



PRODUCT INFORMATION GUIDE



**WARNING:**  
CHOKING HAZARD – Small parts.  
Not for children under 3 yrs.  
Warning. Not suitable for children  
under 36 months. Small parts



ASTM INTERNATIONAL



## **PRODUCT INFORMATION GUIDE**

This Important Product Information Guide contains safety, handling, disposal, recycling, and regulatory information as well as the limited warranty for Phiro. Read all safety information and operating instructions before using Phiro. For a downloadable version of the Phiro User and Product Guides, visit [www.robotixedu.com](http://www.robotixedu.com)

## **IMPORTANT SAFETY AND HANDLING INFORMATION**

Read the following instructions before using Phiro. Failure to do so may cause injury. **CAUTION:** To reduce the risk of damage or injury, do not attempt to remove Phiro's shell. Please refer all servicing questions to Robotix. No user-serviceable parts are contained inside.

### **General**

- Read all safety and operating instructions before operating Phiro.
- Retain the safety and operating instructions for future reference.
- Follow all operating and use instructions.
- Do not attempt to service Phiro. Refer all servicing questions to Robotix.

### **Seizure, Blackouts and Eyestrain**

If you have experienced seizures or blackouts when exposed to flashing lights or light patterns such as when playing games or watching video, or have a family history of such occurrences, you should consult a physician before using Phiro. If you experience headaches, blackouts, seizures, convulsion, eye or muscle twitching, loss of awareness, involuntary movement, or disorientation while using Phiro, discontinue use of Phiro and your smart device controller and consult a physician. To reduce the risk of headaches, blackouts, seizures, and eyestrain, avoid prolonged use of Phiro, hold your smart device controller some distance from your eyes, and use Phiro in a well-lit room.

## **Repetitive Injury**

Avoid prolonged use of the smart device controller, particularly by children, which may cause occasional discomfort in the hands, arms, shoulders, neck, or other parts of the body. Those experiencing such discomfort during or after use of the smart device controller, should stop using it and consult a physician.

## **WARNING: Choking Hazards**

Phiro has small parts, which may present a choking hazard to children under 4 years of age and pets. Keep Phiro and its accessories away from children under 4 years of age.

## **Keeping Phiro Within Acceptable Temperatures**

Operate and store Phiro in a place where the temperature is between 0° and 40° C (32° to 104° F). Low or high-temperature conditions, such as in parked cars, might temporarily shorten battery life or cause Phiro to temporarily stop working properly. Avoid dramatic changes in temperature or humidity when using Phiro, as condensation may form on or within Phiro. However, when using Phiro or charging the battery, it is normal for Phiro to become warm.

## **Use and Maintenance**

**WARNING: Phiro is not suitable for use by children under 4 years of age.**

**Never:**

- Throw, drop, puncture, kick, step on, or otherwise subject Phiro to physical abuse. This can damage Phiro and compromise its safe operation.
- Operate Phiro in dangerous, hazardous or public areas where use is not permitted, such as near high voltage power lines, in train stations or airports, or on trains or airplanes). Check whether use of Phiro is permitted before using it in public areas.

**Always:**

- Keep Phiro in sight at all times while operating it to avoid injuries or damage to people, animals, or property.
- Ensure that people, animals, and property are more than 1 yard (1 meter) away from Phiro while it is in operation.
- Periodically examine Phiro for potential hazards such as cracked, damaged or otherwise broken parts. In the event of such damage, do not use Phiro.
- Operate Phiro on smooth, flat and hard surfaces (such as carpet, tile wood floors, and concrete).

**Battery Warning**

- Lithium Polymer batteries are extremely hazardous and may cause serious injuries to persons or property. As the manufacturer, the distributor, and Robotix cannot ensure the battery is used correctly (such as when charging, discharging, or storing, etc.), the user accepts liability for any damages caused by the use of a Lithium Polymer battery.

- In the event of battery leakage, avoid the liquid coming into contact with skin and eyes. In case of contact with the skin, wash with soap and water. In case of contact with the eyes, rinse with cold water and consult a physician. If you notice a suspicious smell or noise or observe smoke around the charger, disconnect it immediately.
- Non-compliance with these instructions below may result in dangerous gas emissions, fire, electric shock, or an explosion.

## Charging

- Use an approved charger to charge Phiro. (CE, FCC, ASTM, UL and/or any other applicable standards as per your country)
- Examine the charging cord regularly for damage. Never use a damaged charging cord. Use only the supplied charging cord. Misuse of the charger or the charging cord may cause electrical shock.
- Never charge a leaky battery or one that has been damaged. Do not use the Phiro charging cord to charge any battery other than the provided rechargeable battery.
- Do not charge the battery near inflammable materials, on an inflammable surface (such as carpet, wooden flooring, wooden furniture, etc.), or on a conducting surface (such as metallic surfaces, wet surfaces etc.). Do not leave Phiro unattended during charging.

- Never charge Phiro immediately after use or while it is still hot. Allow Phiro to cool down to room temperature before charging.
- Batteries should be charged by children only with adult supervision.
- Do not cover Phiro or its charger while the battery is charging. Recharge the battery only in a place where the temperature is between 0° and 40° C (32° to 104° F).

### **Use and storage**

- Do not use Phiro if its cover has been broken and the battery's plastic cover has been cracked or broken in any way.
- Do not expose the battery to excessive physical shock.
- Do not expose Phiro or its battery to heat or put them in or near fire.
- Do not put Phiro or its battery in a microwave oven or in a pressurized container.
- Do not attempt to dismantle, pierce, distort, cut, or otherwise repair the battery.
- Do not place any heavy objects on Phiro, the battery, or the charging cord.
- Do not clean the charging cord with a solvent, denatured alcohol, or other inflammable solvent. When cleaning, be sure to unplug the charging cord and clean only with a dry cloth.

- Avoid direct contact with the electrolyte contained within the battery and with electrolysis vapor from the battery, which are harmful to health.
- Do not subject Phiro and its battery to large temperature variations. Do not place Phiro near a source of heat.
- Disconnect the charging cord when not charging the battery.

### **Limited Warranty to Original Purchaser**

This Phiro product, as supplied and distributed by Robotix USA, LLC., and delivered new, in the original carton to the original customer purchaser, is warranted by Robotix USA, LLC. against manufacturing defects in materials and workmanship for a period of 1 year. Robotix USA 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.

This limited warranty covers only the normal and intended use of Phiro and applies only to the hardware product "Phiro" manufactured by or for Robotix USA, LLC that can be identified by the "Phiro" trademark, trade name or logo affixed to it. This limited warranty does not apply to any non-Robotix hardware product or any software, even if packaged or sold with the Phiro hardware product. Refer to the software license agreement accompanying the software for details of your rights with respect to its use. Robotix USA does not warrant that the operation of Phiro will be uninterrupted or error-free. Robotix USA is not responsible

for damage arising from failure to follow instructions relating to Phiro'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-Phiro 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 Phiro outside the intended uses described herein;
- e) Defects caused by normal wear and tear or otherwise due to the normal aging of the Phiro product.

THERE ARE NO WARRANTIES OTHER THAN THOSE DESCRIBED ABOVE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS, AND THE LIMITED WARRANTY SHALL NOT APPLY AFTER THE EXPRESS WARRANTY PERIOD STATED ABOVE. NO OTHER WARRANTY OR GUARANTEE GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON ROBOTIX USA, LLC. IN NO CIRCUMSTANCE SHALL

ROBOTIX USA BE 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, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF ROBOTIX USA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO CIRCUMSTANCE SHALL RECOVERY OF ANY KIND AGAINST ROBOTIX USA BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF PHIRO. 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 NOT CAUSED DIRECTLY BY THE GROSS NEGLIGENCE OF ROBOTIX USA. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT, IS NONTRANSFERABLE AND STATES YOUR EXCLUSIVE REMEDY FOR ANY CLAIMS RELATED TO THIS PRODUCT.

These limitations and exclusions may not apply in all states.

**If a defect arises:**

Please contact us at [robotixusa@robotixedu.com](mailto:robotixusa@robotixedu.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 Phiro is subject to the Phiro Software License Agreement found at [www.robotixedu.com](http://www.robotixedu.com)

**Governing Law and Arbitration.**

This Limited Warranty shall be governed by the laws of the Commonwealth of Massachusetts, USA, without giving effect to any conflict of laws principles. Any claim or dispute in connection with this product shall be resolved through binding, non-appearance-based arbitration, which 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, and 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 and federal courts located within Boston, MA, USA for the purpose of litigating all such claims or disputes, which courts shall have exclusive jurisdiction of such claims or disputes. Notwithstanding the foregoing, Robotix USA may seek injunctive or other equitable relief to protect its intellectual property rights in any court of competent jurisdiction.

YOU EACH HEREBY WAIVE ANY AND ALL RIGHTS YOU MAY HAVE TO A JURY TRIAL IN CONNECTION WITH ANY LITIGATION, PROCEEDING OR COUNTERCLAIM ARISING WITH RESPECT TO THE PRODUCT AND THE LIMITED WARRANTY.

### **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.robotixedu.com](http://www.robotixedu.com). Robotix USA 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 differ slightly from the model described in this guide.

### **Battery and Product Disposal - WEEE**

Phiro and its batteries must not be disposed of with other general household waste. Instead, it is your responsibility to dispose of damaged or unusable batteries or Phiro by disposing of them a container specially reserved for this purpose and handing it over to a designed collection point for the recycling of waste electrical and electronic equipment in compliance with the requirements of the Directive on Waste Electrical and Electronic Equipment (2002/96/EC) of 27 January 2003 (as subsequently amended or replaced). Please follow appropriate local guidelines and regulations. For further information contact your local solid waste authority, your household waste disposal service, or the retailer from which you purchased your Phiro.

### **IMPORTANT!**

Any changes or modifications not expressly approved by Robotix USA, LLC will void the user's authority to operate Phiro.

## **FCC/CE**

Phiro has been tested to meet toy safety standards as per CE-EN71 and USA-ASTM 963 and also tested to meet required FCC & CE-EN standards.

**Attributions:** LEGO, Apple, Google Play, Android, Windows, Mac, Linux, Arduino, Scratch, Snap4Arduino, Pocket Code logos are all trademarks/service-marks of their respective companies, organizations or owners.

## **Software**

Your Phiro product can connect with special Robotix USA, LLC copyrighted software to control its operation. Parts of this software may contain copyrighted elements that are licensed under the GPL, MIT, and Creative Commons licenses, among others. Additionally, your Phiro product contains proprietary firmware developed and copyrighted by Robotix USA, LLC.

## **Copyright**

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## **Registered Trademarks**

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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 received, including interference that may cause undesired operation.

Visit us at  
[www.robotixedu.com](http://www.robotixedu.com)

Made in India



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