covering basic coding concepts through interactive lessons. This book details lesson plans for understanding programs, using mBlock 5, creating animations, identifying bugs, and designing simple games with Codey Rocky.