

SONOMO®

**BG1528
Programmable
Robot**



SONOMO BG1528 Programmable Robot User Manual

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SONOMO BG1528 Programmable Robot



Launch Date: 2023

Price: \$39.99

Introduction

The SONOMO-bG1528 Programmable Robot Sensing is a play-based toy that is meant to help kids be more creative and learn through play. It has gesture detection built in, so people can move the robot around by making hand gestures. This makes it a fun way for kids to learn. The robot also has a 2.4GHz remote control system that lets kids handle it from up to 19.68 feet away. Kids can use brain programming to make the SONOMO-bG1528 do things like turn or slide forward. This helps them learn how to solve problems and program. It can respond to its surroundings thanks to the different sensors it has, giving you a hands-on experience with robots. The toy has fun features like dancing, singing, and sharing stories, which makes it a useful tool for both fun and learning. It is made with a strong, easy-to-hold body that will last for a long time. The SONOMO-bG1528 has a Li-Po battery that can be charged and plays music for up to an hour on a single charge. This robot toy makes a great birthday or holiday present, or it can be used to help kids learn. Because it's easy to use and has interactive features, it's both fun and informative.

Specifications

- **Dimensions:** X cm x Y cm x Z cm
- **Weight:** X kg
- **Processor:** ARM Cortex-A9, Intel Atom, etc.
- **Sensor Types:**
 - Ultrasonic sensors

- Infrared sensors
 - Gyroscope/Accelerometer
 - Camera (optional)
- **Power Supply:** Rechargeable Lithium-ion battery (voltage: X V)
- **Operating System:** Linux-based, ROS (Robot Operating System)
- **Connectivity:**
 - Wi-Fi / Bluetooth
 - USB ports / I2C, SPI for sensor integration
- **Operating Temperature:** X°C to Y°C
- **Battery Life:** X hours of continuous operation
- **Motor Type:** DC motors with encoders
- **Max Load Capacity:** X kg
- **Actuation:** Servo motors for precise movements

Package Includes

- SONOMO-bG1528 Programmable Robot Unit
- Power adapter & charging cable
- USB communication cable
- Sensor modules (e.g., ultrasonic, IR sensors)
- Quick Start Guide
- Software installation CD/Download link
- Assembly tools (if required)
- User manual

Features

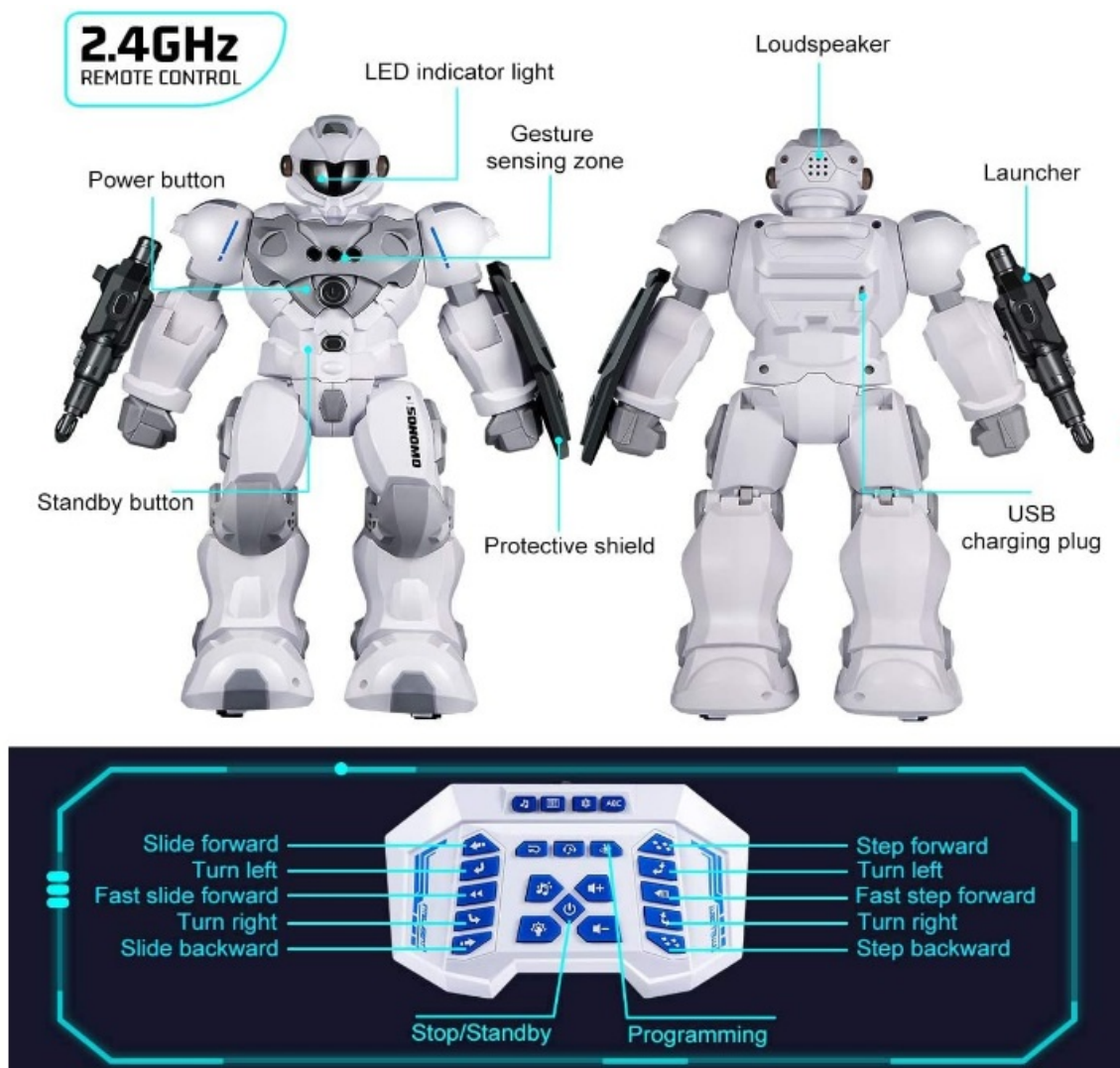


1. Controlling with Gesture

Interactive Gesture Recognition: The robot reacts to your hand movements, so you can use gestures to control its movements, like moving forward or backward or turning left or right. This makes it fun for kids because they can use their hands to control the robot's movements.

2. Remote control with 2.4GHz

Long-Range Control: You can move up to 19.68 feet away and still control the robot. There is a receiver on the robot's chest that the remote controls talk to. For the best reaction, users should point the remote at the robot. Kids can control the robot from a distance with this function, which encourages them to play outside.



3. Programming the mind

Actions That Can Be Changed: The robot toy can be set to do a series of actions, such as turning left, right, sliding forward, and stepping backward, using the remote. Kids can use their imaginations and ideas by making their own action scenes and learning the basics of programming with this feature.

GESTURE SENSING

Easily controlled by hand gestures sensing



4. Play Features That Are Fun

Fun in Many Ways: The robot does more than just move around; it sings, dances, and tells stories. These parts make the toy more interactive, so kids can do more with it than just run a robot. The toy becomes a friend for kids and has many fun and useful features.

5. Easy to charge

Easy USB Charging: The robot has a 3.7V 350mAh Li-Po battery that can be charged and gives you up to an hour of playtime after just 60 minutes of charging. Using the Type-A USB cord that comes with it makes charging easy. This makes sure that the robot has a little break and is always ready to play.

6. Design That Lasts and Is Safe

Single-Piece Molded Design: The robot is made of a single-piece molded design that makes it strong and easy to control. That strong build makes it great for rough play, so kids can enjoy it without thinking about damage.

7. The Size of Robots

- Small but Strong: 4.33-inch width at the feet
- Widest point: 10.2 inches
- 12.2 inches tall The robot is the right size for kids to play with and move around with because it is this size.

8. Many uses and the chance to give as a gift

Ideal Gift: This robot toy is a great present for kids, whether it's for a birthday, Christmas, or a surprise. It has fun features that kids will love exploring and enjoying.

9. Use in education

Getting Smarter Through Play: Kids can learn the basics of programming and problem-solving while having fun

with the robot. When kids play together, they improve their motor skills, cognitive skills, and imagination. By letting kids share and work together, the toy helps them develop their social skills, logical thought, and fine motor skills.

Usage

- **Setup:** Connect the robot to a power source and ensure all sensors are properly installed.
- **Programming:** Use the provided software tools (e.g., Arduino IDE, ROS) to write control code.
- **Control:** Send commands through the robot's wireless interface, or program it to follow pre-defined behaviors autonomously.
- **Operation:** Place the robot in an environment and monitor its interaction through live sensor data.

Care and Maintenance

- **Battery Care:** Charge the robot after each use to maintain battery health, and avoid overcharging to prolong battery lifespan.
- **Cleaning:** Wipe the robot and remote control with a soft cloth to remove dust and dirt.
- **Storage:** Store the robot in a dry place to avoid moisture damage. Keep it away from direct sunlight and heat sources.
- **Sensor Maintenance:** Clean the sensors periodically with a dry cloth to ensure optimal performance.

Troubleshooting

Robot Not Responding to Remote:

- Ensure the remote is within range (19.68 feet).
- Check the robot's battery charge; recharge if needed.
- Make sure the remote is pointed directly at the robot's chest receiver.

Gesture Control Not Working Properly:

- Ensure the robot is within range of your gestures and that there are no obstructions.
- Reset the robot by turning it off and on again to recalibrate.

Robot Won't Charge:

- Verify that the USB cable is correctly connected to both the robot and the charging port.
- Confirm the power source is functioning (e.g., try a different USB port or adapter).

Robot Not Moving:

- Check for mechanical obstructions (e.g., dirt, debris) around the wheels and motors.
- Ensure the battery is charged and properly connected.

Pros and Cons

Pros	Cons
Engaging interactive features	May require adult assistance for setup
Dual control modes (remote & gesture)	Short battery life during extensive play
Educational content included	Limited range of motion on uneven surfaces

Warranty

The SONOMO BG1528 comes with a standard warranty covering manufacturing defects for a period of one year from the date of purchase. Please retain your receipt for warranty claims.

FAQs

What is the SONOMO-bG1528 Programmable Robot Sensing?

The SONOMO-bG1528 is an interactive robot toy that offers features like gesture control, remote control operation, and intellectual programming, designed to engage kids in robotics and programming.

How can the SONOMO-bG1528 be controlled?

The SONOMO-bG1528 can be controlled via hand gestures or a 2.4GHz remote control, which allows kids to control the robot from up to 19.68 feet away.

What programming features does the SONOMO-bG1528 have?

The SONOMO-bG1528 allows children to program the robot to perform custom action sequences, helping them learn basic programming concepts.

What programming features does the SONOMO-bG1528 have?

The SONOMO-bG1528 uses a 3.7V 350mAh Li-Po rechargeable battery, which provides up to one hour of playtime after about 60 minutes of charging.

What is the maximum range of the SONOMO-bG1528's remote control?

The remote control for the SONOMO-bG1528 has a range of up to 19.68 feet, allowing remote operation from a considerable distance.

How long does it take to charge the SONOMO-bG1528?

Charging the SONOMO-bG1528 typically takes around 60 minutes, after which it can provide up to one hour of continuous playtime.

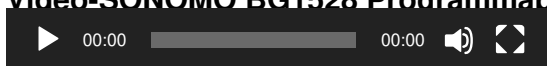
What are the dimensions of the SONOMO-bG1528 robot?

The SONOMO-bG1528 has a height of 12.2 inches, a width of 10.2 inches, and a foot width of 4.33 inches, making it easy for children to handle.

What functions does the SONOMO-bG1528 have beyond movement?

The SONOMO-bG1528 also sings, dances, and tells stories, adding entertainment value to the interactive experience.

Video-SONOMO BG1528 Programmable Robot



[References.plus/wp-content/uploads/2024/12/SONOMO-BG1528-Programmable-Robot-1.mp4](https://www.references.plus/wp-content/uploads/2024/12/SONOMO-BG1528-Programmable-Robot-1.mp4)
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