

Sphero Sphero Bolt

Sphero BOLT Coding Robot Ball Instruction Manual

Model: Sphero Bolt

Brand: Sphero

1. SETUP AND FIRST USE

This section guides you through the initial setup of your Sphero BOLT robot ball, from unboxing to connecting it with the Sphero Edu app.

1.1 Package Contents

Verify that all items are present in your Sphero BOLT package:

- 1 Sphero BOLT Robot Ball
- 1 Inductive Charging Base
- 1 USB Charging Cable
- 1 Protractor with Heading, Directions & Clock
- 1 Sticker Sheet
- 1 Quick Start Guide



Components of the Sphero BOLT package: the Sphero BOLT robot, its inductive charging base, and a USB charging cable.

1.2 Charging the Sphero BOLT

Before first use, fully charge your Sphero BOLT. The robot uses inductive charging, providing over 4 hours of play on a full charge.

1. Connect the USB charging cable to the inductive charging base and a power source (e.g., computer USB port or USB wall adapter).
2. Place the Sphero BOLT onto the charging base. The BOLT's LED matrix will indicate charging status.
3. A full charge typically takes approximately 6 hours.

1.3 Downloading the Sphero Edu App

The Sphero BOLT is controlled and programmed via the free Sphero Edu app, available on iOS, Android, Chrome OS, macOS, and Windows.

- Search for "Sphero Edu" in your device's app store or visit the official Sphero website for download links.
- Install the app on your preferred device.

1.4 Connecting to the Sphero BOLT

The Sphero BOLT connects wirelessly via Bluetooth SMART.

1. Ensure your device's Bluetooth is enabled.
2. Open the Sphero Edu app.
3. Wake up your BOLT by gently shaking it or placing it on its charging base. The BOLT's LED matrix will light up.
4. Within the app, follow the on-screen prompts to connect to your Sphero BOLT. You may need to select your BOLT from a list of available devices.

1.5 Safety Information

WARNING: This toy produces flashes that may trigger epilepsy in sensitized individuals. Exercise caution and supervise use, especially with individuals sensitive to flashing lights.

2. OPERATING YOUR SPHERO BOLT

The Sphero BOLT offers multiple ways to interact, from simple driving to advanced programming.

2.1 Driving the BOLT

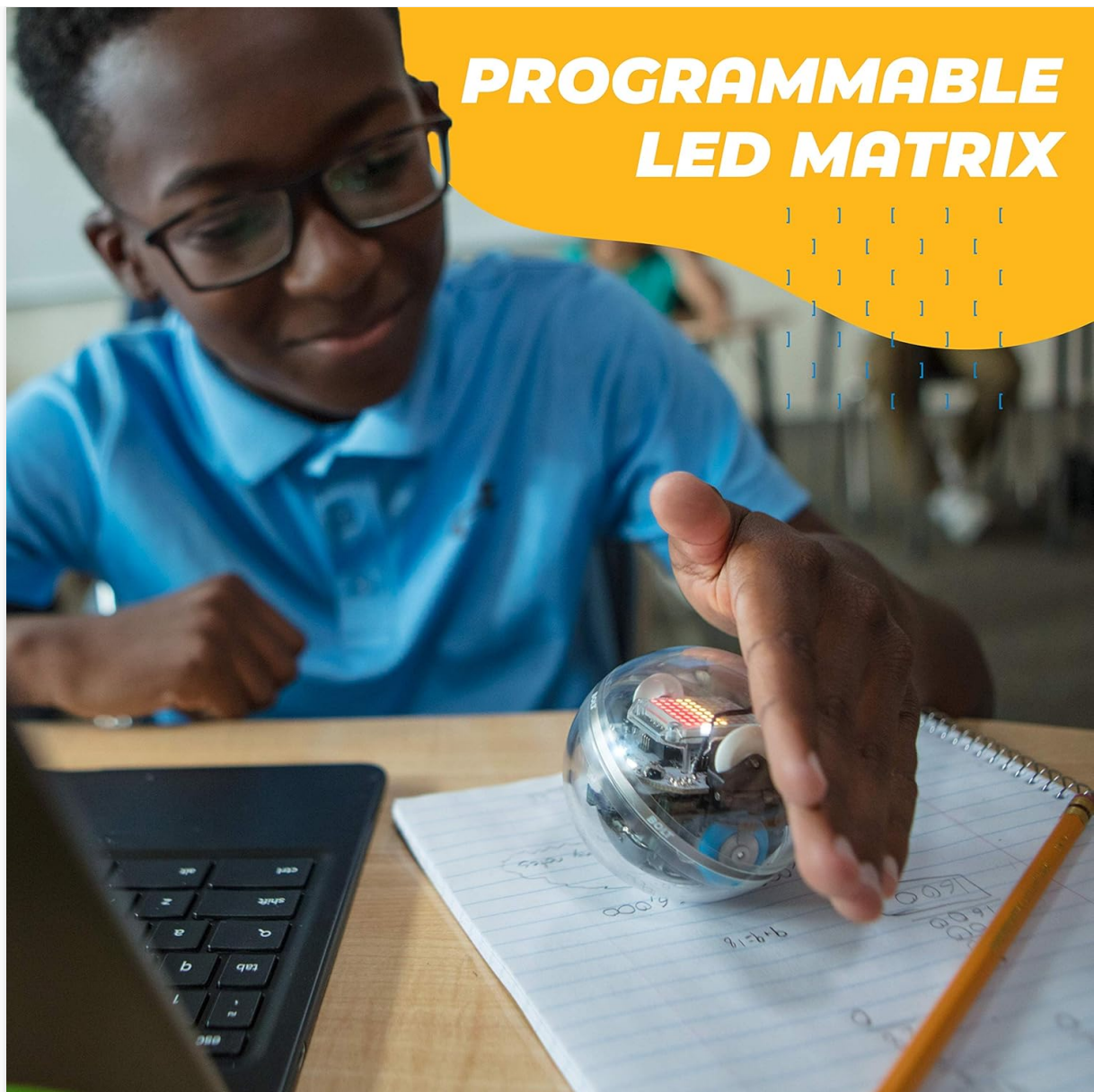
The Sphero Edu app includes a 'Drive' mode that allows you to control the BOLT's movement directly using your device's screen.

- Open the Sphero Edu app and connect to your BOLT.
- Navigate to the 'Drive' interface.
- Use the on-screen joystick or tilt controls to steer the BOLT.

2.2 Programming the BOLT

The Sphero BOLT supports three programming methods within the Sphero Edu app, catering to different skill levels:

- **Draw:** For beginners, draw a path on your screen, and the BOLT will follow it.
- **Blocks:** Use drag-and-drop coding blocks (based on Scratch) to create complex programs, controlling movement, lights, sounds, and sensor interactions.
- **JavaScript:** For advanced users, write JavaScript code to unlock the full potential of the BOLT.



A child interacting with the Sphero BOLT robot ball on a desk, with a laptop nearby, illustrating the coding and play experience.

2.3 Advanced Sensors and LED Matrix

The Sphero BOLT is equipped with several programmable sensors and an 8x8 LED matrix, allowing for dynamic and interactive experiences.

- **LED Matrix:** Program custom animations, scrolling text, or display data directly on the BOLT's surface.
- **Compass:** Detect the BOLT's orientation.
- **Light Sensor:** Measure ambient light levels.
- **Gyroscope & Accelerometer:** Detect motion, rotation, and impacts.
- **Motor Encoders:** Precisely track distance and speed.
- **Infrared Communications:** Allows BOLT robots to communicate with each other.

ADVANCED SENSORS

INFRARED COMMUNICATION • GYROSCOPE
LIGHT SENSOR • ACCELEROMETER • COMPASS



An image detailing the advanced sensors of the Sphero BOLT, including infrared communication, gyroscope, light sensor, accelerometer, and compass.

2.4 Durable and Waterproof Design

The Sphero BOLT features a durable, scratch-proof clear plastic shell, making it suitable for various environments and activities. It is also waterproof, allowing for play in or around water.



The Sphero BOLT robot ball submerged in water, demonstrating its waterproof design.

3. MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your Sphero BOLT.

3.1 Cleaning

The BOLT's clear plastic shell can be cleaned with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the surface.

- For general cleaning, wipe the exterior with a microfiber cloth.
- If the BOLT has been used in water, rinse it with fresh water and dry thoroughly before charging or storing.

3.2 Battery Care and Storage

To maintain battery health:

- Avoid fully discharging the battery frequently.
- For long-term storage, charge the BOLT to approximately 50% and store it in a cool, dry place. Recharge every few months to prevent deep discharge.
- Always use the provided inductive charging base and USB cable.

4. TROUBLESHOOTING

If you encounter issues with your Sphero BOLT, refer to the following common solutions.

4.1 Connection Issues

- **BOLT not appearing in app:** Ensure Bluetooth is enabled on your device. Try shaking the BOLT to wake it up. Restart the Sphero Edu app and your device.
- **Difficulty pairing:** Some users report initial pairing can be challenging. Ensure the BOLT is fully charged. Try moving closer to the BOLT and away from other Bluetooth devices. If issues persist, consult the Sphero Edu app's help section or Sphero's online support.

4.2 Charging Problems

- **BOLT not charging:** Ensure the USB cable is securely connected to both the charging base and a working power source. Verify the BOLT is correctly seated on the inductive charging base. Try a different USB port or power adapter.

4.3 App Functionality

- **App freezing or crashing:** Close and restart the Sphero Edu app. Ensure your device's operating system and the Sphero Edu app are updated to the latest versions.

5. SPECIFICATIONS

Detailed technical specifications for the Sphero BOLT robot ball.

Feature	Specification
Product Dimensions	2.87 x 2.87 x 2.87 inches
Item Weight	1.1 pounds
Item Model Number	Sphero Bolt
ASIN	B07DLM5DL7
Manufacturer Recommended Age	8 months and up
Batteries	1 A battery required (included)
Release Date	September 23, 2018
Manufacturer	Sphero
Connectivity	Bluetooth SMART
Battery Life	4+ hours of play

Feature	Specification
Sensors	Compass, Light Sensor, Gyroscope, Accelerometer, Motor Encoders, Infrared Communications
Display	8x8 LED Matrix

6. WARRANTY AND SUPPORT

For warranty information and further support, please refer to the official Sphero website or contact their customer service.

6.1 Product Warranty




Specific warranty details for the Sphero BOLT are typically provided with the product packaging or available on the manufacturer's official website. Please visit www.sphero.com for the most current warranty policy.


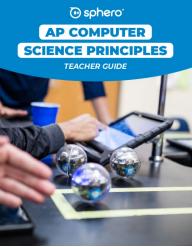

6.2 Customer Support

If you require assistance beyond the scope of this manual, Sphero offers comprehensive support resources:

- **Sphero Edu App:** The app itself contains tutorials, guides, and a community forum for programming and project ideas.
- **Online Help Center:** Visit the support section of the Sphero website for FAQs, troubleshooting guides, and contact options.
- **Community:** Engage with other Sphero users and educators for tips and inspiration.

Related Documents - Sphero Bolt

	<p>Sphero BOLT+ Quick Start Guide: Programming and Usage</p> <p>A comprehensive guide to getting started with the Sphero BOLT+ programmable robot, covering charging, app setup, connecting, programming basics, and starter program examples.</p>
	<p>Sphero indi: Guide for Multilingual Learners</p> <p>Discover Sphero indi, an approachable, entry-level learning robot designed to empower children. This guide explores how indi fosters computational thinking, coding basics, and problem-solving skills, especially for multilingual learners, through engaging activities like color tiles and challenge cards.</p>
	<p>Socially Distanced Learning with Sphero and littleBits</p> <p>A guide to using Sphero and littleBits robots for education in a socially distanced environment, including classroom management tips, cleaning instructions, activity ideas for school and home, and information on check-out programs.</p>

	<p>Sphero BOLT+ User Manual: Safety, Handling, Warranty, and Specifications</p> <p>This user manual provides essential information for the Sphero BOLT+ robot, including safety precautions, handling instructions, battery warnings, charging guidelines, warranty details, software license, technical specifications, and regulatory compliance information for models 920-0600 and 920-0710.</p>
	<p>Sphero AP Computer Science Principles Teacher Guide</p> <p>A teacher's guide for implementing Sphero robots in AP Computer Science Principles courses, covering creative development, data, algorithms, programming, and performance tasks.</p>
	<p>Sphero BOLT+ Power Pack User Manual: Safety, Operation, and Warranty</p> <p>This user manual provides comprehensive information for the Sphero BOLT+ Power Pack, including safety guidelines, operating instructions, battery warnings, charging procedures, use and storage recommendations, end-of-life disposal, warranty details, software license, exclusions, governing law, and regulatory compliance for the BOLT+ robot accessory.</p>