



© 2019 Kai's Clan  
Designed in New Zealand  
SKU:KAI-QS Edition 8



Adventures in <collaborative> coding

# Quick Start Guide for teachers

Thank you from the Kai's Clan Team

[www.kaisclan.ai](http://www.kaisclan.ai)

Adult Supervision is required for assembly

# Welcome to Kai's Clan

Kai's Clan is a collaborative coding experience that will take you on an adventure through a variety of exciting educational activities.

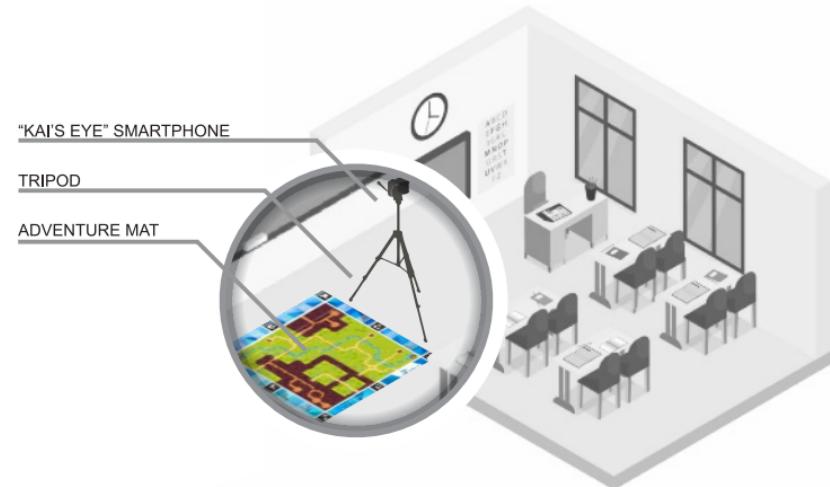
You will learn coding, teamwork and problem solving as you sort stock in the busy warehouse, or jump in the driver's seat of a rover on Mars!

*I personally want to thank you for choosing Kai's Clan and hope you enjoy using it as much as we have enjoyed creating it for you.*

Thanks

Bruce & the Kai's Clan team

Bruce ☺



*We suggest that you familiarise yourself with Kai's Clan before implementing it in the classroom.*

# Need more information?



[www.kaisclan.ai/support](http://www.kaisclan.ai/support)



[support@kaisclan.ai](mailto:support@kaisclan.ai)



User Guide

[www.kaisclan.ai/guide](http://www.kaisclan.ai/guide)



Helpful Tips

[www.kaisclan.ai/faq](http://www.kaisclan.ai/faq)

# What's included:

4 x Kai Robot kits- refer to “Build a Robot” guide.

1 x Create Activity Mat

1 x Tripod + phone holder

1 x Kai’s network USB Microuter

1 x Quick Start Guide

1 x Build a Robot Guide

1 x Pack of Kai coding cards

1 x Kai Sensor Bit pack

1 x Pack of Robot QR Marker Codes

1 x USB 1-to-4 way charging cable

Please note: Smartphone for Kai’s Eye app not included.



## What you'll need...

First things, first. You'll need a dedicated smartphone to be used as "Kai's Eye".

We would not advise using your own personal phone as risk of receiving messages or calls could be quite disruptive to the learning experience.



Scan QR code to watch video or visit

 [www.kaisclan.ai/step1](http://www.kaisclan.ai/step1) 



A dedicated smart phone is required to run the "Kai's Eye" computer vision app, that tracks the whereabouts of Kai robots and QR markers on the mat.

## 💻 Build the “Kai” robots



Use “Build a Robot” guide or  
watch the assembly video



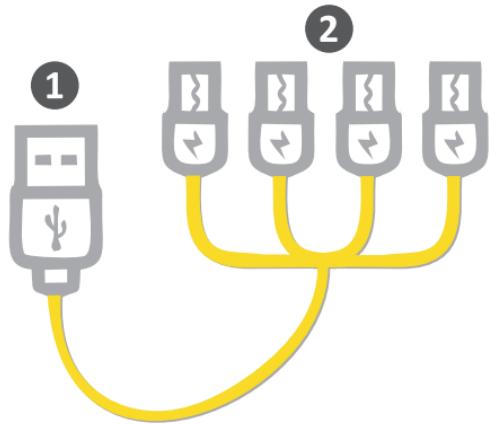
Scan QR code to watch video or visit

 [www.kaisclan.ai/step2](http://www.kaisclan.ai/step2) 

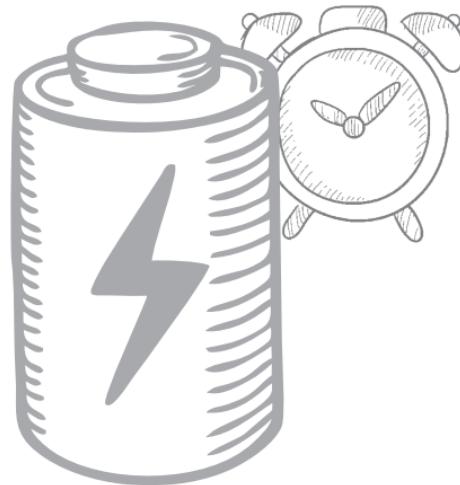
Q: What do you get when you cross a robot with a tractor?

A: A trans-farmer.

## Charge the Kai robots



- 1 Plug the yellow 1-to-4 charging cable into any USB power source
- 2 Plug the micro USB ends into your Kai robots



1 hour to charge & up to 4 hours of use



Q: Why do robots have summer holidays?  
A: To recharge their batteries

# Let's get the Kai's Clan network set up

*You will only need to do this once.*

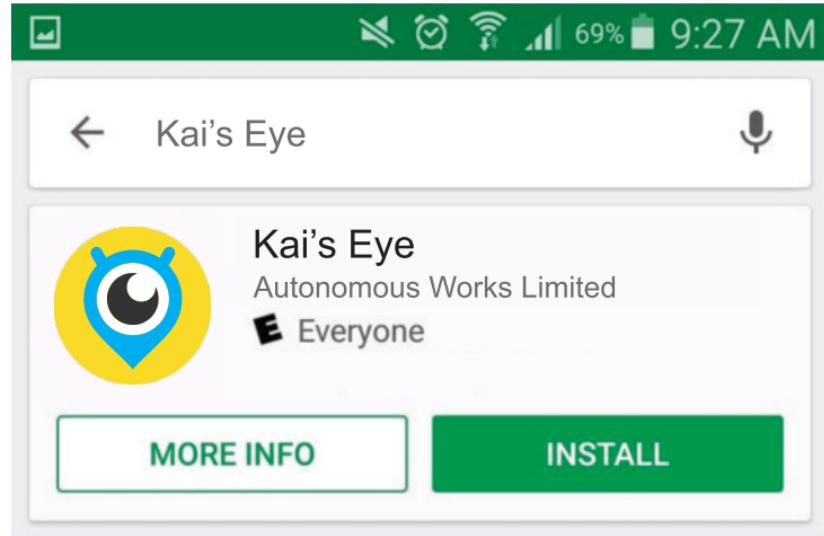


**Q:** What did the robot call its creator?

**A:** Da-ta

# Install Kai's Eye app on the phone

- 1 Install “Kai’s Eye” app from the App Store
- 2 With the Kai’s Eye app scan the Kai’s Eye serial barcode located on the box.



Q: What do you call a pirate robot?  
A: Arrrrr2D2.



[www.kaisclan.ai/step5](http://www.kaisclan.ai/step5)

# 💻 Register your teacher account

- 1 On your computer, register a new Teacher account
- 2 If you don't receive the activation email, check your SPAM folder



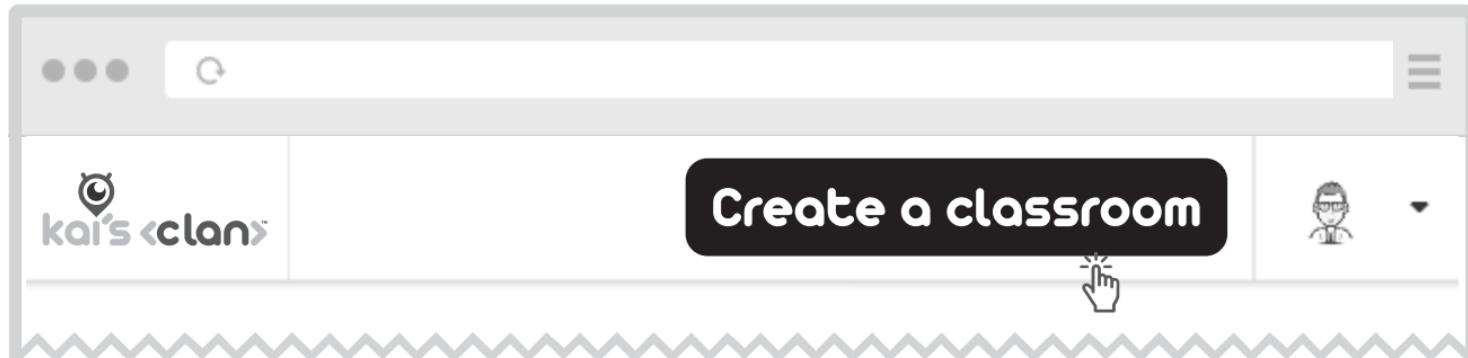
I'm a **TEACHER** or **STUDENT**

Q: Why did the robot cross the road?

A: <motor "left"= 100; motor "right"= 100>;



# 💻 Create a classroom



QR This will generate your classroom QR code that you'll scan with the Kai's Eye app.

Q: What is a robot's favorite type of music?  
A: Heavy metal!

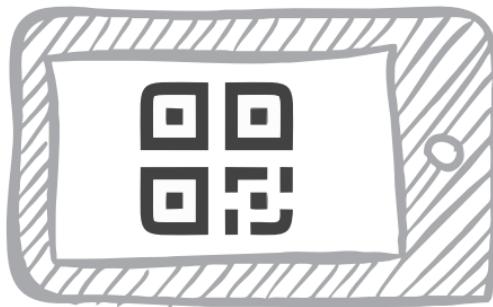


www.kaisclan.ai/step7



# Scan the classroom code with Kai's Eye phone

Now using the “Kai’s Eye” phone,  
start the “Kai’s Eye” app and scan the classroom QR code  
from the previous step.



Q: Why was the robot mad?

A: People kept pushing its buttons.

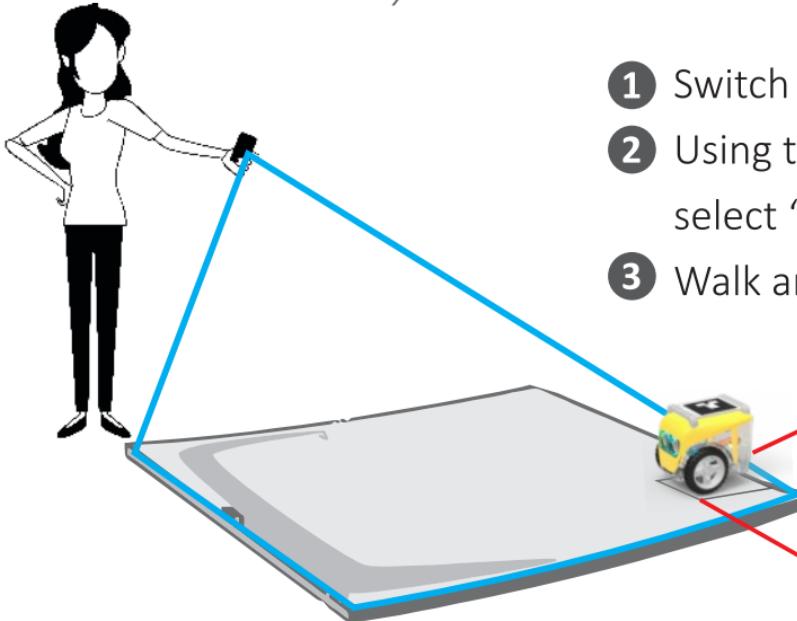


[www.kaisclan.ai/step8](http://www.kaisclan.ai/step8)

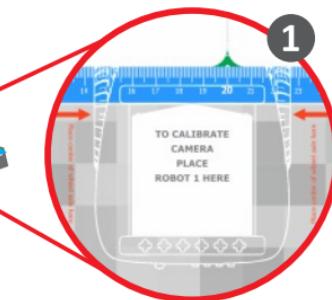


# Calibrate “Kai’s Eye”

You will only need to do this once.



- 1 Switch off & place one robot on the mat calibration point
- 2 Using the “Kai’s Eye” app on the phone, select “Robot tracking” option and calibrate the mat.
- 3 Walk around the mat to calibrate



Ensure the centre of the wheels are placed over the red calibration arrows on the mat.

Q: Why did the robot go back to school?

A: Because his skills were getting a little rusty!



[www.kaisclan.ai/step9](http://www.kaisclan.ai/step9)



# Set up the tripod

- 1 Mount the phone holder onto the end of the tripod
- 2 Secure the phone into the phone holder
- 3 Place the tripod next to the mat,  
in an area of the room where the tripod won't get knocked over



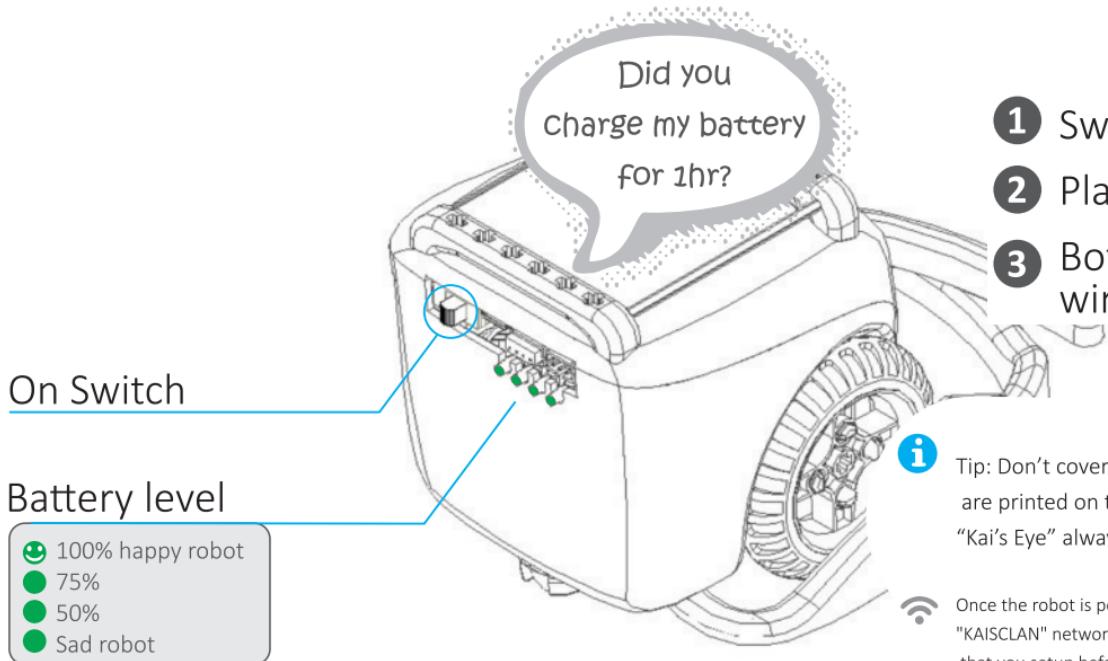
Q: Where do robots sit?  
A: On their robottoms.

Tip:

The QR marker codes on robots and the mat must not be covered. Kai's Eye uses computer vision to track the positions of all these markers. **Do not cover, block or obstruct the QR markers.**

 [www.kaisclan.ai/step10](http://www.kaisclan.ai/step10) 

# ON Power up the “Kai” robots



- 1 Switch on the “Kai” robots
- 2 Place the bots on the mat
- 3 Bots connect to “KAISCLAN” wireless network



Tip: Don't cover the QR markers that are printed on the mat or on top of the robot. “Kai’s Eye” always needs to view them.

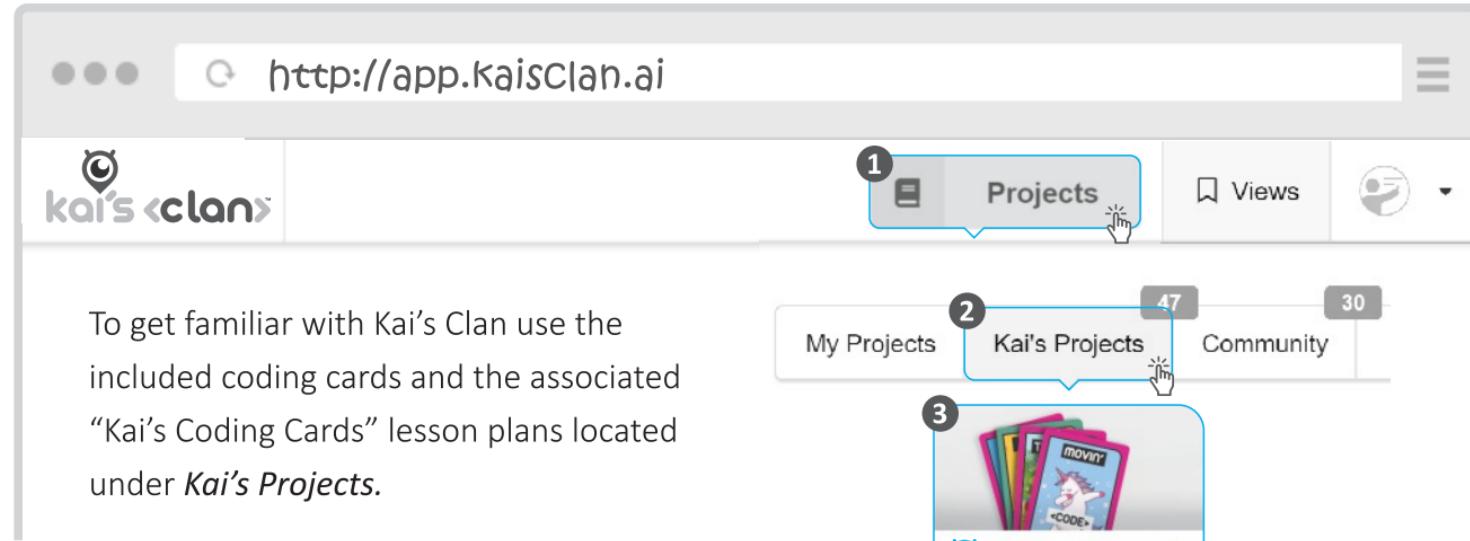


Once the robot is powered, the Wi-Fi will automatically scan for “KAISCLAN” network, that you setup before and uses the default password.

Robot: “I am feeling a little off today. How about turning me on?  
The switch is on the back of my neck.”



# You're ready to start coding!



To get familiar with Kai's Clan use the included coding cards and the associated "Kai's Coding Cards" lesson plans located under *Kai's Projects*.

1 Projects

2 Kai's Projects

3 Kai's Coding Cards

Tip: You will need to add students to your classroom and allocate robots to them.

 [www.kaisclan.ai/step12](http://www.kaisclan.ai/step12) 



# Kai's Clan Product Info

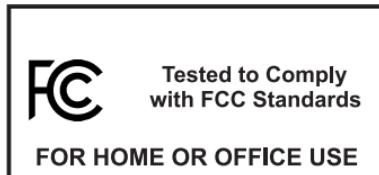
**Kai's Clan User Guide:** Go to <http://www.kaisclan.ai/guide>

**Safety & Handling:** See "Safety & Handling" in the Kai's Clan User Guide. To avoid harm or injury, read all operating instructions and safety information before using Kai's Clan. Be careful when handling Kai. Do not attempt to service or repair the robot unless advised by Kai's Clan support team. Adult supervision required.

**Health Considerations:** See "Health Considerations" in the Kai's Clan User Guide.

**Regulatory:** This device complies with CE and FCC requirements. See "Regulatory" in the Kai's Clan User Guide for details.

**Warning:** Not suitable for children under three years old, contains small parts.



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.

**Batteries:** LITHIUM ION BATTERIES THAT KAI'S CLAN USES CAN BE HAZARDOUS IF HANDLED INCORRECTLY. DO NOT ATTEMPT TO OPEN, SERVICE, OR DISASSEMBLE THE BATTERY. DO NOT SHORT CIRCUIT. MAY EXPLODE IF DISPOSED OF IN FIRE. RISK OF EXPLOSION IF BATTERY REPLACED BY AN INCORRECT TYPE. SEE "BATTERIES" IN THE KAI'S CLAN USER GUIDE FOR USAGE INFORMATION.

**Autonomous Works Warranty Summary:** This Kai's Clan product, as supplied and distributed by Autonomous Works Ltd., and delivered new as a kit, in the original packaging to the original customer purchaser, is warranted by Autonomous Works Ltd against manufacturing defects in materials and workmanship for a period of 1 year. Full terms can be found in the Kai's Clan User Guide, see "Warranty"

**Google Play:** Google Play™ is a trademark of Google Inc. Use of this trademark is subject to Google Permissions.

**Software:** Your robots connect with special Autonomous Works Ltd copyrighted software to control functions and operations. Parts of this software may contain copyrighted elements that are licensed under the GPL, MIT and Creative Common licenses, among others. Additionally, your Kai's Clan product contains proprietary firmware and software developed and copyrighted by Autonomous Works.

2019 © Autonomous Works Ltd. All Rights Reserved. Autonomous Works, the Autonomous Works logo and Kai's Clan are trademarks of Autonomous Works Ltd. All other trademarks mentioned in this guide are property of their respective owners.

### **FCC Warning Statement**

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

### **FCC Radiation Exposure Statement**

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.