

## Product User Manual

This Important Product Information Guide contains safety, handling, disposal, recycling, and regulatory information, as well as the limited warranty for Sphero RVR™, including all current and future models of the RVO1 series. Read all safety information and operating instructions before using Sphero RVR to avoid injury or harm. For a downloadable version of the Sphero RVR User and Product Guides, visit [www.sphero.com/manuals](http://www.sphero.com/manuals).

## IMPORTANT SAFETY AND HANDLING INFORMATION

Read the following warning before you or your child play with Sphero RVR. Failing to do so may cause injury.

**CAUTION:** To reduce the risk of damage or injury, do not attempt to remove the Sphero RVR housing; please refer all non-routine servicing questions to Sphero, Inc. No user-serviceable parts are contained inside.

### General

- Read all safety and operating instructions before operating Sphero RVR. Follow all operating and use instructions.
- Retain the safety and operating instructions for future reference.
- Do not attempt to service Sphero RVR yourself. Refer all non-routine servicing to Sphero.

### Seizure, Blackouts and Eyestrain

A small percentage of people may be susceptible to blackouts or seizures (even if they have never had one before) when exposed to flashing lights or light patterns such as when playing games or watching video. If you have experienced seizures or blackouts or have a family history of such occurrences, you should consult a physician before playing video games or watching videos.

Discontinue use of Sphero RVR and your smart device controller and consult a physician if you experience headaches, blackouts, seizures, convulsion, eye or muscle twitching, loss of awareness, involuntary movement, or disorientation. To reduce risk of headaches, blackouts, seizures, and eyestrain, avoid prolonged use, hold your smart device controller some distance from your eyes, use Sphero RVR in a well-lit room, and take frequent breaks.

### WARNING: Choking Hazards

Sphero RVR has small parts inside, which may present a choking hazard to small children and pets. Keep Sphero RVR and its accessories away from small children.

### Keeping Sphero RVR Within Acceptable Temperatures

Operate and store Sphero RVR in a place where the temperature is between 0° C - 40° C (32° C - 104° F). Low or high-temperature conditions might temporarily shorten battery life or cause Sphero RVR to temporarily stop working properly. Avoid dramatic changes in temperature or humidity when using Sphero RVR. Don't leave Sphero RVR in your car because temperatures in parked cars can exceed this range. When you're using Sphero RVR or charging the battery, it is normal for Sphero RVR to get warm.

### Use and Maintenance

**WARNING: Sphero RVR is not suitable for use by children under 8 years of age.**

#### Never:

- Abuse, throw, drop, puncture, violently kick, or step on Sphero RVR. This can damage the robot and compromise its safe operation.
- Operate Sphero RVR in dangerous, hazardous, or public areas where use is not permitted (high voltage power lines, train stations, airports, trains, etc.). Check whether use of Sphero RVR is permitted before using it in public areas or public transport.
- Use the Sphero supplied USB cord to charge any device other than Sphero RVR.
- Short circuit the supply terminals for the RVR battery.

#### Always:

- Keep Sphero RVR in sight at all times when operating it to avoid injuries or damages to people, animals, or property.
- Ensure that no one is standing nearer than 1 yard (≈1 meter) from Sphero RVR when in operation and keep a safe distance between the robot and people, animals, and property.
- Periodically examine Sphero RVR for potential hazards such as cracked, damaged, or otherwise broken parts. In the event of such damage, do not use Sphero RVR until it can be replaced or repaired.
- Drive Sphero RVR on suitable surfaces. Although Sphero RVR can drive on a variety of surfaces, it works best on smooth, flat and hard surfaces (such as carpet, tile wood floors, and concrete).

**Battery Warning**

- Lithium polymer batteries are extremely hazardous and liable to cause serious injuries to persons or property. The user accepts liability for the use of a lithium polymer battery. As the manufacturer and the distributor cannot ensure the battery is used correctly (charging, discharging, storage, etc.), they cannot be held liable for damages caused to persons or property by improperly used batteries.
- In the event of battery leakage, avoid the liquid coming into contact with skin and eyes. In case of contact with the skin, wash copiously with soap and water. In case of contact with the eyes, rinse copiously with cold water and consult a doctor. If you notice a suspicious smell or noise, or observe smoke around the charger, disconnect it immediately.
- Non-compliance with the instructions below could result in gas being given off, fire, electric shock, or an explosion.
- The RVR battery is designed to be inserted in only one direction, ensuring the correct polarity of the battery terminals. Do not force the battery into RVR as this can cause damage and potential harm.

**Charging**

- Remove the battery from RVR before charging. The charging port for the battery is inaccessible when installed in the RVR.
- Batteries are only to be charged under adult supervision.
- Battery chargers used with the toy are to be regularly examined for damage to the cord, plug, enclosure, and other parts. In the event of such damage, do not use the battery charger until it can be replaced or repaired.
- Examine the Sphero RVR regularly for damage to the cord, plug, enclosure, or other parts. Never use a damaged USB cord for charging or charge a damaged battery. Use only the supplied USB cable for charging. Misuse can cause electrical shock.
- Never charge a leaky battery or one that has been damaged.
- Do not use the Sphero RVR to charge any other battery. Non-rechargeable batteries are not to be recharged. Different types of batteries or new and used batteries are not to be mixed.
- Do not charge the battery near inflammable materials or on an inflammable surface (carpet, wooden flooring, wooden furniture, etc.) or conducting surface. Do not leave Sphero RVR unattended during charging.
- Never charge the device immediately after use while it is still hot. Let it cool down to room temperature.
- Do not cover your battery while charging. Recharge the battery at a temperature of between 0°C - 40°C (32°F - 104°F).

**Use and storage**

- Do not use Sphero RVR if its chassis has been broken and the battery's plastic cover has been cracked or compromised in any way.
- Do not expose the battery to excessive physical shock.
- Do not expose Sphero RVR and its battery to heat or dispose of it in a fire.
- Do not put the battery in a microwave oven or in a pressurized container.
- Do not attempt to dismantle, pierce, distort, or cut the battery and do not attempt to repair the battery. Do not place any heavy objects on Sphero RVR, the battery, or charger.
- Do not subject Sphero RVR and its battery to large temperature variations. Do not place your Sphero RVR near a source of heat.
- Do not clean Sphero RVR with a solvent, denatured alcohol, or other inflammable solvents. When cleaning, be sure to power off RVR.
- Disconnect the charger when you are not charging the battery. Remove the battery once it can no longer power your RVR. Do not store the battery inside RVR for long periods of time.

**End of Life Product Disposal**

At the end of this product's life, do not dispose of this product in your general household waste. Instead, in order to prevent possible harm to the environment or human health from uncontrolled waste disposal, please dispose of this product separately in accordance with your local laws and regulations. For more information on the separate collection systems for waste electrical and electronic equipment that are available for consumers near your home free of charge, please contact your local municipality. You can also contact the retailer from which you purchased your Sphero RVR as they may have recycling services or may be part of a specific recycling program.

If disposed of properly, this product will be treated in an environmentally sound manner at a licensed recycling plant and its components will be recovered, recycled or reused in the most efficient manner in compliance with the requirements of the Directive on Waste Electrical and Electronic Equipment (2012/19/EU) of 14 February, 2014 (as subsequently amended or replaced) ("2012/19/EU").

**Battery disposal**

Damaged or unusable batteries must be disposed of in a container specially reserved for this purpose. When disposing of the battery, follow appropriate local guidelines and regulations. For further information, contact your local solid waste authority.

**WEEE**

The trash can symbol on Sphero RVR or on its packaging indicates that it must not be disposed of with your other household waste, pursuant to 2012/19/EU. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service, or the shop where you purchased the product.

### **Warranty**

#### Limited Warranty to Original Purchaser

This Sphero RVR product, as supplied and distributed by Sphero, Inc. or its authorized distributor or reseller, and delivered new, in the original carton to the original purchaser, is warranted by Sphero, Inc. against manufacturing defects in materials and workmanship for a period of 1 year, or such longer period as applicable local law requires. If purchased directly from Sphero, Sphero will repair or replace this product, at our option and at no charge, with new or reconditioned parts, if found to be defective during the limited warranty period specified above. If purchased from an authorized Sphero distributor or reseller, such authorized party will replace this product, at no charge, with new or reconditioned parts, if found to be defective during the limited warranty period specified above.

#### **If a defect arises:**

Please contact us at [support@sphero.com](mailto:support@sphero.com) to be provided with a Return Material Authorization Request (RMA) number. Provide this number with your package when shipping. We do not accept returns without the RMA number. Purchaser is responsible for all shipping costs.

### **Software License**

Use of Sphero RVR is subject to the Sphero RVR Software License Agreement found at: [sphero.com](http://sphero.com).

### **Exclusions and Limitations**

This warranty covers the normal and intended use of Sphero RVR. It applies only to the hardware product "Sphero RVR" manufactured by or for Sphero, Inc. that can be identified by the "Sphero" trademark, trade name or logo affixed to it. The Limited Warranty does not apply to any non-Sphero hardware product or any software, even if packaged or sold with the Sphero RVR hardware product. Refer to the terms of use for Sphero RVR for details of your rights with respect to the use of applications on your Sphero RVR.

Sphero does not warrant that the operation of Sphero RVR will be uninterrupted or error-free. Sphero is not responsible for damage arising from failure to follow instructions relating to Sphero RVR's use. This warranty does not apply to:

- a) Consumable parts, such as batteries, or protective coatings designed to diminish over time unless failure has occurred due to a defect in materials or workmanship;
- b) Damage caused by use with non-Sphero RVR products;
- c) Damage caused by accidents, misuse, abuse, neglect, misapplication, fire, water, lightning, or other acts of nature; incorrect electrical line voltage, fluctuations or surges; damage caused by improper installation; product alteration or modification; improper or unauthorized repair; exterior finish or cosmetic damage;
- d) Damage caused by operating Sphero RVR outside the intended uses described by Sphero; or
- e) Defects caused by normal wear and tear or otherwise due to the normal aging of the Sphero RVR product.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED AND DESCRIBED ABOVE, AND NO WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS, SHALL APPLY AFTER THE EXPRESS WARRANTY PERIOD STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTEE GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SPHERO. EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, SPHERO IS NOT RESPONSIBLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, LOSS OF OPPORTUNITY, LOSS OF GOODWILL, LOSS OF REPUTATION, LOSS OF, DAMAGE TO, COMPROMISE, OR CORRUPTION OF DATA, OR ANY OTHER SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT, OR ANY BREACH OF ANY WARRANTY OR CONDITION REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, EVEN IF SPHERO HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST SPHERO BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF SPHERO RVR. WITHOUT LIMITING THE FOREGOING, PURCHASER ASSUMES ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO PURCHASER AND PURCHASER'S PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT SOLD BY SPHERO NOT CAUSED DIRECTLY BY THE GROSS NEGLIGENCE OF SPHERO. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT, IS NONTRANSFERABLE, AND STATES YOUR EXCLUSIVE REMEDY.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

**Governing Law and Arbitration.**

This Limited Warranty shall be governed by the laws of the State of Colorado without giving effect to any conflict of laws principles that may provide the application of the law of another jurisdiction. Any claim or dispute in connection with this Limited Warranty shall be resolved in a cost-effective manner through binding non-appearance-based arbitration. The arbitration shall be initiated through an established alternative dispute resolution provider mutually agreed upon by the parties. The alternative dispute resolution provider and the parties must comply with the following rules:

- a) The arbitration shall be conducted by telephone, online, and/or be solely based on written submissions. The specific manner shall be chosen by the party initiating the arbitration;
- b) The arbitration shall not involve any personal appearance by the parties or witnesses unless otherwise mutually agreed by the parties; and
- c) Any judgment on the award rendered by the arbitrator may be entered in any court of competent jurisdiction.

If the foregoing arbitration clause does not apply for any reason, you agree to submit to the personal jurisdiction of the state courts located within Boulder County, Colorado and the federal courts in Denver, Colorado for the purpose of litigating all such claims or disputes, which courts shall have exclusive jurisdiction of such claims or disputes. Notwithstanding the foregoing, Sphero may seek injunctive or other equitable relief to protect its intellectual property rights in any court of competent jurisdiction.

**Changes to this Product Information Guide**

The explanations and specifications in this guide are given for information only and may be modified at any time without prior notice. The latest version of this guide will be available from our website at [www.sphero.com/manuals](http://www.sphero.com/manuals). The explanations and specifications contained in this guide are correct at the time of printing. Sphero reserves the right to amend or improve the product design or user guide without any restrictions and without any obligation to notify users.

As part of our ongoing effort to upgrade and improve our products, the product that you have purchased may therefore differ slightly from the model described in this guide.

**IMPORTANT!**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**Technical Specification:**

Transmit Frequency: BLE 4.2 (2402MHz – 2480MHz)

Maximum RF Output Power of RV01: -8±1dBm

**FCC/ Industry Canada**

Model: RV01

FCC ID: SXO-RV01

IC: 10016A-RV01

**Responsible Party**

Sphero Inc.

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[sphero.com](http://sphero.com)

**FCC and IC Compliance Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme à la partie 15 des règles de la FCC. Son fonctionnement est soumis aux deux conditions suivantes: (1) ce dispositif ne doit pas causer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de la dispositif.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) L'appareil ne doit pas produire de brouillage; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

*CAN ICES-3 (B)/NMB-3(B)*

### **Bluetooth**

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### **Apple**

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### **Android**

Android™ platform, Google Play™ store and the Google Play logo are trademarks of Google LLC.

### **Software**

Your Sphero RVR product can connect with special Sphero, Inc. copyrighted software to control its operation. Parts of this software may contain copyrighted elements that are licensed under the GPL, MIT, and Creative Common licenses among others. Additionally, your Sphero RVR product contains proprietary firmware developed and copyrighted by Sphero, Inc. On our web site, free source code of sample software is available for developers; please visit [sphero.com](https://support.sphero.com) for more information.

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### **EC Declaration of Conformity**

Hereby, Sphero, Inc. declares that Sphero RVR model RV01 is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive (RED) 2014/53/EU.

The EC Declaration of Conformity can be found at the link below.

<https://support.sphero.com/support/solutions/articles/9000091303-declarations-of-conformity>

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Model No. RV01

