



Bare  
Conductive®

Catalogue



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## ABOUT BARE CONDUCTIVE

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# Bare Conductive is at the intersection of materials, design and technology.

In 2011 Bare Conductive created a new way to prototype and interact with Electronics. With Electric Paint's launch, four graduates from the Royal College of Art and Imperial College London introduced the first widely accessible printed electronics tools to the market.

With Electric Paint as the foundation, the community snowballed, taking Electric Paint into electronic prototyping, education, art, and music. Tools like the Touch Board and the Pi Cap made Electric Paint a valuable material for creating touch or proximity interaction in projects. Suddenly any surface could become a sensor, triggering light, sound, or almost any other software effect. Bare Conductive's popular kits package these tools with essential accessories and carefully designed projects to teach novice users or propel professionals' ideas.

These products appeal to a wide community of designers, artists, engineers, students, educators, and professionals. This broad range of engagement is the key to establishing Bare Conductive as a uniquely collaborative and interdisciplinary brand. Bare Conductive's exists to put printed electronics and smart surface tools into the hands of anyone who has an idea and the drive to create.

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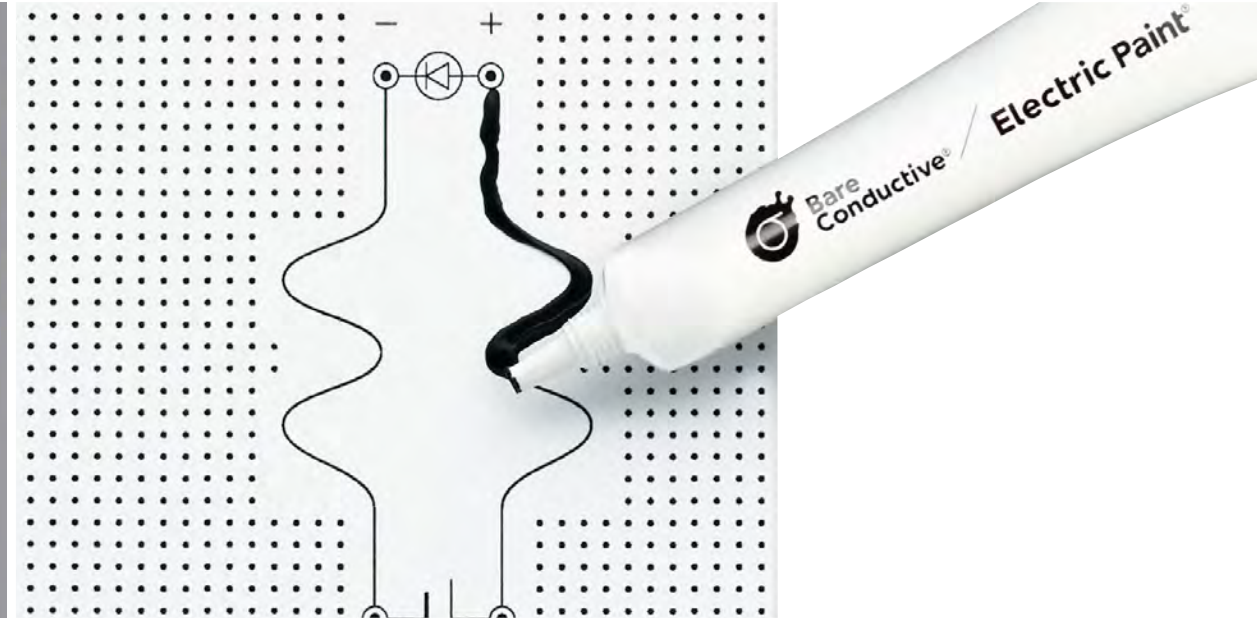
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Click below to see our social media channels:



# Electric Paint 10ml / SKU-0018

Create circuits with paint



Draw circuits and sensors with electrically conductive paint.

**Electric Paint** is a conductive ink which can be used to repair breaks, cold solder or to draw small scale circuits. **Electric Paint** is non-toxic, dries at room temperature, and can be applied onto any non-conductive, non-hydrophobic surfaces, like paper, plastic, textiles, or wood. The Electric Paint tube is an ideal tool for applying small quantities of conductive ink.

## Product Features

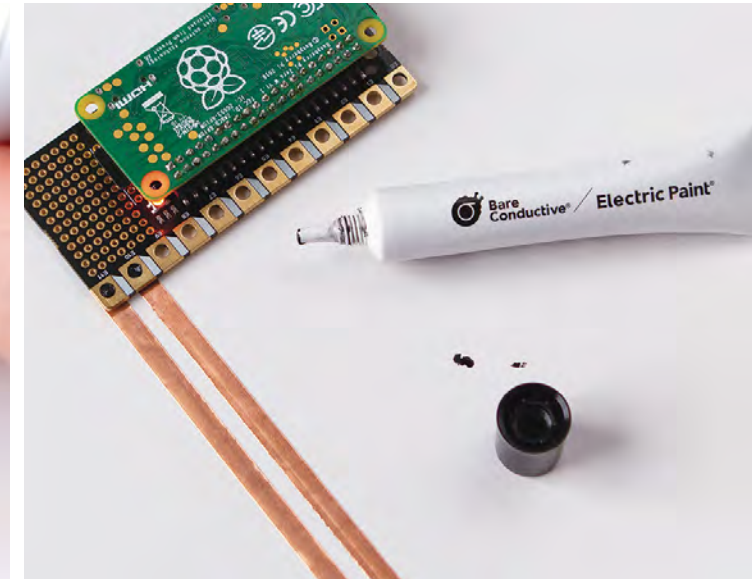
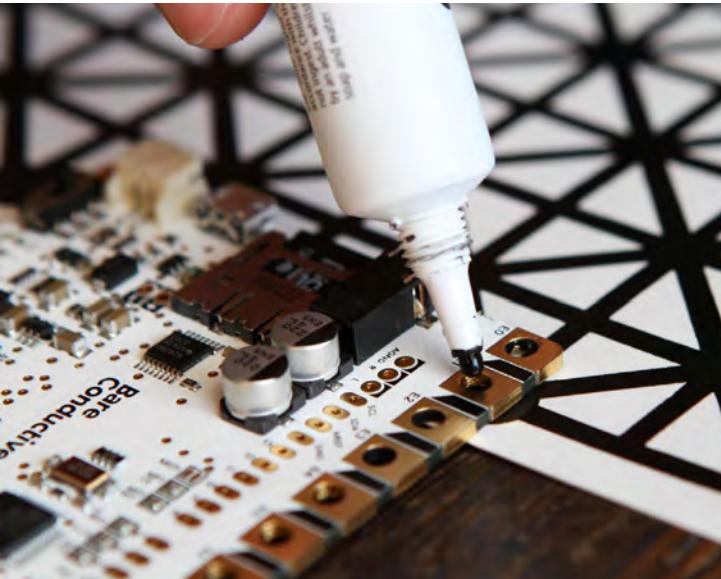
- Works on multiple surfaces
- Conducts electricity when dry
- Paint or draw
- Cold solder and repair devices
- Non-toxic and solvent free
- Water-soluble
- Seal with acrylic varnish
- Dries with air and at room temperature
- Works on multiple surfaces
- Dispenses up to 5m





## Electric Paint 10ml / SKU-0018

Create circuits with paint



### Create Small Circuits

**Electric Paint** allows you to create small circuits with LEDs and batteries. Create small scale artwork using lights and explore the fundamentals of electricity.

### Cold Solder With Paint

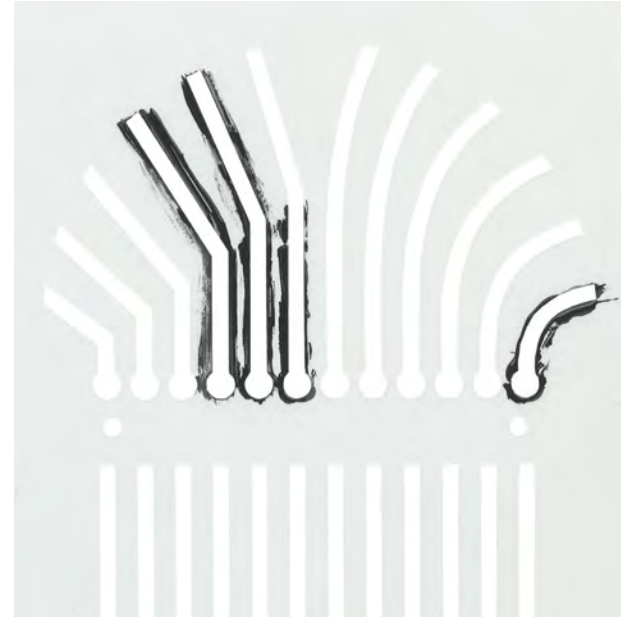
Cold soldering is a great alternative to using a soldering iron and all you need is the **Electric Paint 10ml** tube! Use **Electric Paint** to cold solder faults in circuits, for example repairing TV remotes.

### Combine With Our Hardware

**Electric Paint 10ml** is the perfect add-on for our hardware including: **Touch Baord**, **Pi Cap** and **Light Up Board**. The tube allows you to easily cold solder our boards to other conductive materials.

# Electric Paint 50ml / SKU-0216

Create sensors with paint



Paint or print sensors with electrically conductive paint.

**Electric Paint** is perfect conductive ink for painting or screen printing sensors. It can be applied like any other water-based paint using a paintbrush, and screen printed to create precise designs and patterns. **Electric Paint** is non-toxic, water-soluble, and air-dries at room temperature. Use alongside the Touch Board, Pi Cap, or Light Up Board to create high precision touch and proximity sensors.

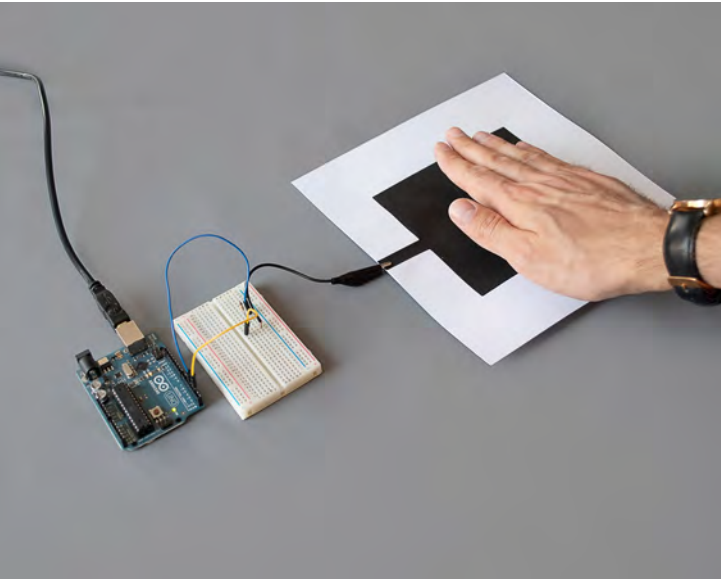
## Product Features

- Works on multiple surfaces
- Conducts electricity when dry
- Paint, stencil or screen paint
- Non-toxic and solvent free
- Water-soluble
- Seal with acrylic varnish
- Dries with air and at room temperature
- Works on multiple surfaces
- Screen print up to 0.8m<sup>2</sup>



# Electric Paint 50ml / SKU-0216

Create sensors with paint



## Prototype With Paint

If you are prototyping proximity sensing with **Electric Paint**, chances are that you will need to explore different patterns.

The **Electric Paint 50ml** jar provides enough paint for you to test out several ideas.

## Screen Print Sensors

Using the **Electric Paint 50ml** jar is ideal for screen printing, as the jar has the perfect form factor to access the paint.

## Combine With Our Hardware

**Electric Paint** is the perfect add-on for our hardware and the tube allows you to easily cold solder our boards to other conductive material.



# Electric Paint 1L / SKU-0308

Print large-scale sensors with paint



Paint or print large sensors with electrically conductive paint.

**Electric Paint** is the easiest and safest conductive ink available on the market. It dries at room temperature and can be used to create sensors on most non-conductive, non-hydrophobic surfaces, like paper, plastic, textiles, wood, walls, floors, etc.

The **Electric Paint 1L bucket** can be used with the Interactive Wall Kit, Touch Board, Pi Cap, or Light Up Board to create touch and proximity sensors. It is the perfect format for large volume screen printing projects, or for large scale installations.

## Product Features

- Works on multiple surfaces
- Conducts electricity when dry
- Paint, stencil or screen paint
- Non-toxic and solvent free
- Water-soluble
- Seal with acrylic varnish
- Dries with air and at room temperature
- Works on multiple surfaces
- Cover up to 16m<sup>2</sup>





## Electric Paint 1L / SKU-0308

Print large-scale sensors with paint



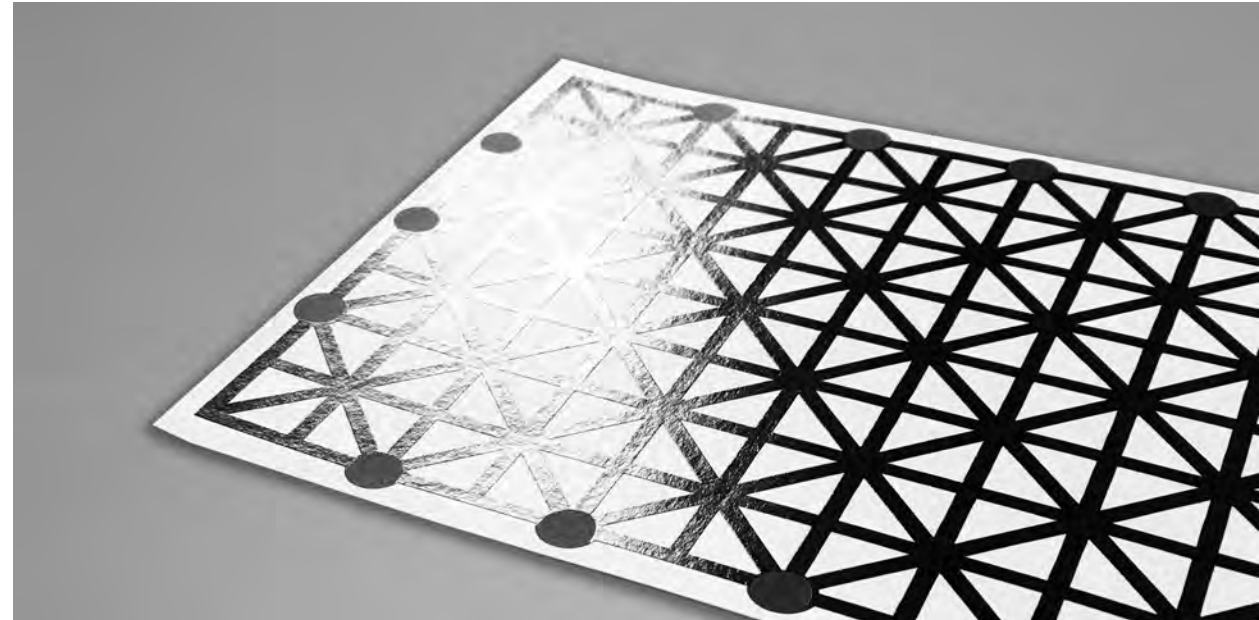
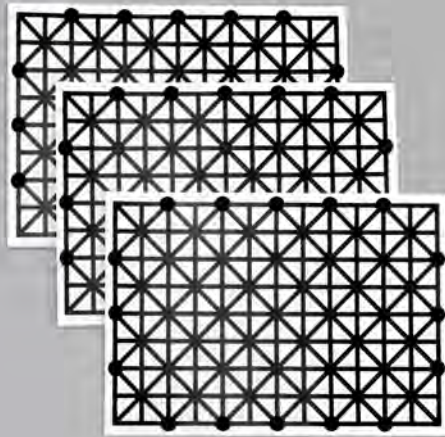
### Create Large Sensors

The **Electric Paint 1L** bucket is the perfect quantity for whatever your projects needs are, large enough for painting walls and murals. If you are creating an interactive wall, we would recommend using **Electric Paint 1L**.



# Printed Sensors Set of 3 / SKU-7000

Use paper as a sensor



Prototype your ideas with ready-to-use touch and distance sensors.

**Printed Sensors** are flexible paper sensors that have been screen printed using **Electric Paint**. They're perfect for quick testing, modifying, and integrating touch and proximity sensors. The sensors are sealed with a water-proof varnish to protect from humidity and smudging. 16 exposed access nodes allow for easy connection to capacitive electrodes, like those on the **Touch Board**, **Pi Cap**, and **Light Up Board**.

## Product Features

- 3 x A5 Printed Sensors
- Printed with Electric Paint
- Sealed with smudge-proof coating
- 16 exposed connection points
- Optimized pattern for sensitivity
- Touch and distance sensing
- Flexible and foldable

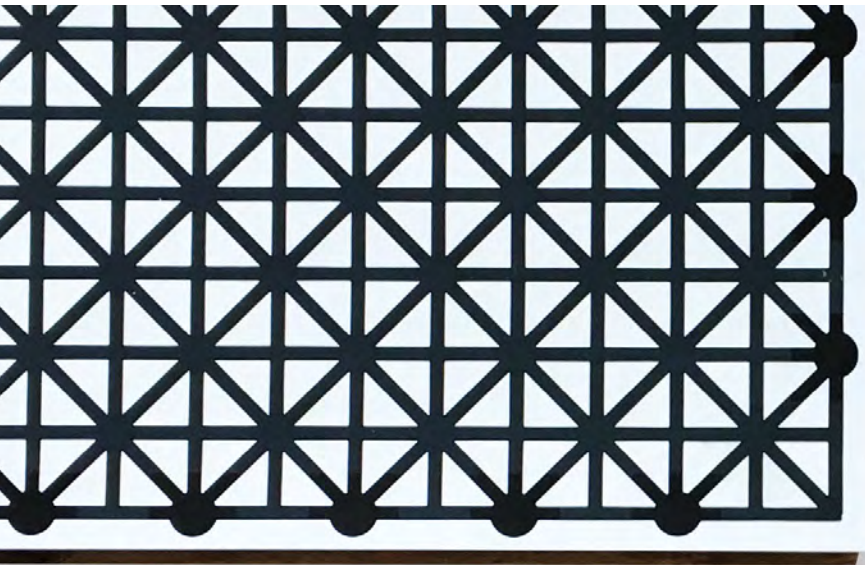




# Printed Sensors

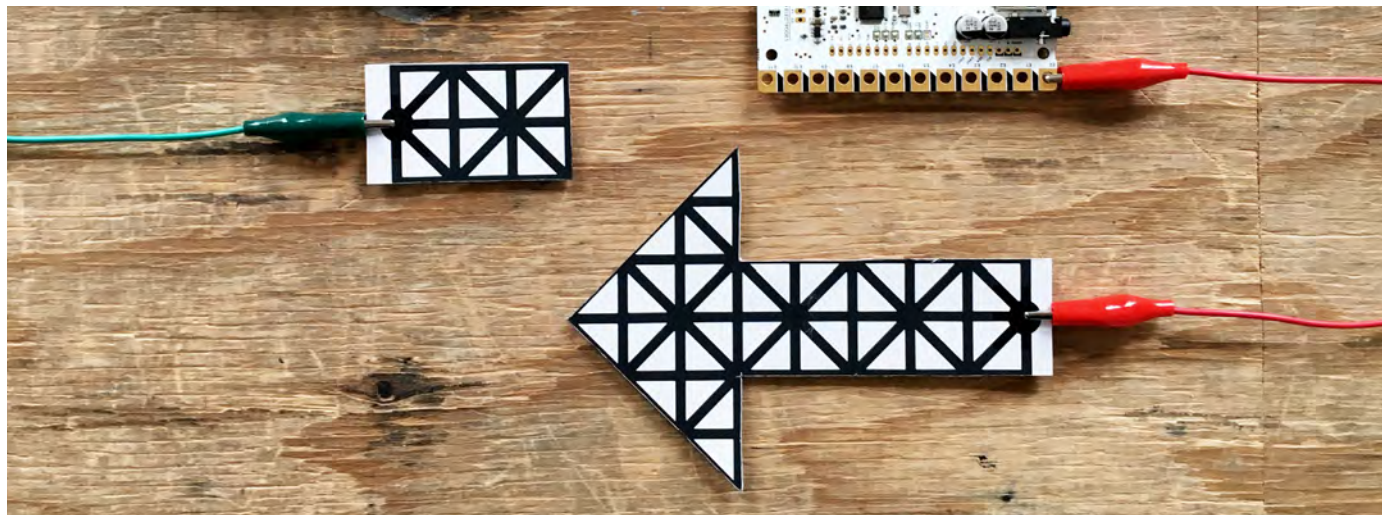
## Set of 3 / SKU-7000

Use paper as a sensor



### Explore Proximity Sensing

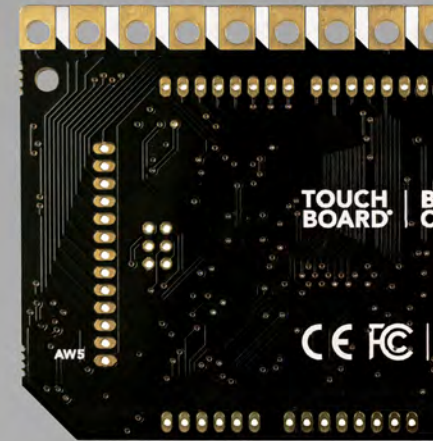
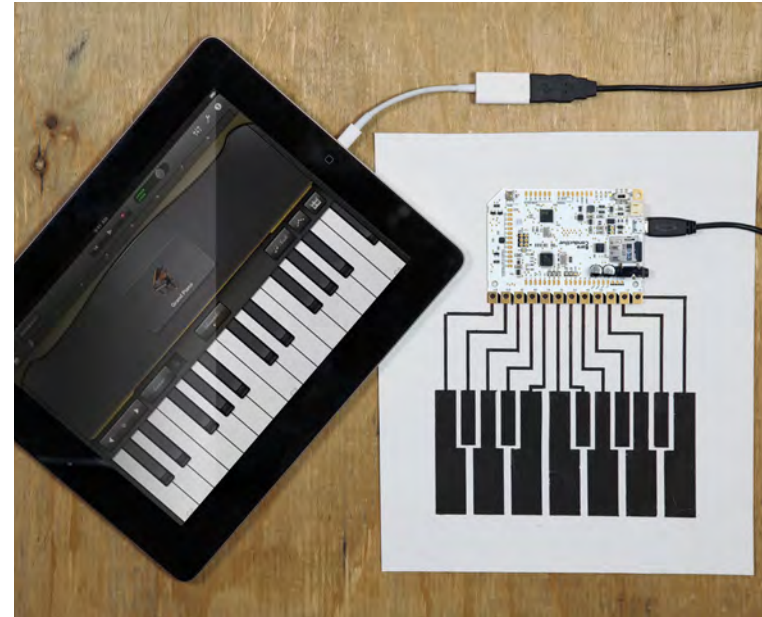
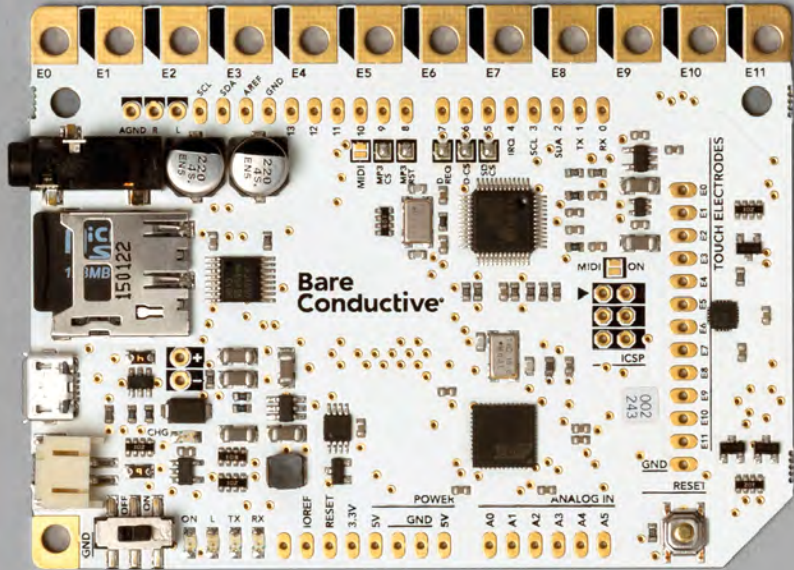
The **Printed Sensors'** unique pattern has been engineered for proximity sensing, allowing you to prototype with our hardware for optimal results.





# Touch Board / SKU-5013

Turn touch into sound, light or data



Add touch and proximity sensing to your interactive project with the **Touch Board**.

The **Touch Board** is a microcontroller board with 12 capacitive touch and proximity electrodes, so you can use it to turn any material or surface into a sensor. The **Touch Board** has an MP3 decoder and MIDI synthesizer and you can reprogram it using the Arduino IDE and a micro USB cable.

## Product Features

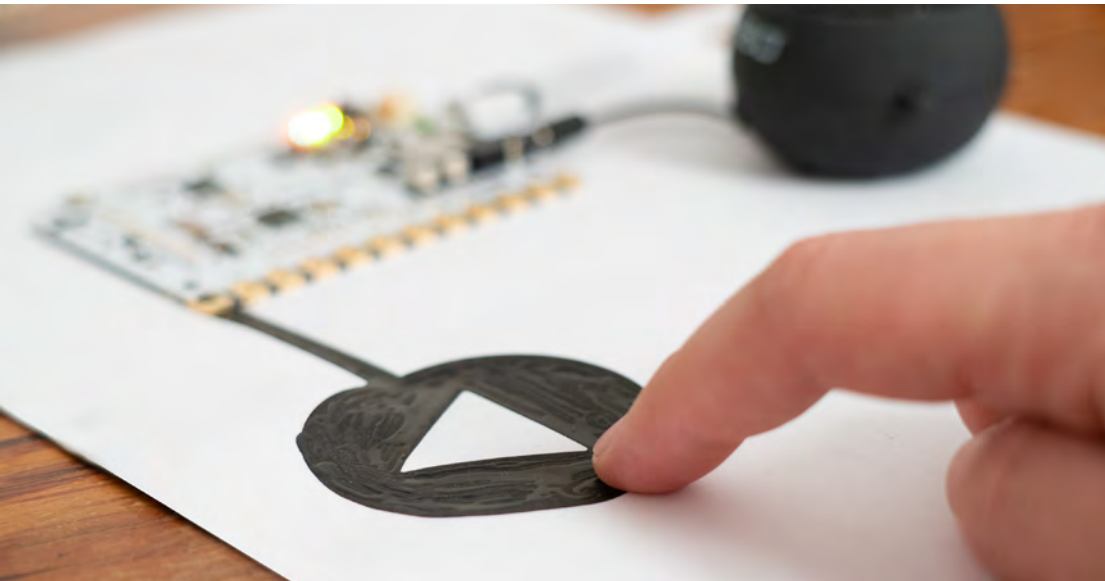
- Capacitive touch and proximity sensing
- Code and libraries for the Arduino IDE
- On-board MP3 decoder / MIDI synthesizer
- microSD\* card socket
- Standard 3.5mm audio jack
- USB HID compatible
- USB MIDI compatible
- USB serial compatible

\* microSD card included



# Touch Board / SKU-5013

Turn touch into sound, light or data



## Create Interactive Projects And Art

The **Touch Board** allows you to create interactive projects that include touch and proximity sensing. Your projects can range from a small DIY idea to a large-scale art installation.

## Prototype Capacitive Sensing

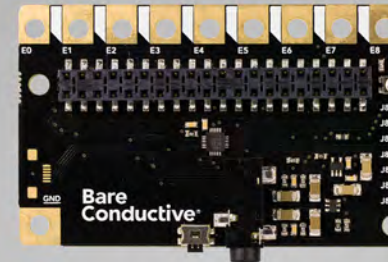
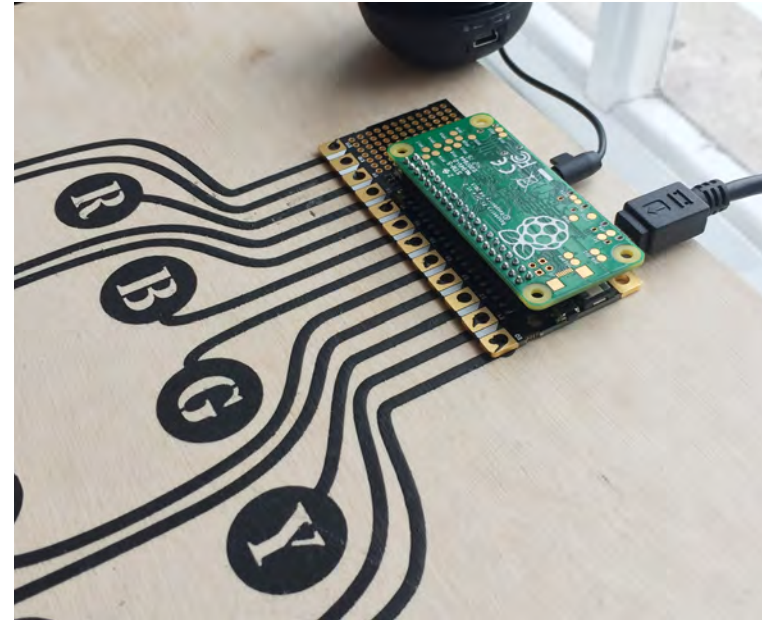
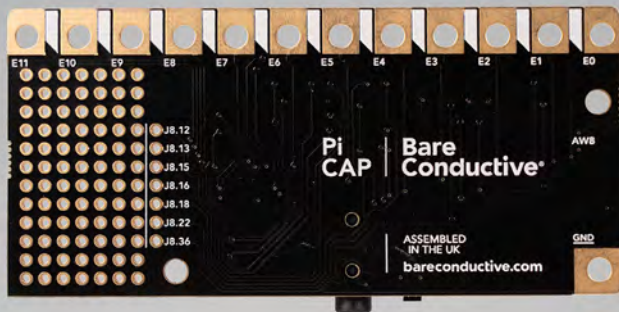
Use the **Touch Board** as a tool to prototype capacitive sensing. Design touch and proximity interfaces with the board and use either sound, data or light as an output.





# Pi Cap / SKU-6515

Turn touch into sound, light or data with your Raspberry Pi



Add touch and proximity sensing to your Raspberry Pi with the **Pi Cap**.

The **Pi Cap** is an easy-to-attach add-on board that brings capacitive sensing to your Raspberry Pi projects. It features 12 capacitive electrodes that can be used as touch or distance sensors. Extend each of these electrodes with **Electric Paint** or other conductive materials to create sensors on a wide range of substrates.

## Product Features

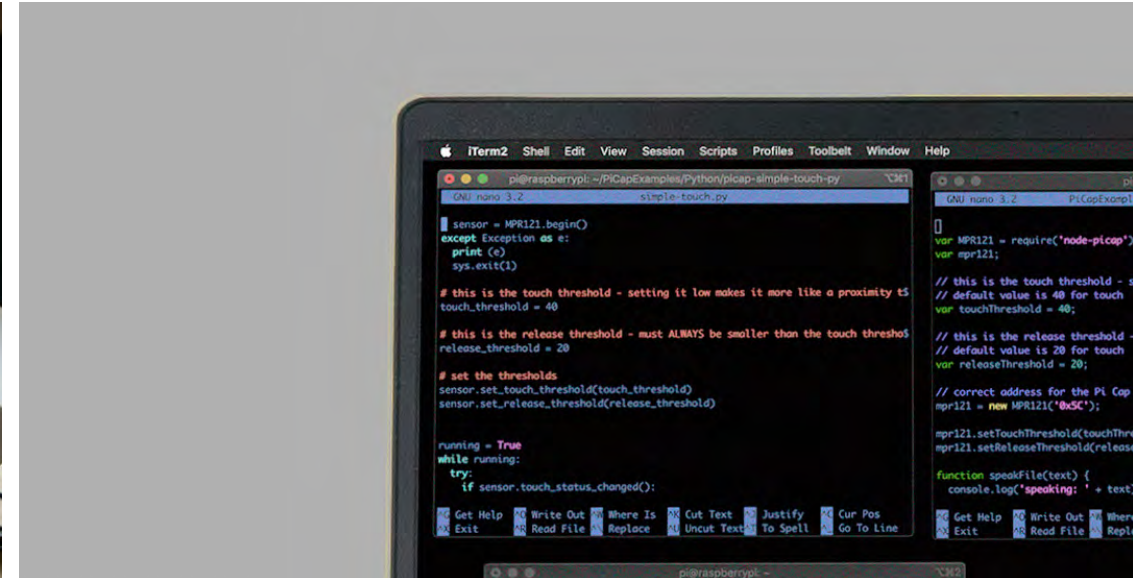
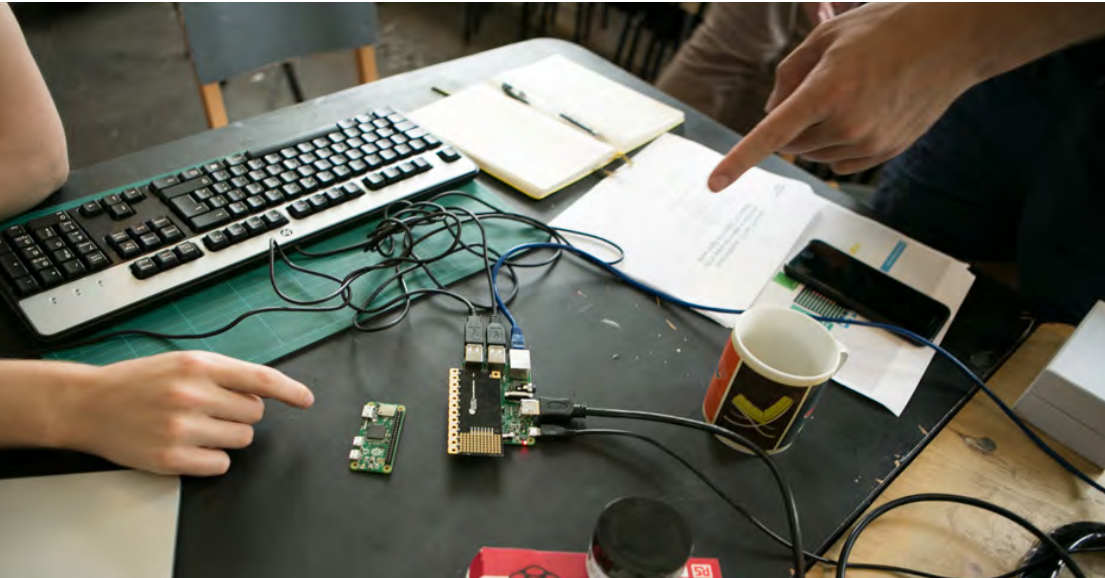
- Capacitive touch and proximity sensing
- Standard 3.5mm audio jack
- Python, C++ and Node.js libraries and examples
- User-programmable RGB LED and multi-function button
- Prototyping area with GPIO breakout
- Compatible with any Raspberry Pi that has a 40 pin GPIO connector





# Pi Cap / SKU-6515

Turn touch into sound, light or data with your Raspberry Pi



## Prototype Capacitive Sensing With Your Raspberry Pi

If you have a Raspberry Pi to hand, just add the **Pi Cap** to explore capacitive sensing. Simply attach the **Pi Cap** to the Pi, install the libraries and you're good to go!

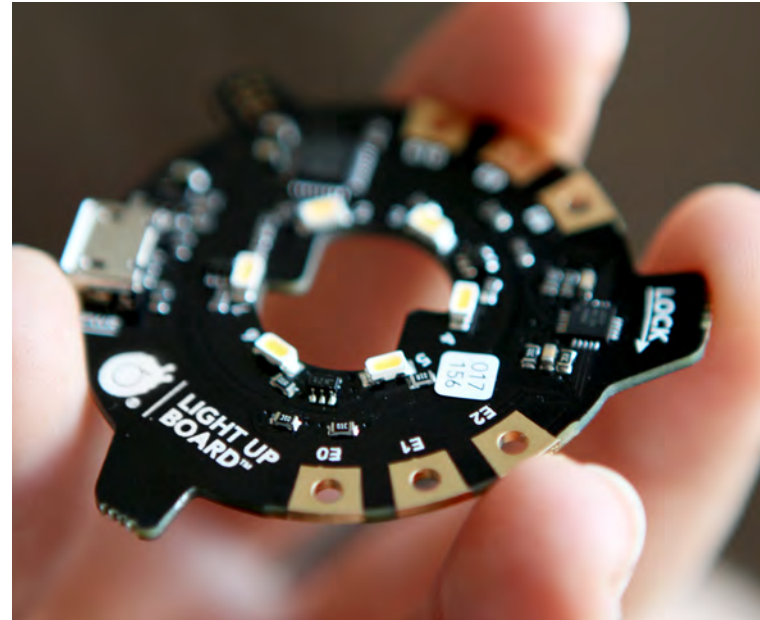
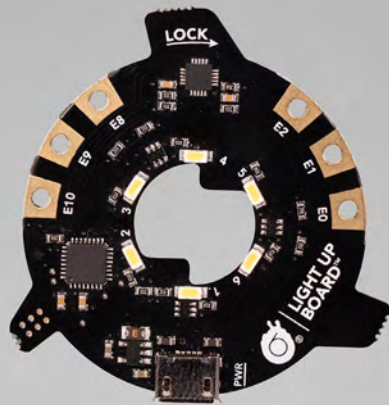
## Make Interactive Projects And Art With Your Raspberry Pi

With the **Pi Cap**, you can add touch and proximity to your interactive projects while keeping all the benefits and power of the Raspberry Pi. Your project can range from a small DIY piece to a large-scale art installation.



# Light Up Board / SKU-1312

Turn touch into light



Add light to your capacitive sensing projects with the **Light Up Board**.

The **Light Up Board** is a small circular PCB with LEDs that can be easily integrated into paper, card or plastic with a lock and twist mechanism. It has 6 capacitive electrodes that can be used as either touch or proximity light switches. Choose from its 6 different light modes: touch, dimmer, proximity, dice, candle, or spin.

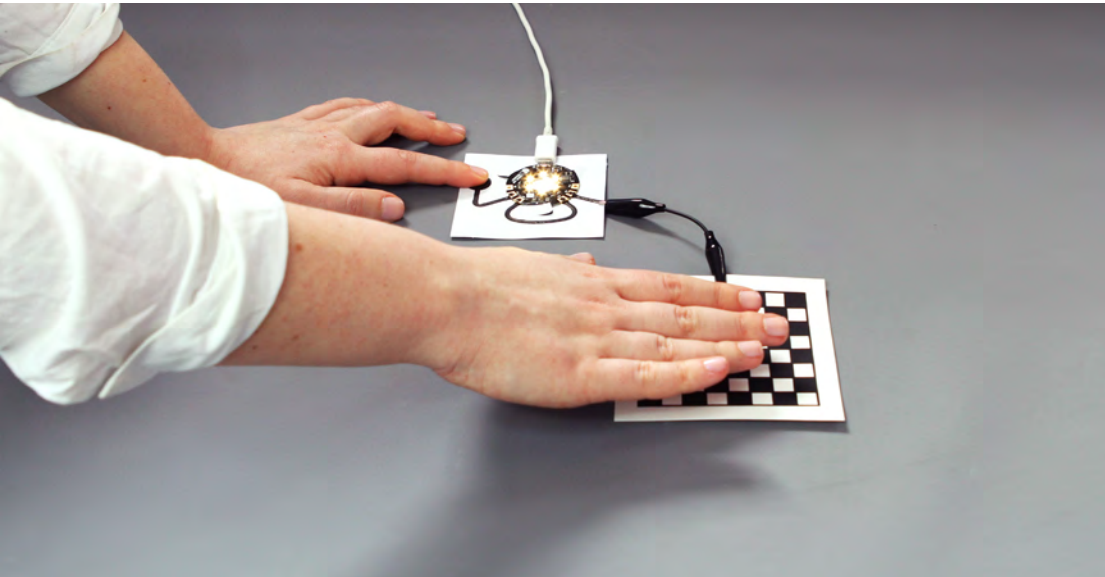
## Product Features

- Capacitive touch and proximity sensing
- Six white LEDs
- Six pre-programmed modes
- Easy-to-twist locking mechanism
- Powered by micro USB
- No programming required



# Light Up Board / SKU-1312

Turn touch into light

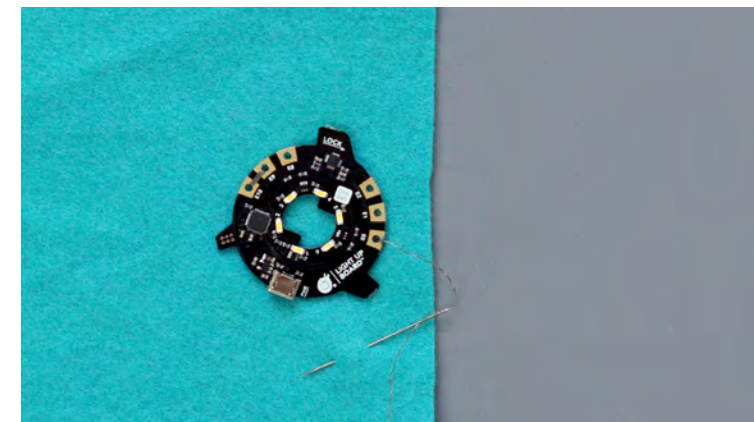


## Discover Capacitive Sensing

Discover how capacitive sensing can be used to trigger lights without any programming required. The **Light Up Board** has 6 different light modes that are accessed by connecting the board's sensors with **Electric Paint**.

## Add Light And Capacitive Sensing To Your Project

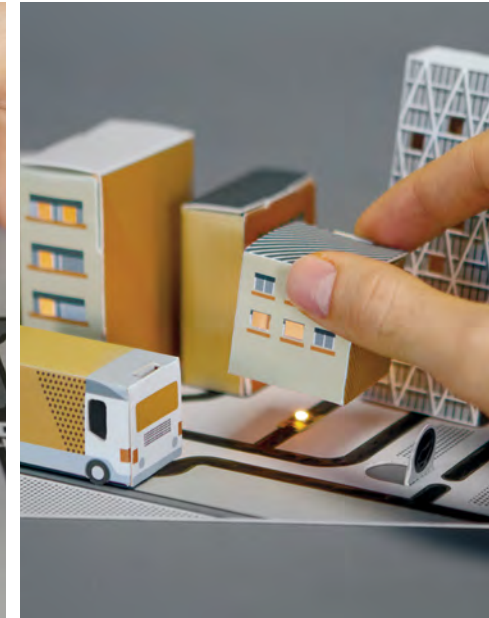
Use the **Light Up Board** to add lights to your project with touch or proximity sensing. The Board can be applied to a variety of surfaces including textiles.





# Electric Paint Circuit Kit / SKU-1510

Illuminate a miniature paper city



Build a paper city and paint a circuit with **Electric Paint**.

If **Electric Paint** is new to you, this is the perfect kit to get you started. Drawing your circuit is as easy as squeezing a tube, tracing a line, and connecting LEDs. This simple kit is the perfect introduction, with easy instructions and a clearly marked template. Add a battery to power the LED lights and bring your circuit city to life!

#### Included:

- 1 x Electric Paint 10ml Tube
- 5 x LED carrier board
- 1 x Card base template
- 6 x Assorted 3D objects to fold

*Not included: 9V battery*



# Electric Paint Circuit Kit / SKU-1510

Illuminate a miniature paper city



## Build A Circuit With Paint And LEDs

The **Electric Paint Circuit Kit** is a great gift for anyone that is looking for a quick and fun project to do at home. With the kit you get to build a small paper city that lights up and it includes all the materials as well as the instructions. Suitable for all ages, especially those that are interested

## Add An Engaging Activity To Your Workshop

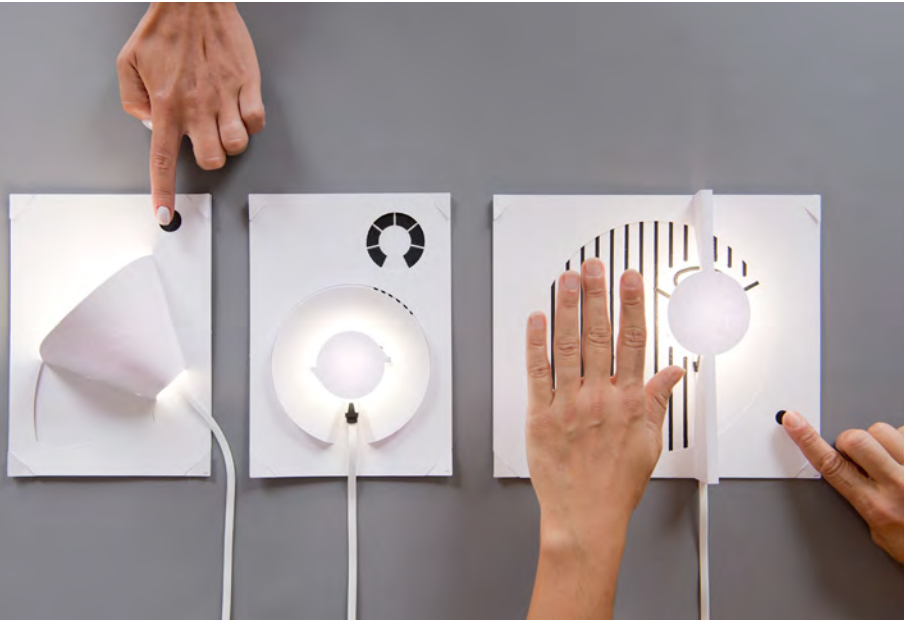
The **Electric Paint Circuit Kit** is a great way to add a simple and fun activity to your workshops, where participants get to learn about circuits and create a miniature paper city in the process.





# Electric Paint Lamp Kit / SKU-1107

Transform paper into light



Turn a piece of paper into a touch-sensitive lamp with **Electric Paint**.

Combine **Electric Paint** and the capacitive sensing of the **Light Up Board**, to create a beautiful paper lamp in three easy steps: paint, fold, and power on! No tools, no programming, no special skills required. Select from three templates, each with a unique interface to create either a touch, dimmer or proximity lamp.

## Included:

- 1 x Light Up Board
- 1 x Electric Paint 10ml tube
- 1 x Micro USB Cable
- 1 x Touch lamp template
- 1 x Dimmer lamp template
- 1 x Proximity lamp template
- 1 x Instruction test sheet

*Not included: Power supply*





# Electric Paint Lamp Kit / SKU-1107

Transform paper into light



## Create 3 Paper Lamps

The **Electric Paint Lamp Kit** is a truly unique and engaging activity. Not only do you have three touch sensitive lamps you can choose from, you can even take it further by customising the lamp shades.

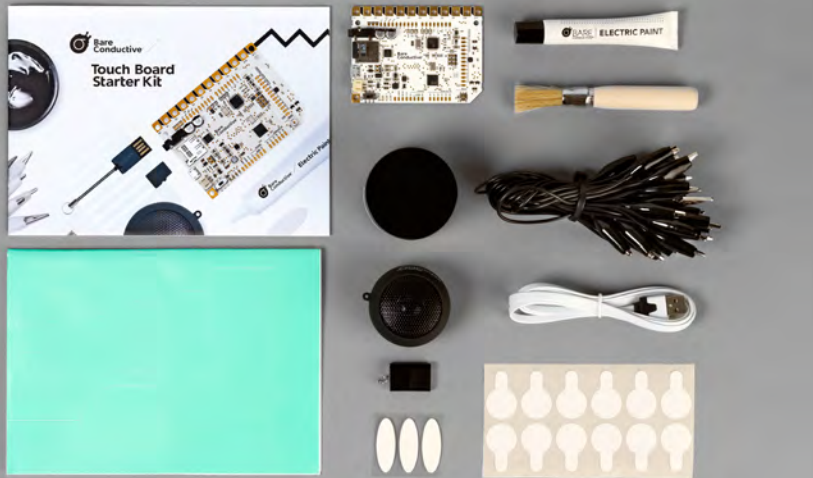
## Add An Engaging Activity To Your Workshop

The **Electric Paint Lamp Kit** is a great way to add an engaging activity to your workshops, where participants get to make 3 different touch sensitive lamps.



# Touch Board Starter Kit / SKU-5235

Draw, paint, create, and get started with the Touch Board



Make your world interactive with three **Touch Board** projects.

The **Touch Board Starter Kit** is the best kit for beginners looking to make an interactive project. With a **Touch Board, Electric Paint**, essential components, and step-by-step instructions you'll have everything you need to turn any surface, object, or space into a sensor. No programming required!

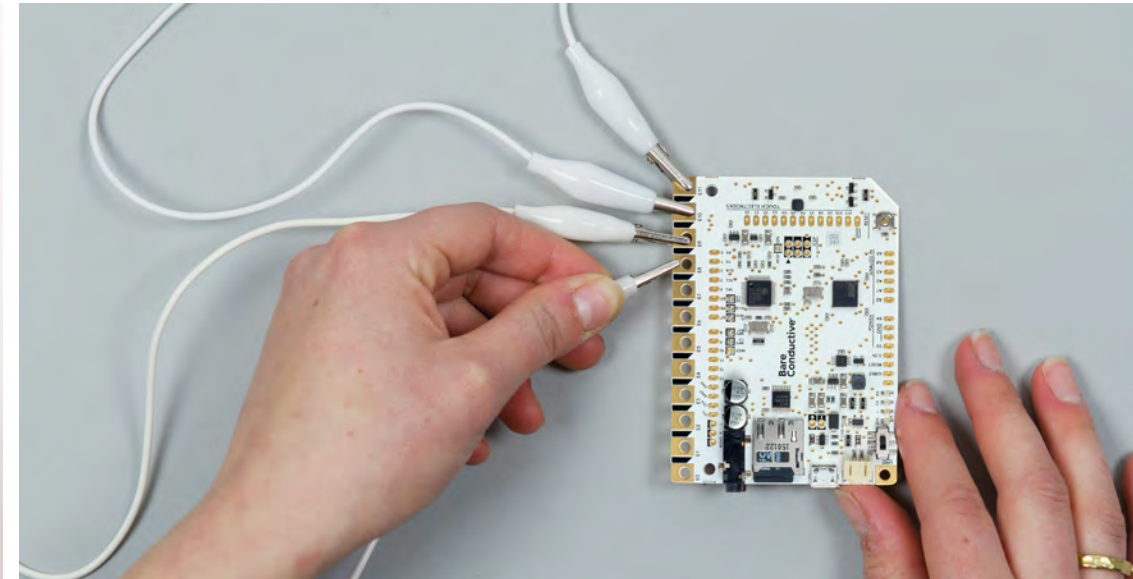
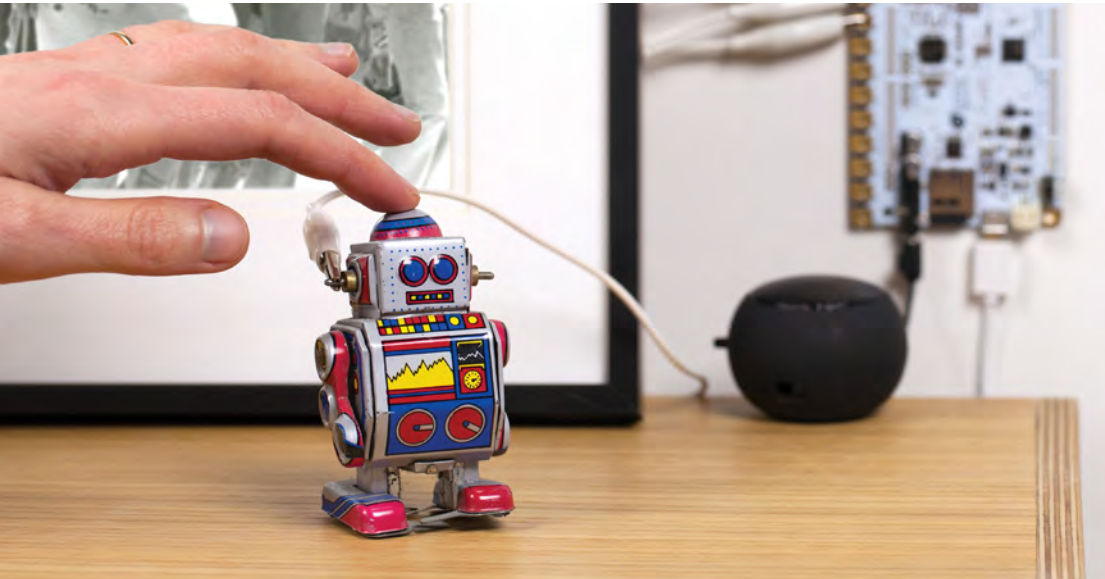
## Included:

- |                         |                                     |
|-------------------------|-------------------------------------|
| 1 x Touch Board         | 10 x Crocodile clips (colours vary) |
| 1 x Electric Paint 10ml | 1 x Stencil                         |
| 1 x Electric Paint 50ml | 1 x Stencil brush                   |
| 1 x Guidebook           | 12 x Sticky tabs                    |
| 1 x microSD card        | 3 x Velcro stickers                 |
| 1 x microSD card Reader | 2 x Paper cutouts                   |
| 1 x Micro USB cable     |                                     |
| 1 x Mini speaker        |                                     |



# Touch Board Starter Kit / SKU-5235

Draw, paint, create, and get started with the Touch Board



## Make 3 Capacitive Sensing Projects

The **Touch Board Starter Kit** is a great introduction to the **Touch Board** and capacitive sensing. The three projects included get you familiarised with the **Touch Board** and once you've grasped an understanding of it, create your own interactive project.

## Get Started With Capacitive Sensing

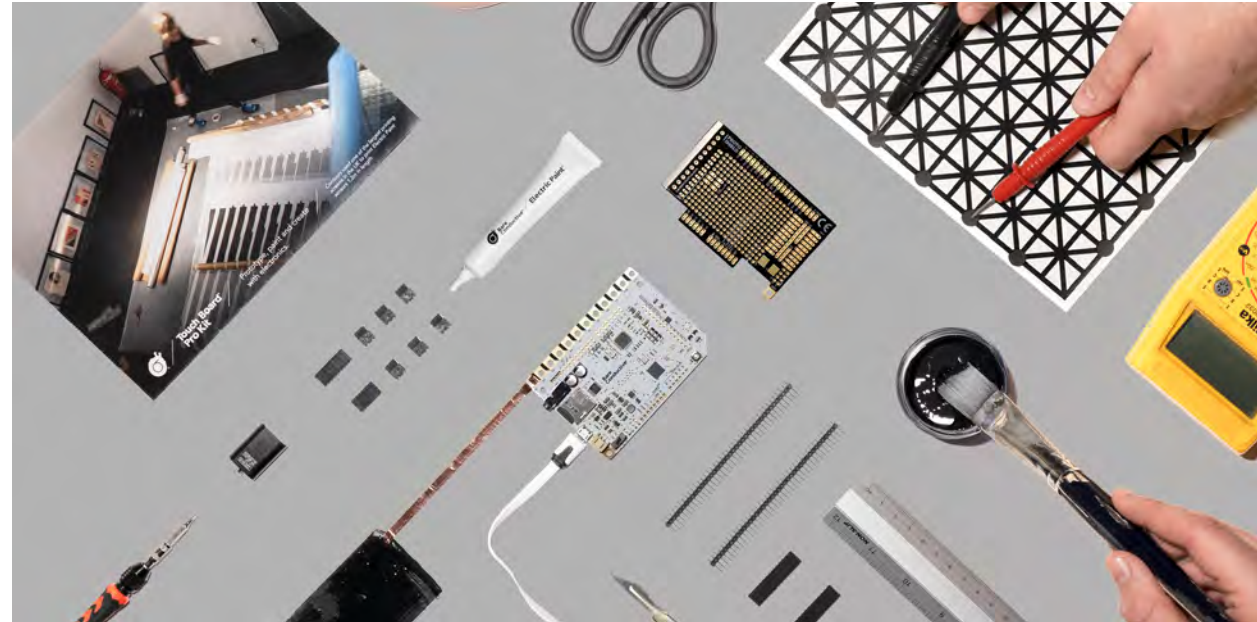
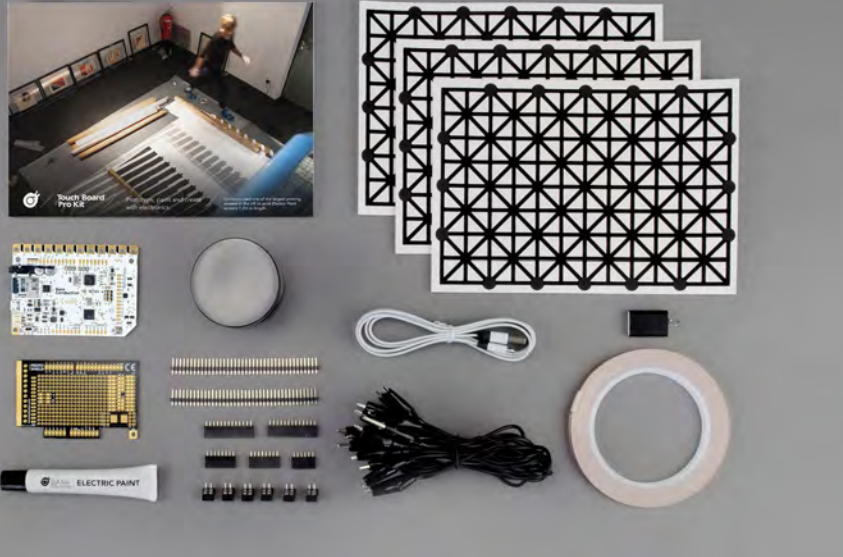
Capacitive sensing is all around us and with this kit you get to explore the technology. Using the power of the **Touch Board**, discover how capacitive sensing works by creating your own smart surfaces and objects.





# Touch Board Pro Kit / SKU-5303

Take your interactive project to the next level



Explore all the capabilities of the **Touch Board, Electric Paint,** and **Printed Sensors.**

The **Touch Board Pro Kit** contains everything to push the boundaries of the **Touch Board.** If you want to take your prototyping to the next level, then this kit is ideal for you. It includes all you need to make a variety of interactive projects, everything from proximity sensing to long-distance sensors. The **Touch Board Pro Kit** includes all the tools and resources to prototype your projects.

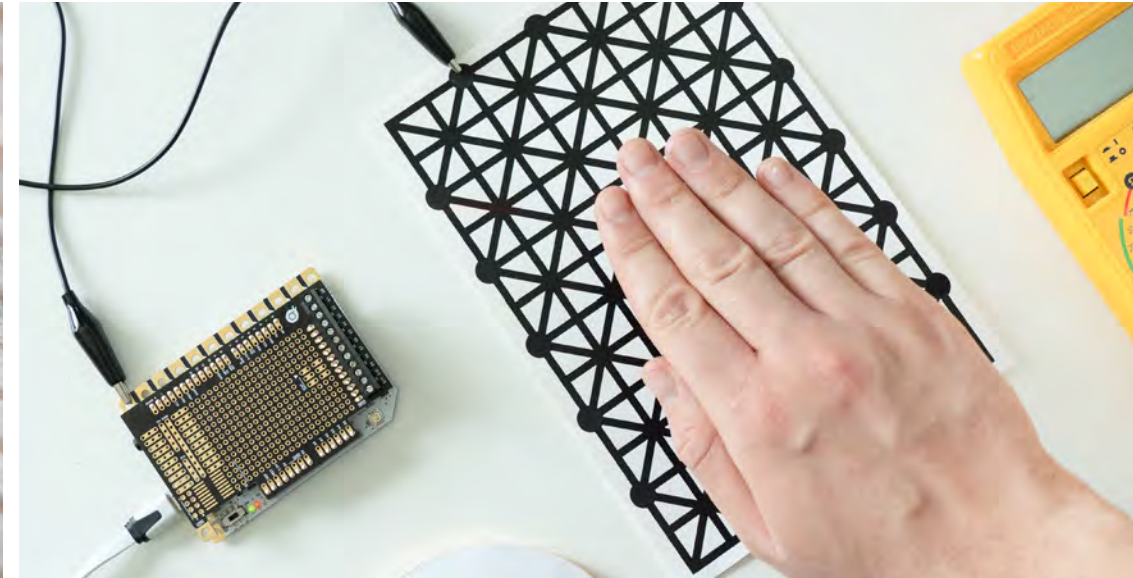
## Included:

- 1 x Touch Board
- 1 x Electric Paint 10ml
- 1 x Electric Paint 50ml
- 3 x Printed Sensors
- 1 x Touch Board Proto Shield
- 1 x Header kit
- 1 x 15m Copper Tape
- 1 x Resource guide
- 1 x microSD card
- 1 x microSD card reader
- 1 x Micro USB cable
- 10 x Crocodile clips (colors vary)



# Touch Board Pro Kit / SKU-5303

Take your interactive project to the next level

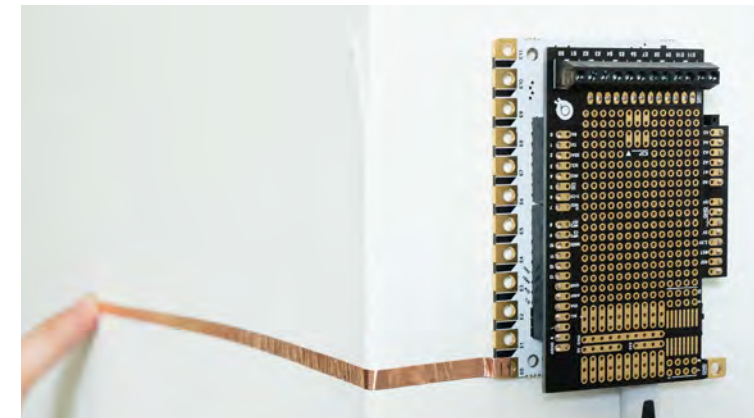


## Prototype Distance Sensing

Together with the **Proto Shield** and **Printed Sensors** you can take your **Touch Board** project further and fully explore the possibilities of distance sensing.

## Explore Interactive Electronics

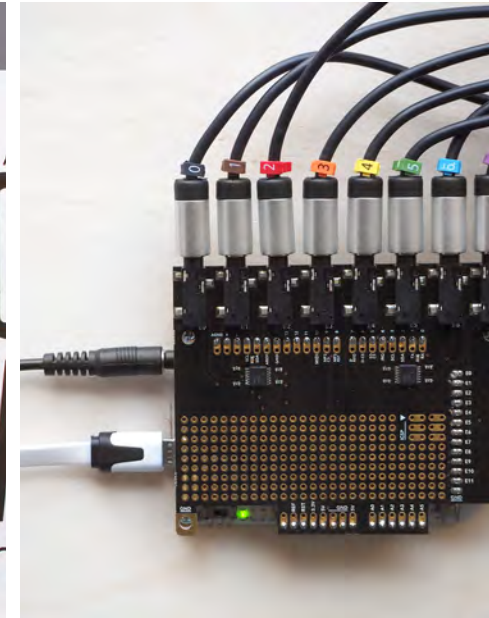
The **Touch Board Pro Kit** is the complete package for any interaction designer. Using the **Touch Board**, **Proto Shield** and **Printed Sensors**, you can explore the capabilities of capacitive sensing and it's relationship to your own work and interactive projects.





# Interactive Wall Kit / SKU-5426

Ready-to-install interactivity for professional installations, powered by the Touch Board



Create robust and reliable interactive walls and murals with the **Interactive Wall Kit**.

The **Interactive Wall Kit** comes with all the tools you need to build an interactive wall up to 10m x 10m with 12 touch or proximity points. The kit is supported with a range of online tutorials and resources that provide all the information you need to plan your display.

## Included:

- |                            |                             |
|----------------------------|-----------------------------|
| 1 x Touch Board            | 50 x Cable management clips |
| 1 x Electrode Shield       | 1 x Cable marking set       |
| 12 x Electrode Pads        | 1 x microSD card            |
| 12 x Shielded cables       | 1 x microSD card reader     |
| 42 x Fixing screws         | 1 x Micro USB cable         |
| 1 x Interactive Wall Guide |                             |





# Interactive Wall Kit / SKU-5426

Ready-to-install interactivity for professional installations, powered by the Touch Board



## Create A Sound Mural

If you want to create a robust, interactive sound mural, where sensors respond to touch and proximity with sound and music, then the **Interactive Wall Kit** is the perfect tool for you.

## Projection Mapping Installations

You can use the **Interactive Wall Kit**, to add immersive projection mapping. By adding a computer and a projector to the installation, every interaction triggers an animation.



# Electric Paint Circuit Pack / SKU-1527

Illuminate miniature paper cities



The **Electric Paint Circuit Pack** introduces groups to the basic principles of a circuit through a fun and instructive activity.

The **Electric Paint Circuit Pack** comes with die-cut paper templates and easy instructions to learn how switches and circuits work. Step-by-step instructions guide you through painting a circuit with **Electric Paint**, applying LEDs, and creating a simple switch. A 45- 60 minute activity for up to 30 participants.

#### Included:

- 10 x Electric Paint 10ml
- 10 x Die-cut templates (60 parts)
- 1 x Instructions sheet
- 5 x LED carrier packs (25 LEDs)

*Not included: 9V batteries*





# Electric Paint Circuit Pack / SKU-1527

Illuminate miniature paper cities



## Build Circuits With Paint And LEDs

The **Electric Paint Circuit Pack** is a perfect way to introduce students and participants into the world of electricity. By painting a circuit and combining LEDs and batteries, they will get a taste of how electricity works.

## Add Fun And Simple Activities To Your Workshop

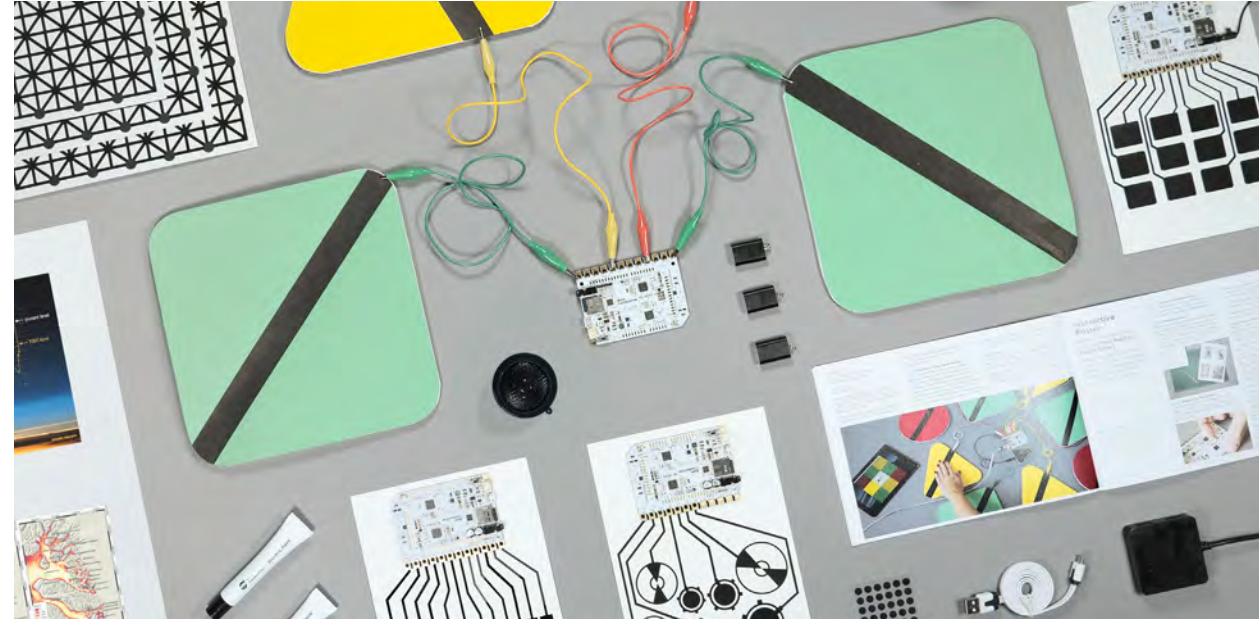
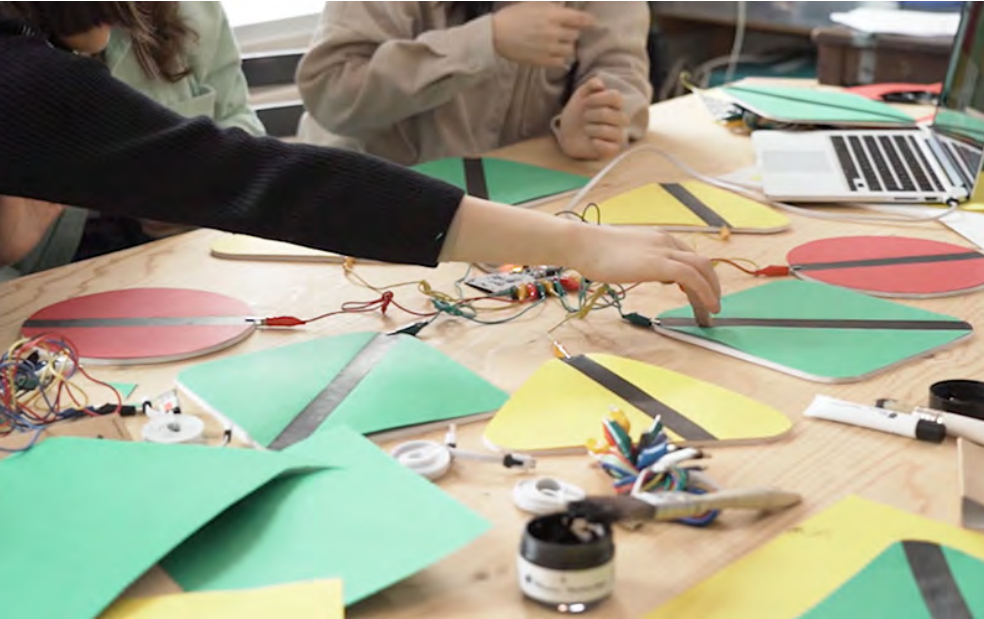
The **Electric Paint Circuit Pack** is a great way to add a simple, easy and engaging activity to your workshops. Participants get to learn about circuits and create a miniature paper city in the process.





# Interactive Workshop Pack / SKU-5433

Run workshops and discover the power of creative technology



Introduce design and electronics through three creative projects.

The **Interactive Workshop Pack** is the best resource available to anyone who wants to engage individuals from non-engineering backgrounds with electronics. The pack comes with everything you need to run 3 different workshop activities. Create musical instruments, game controllers, and interactive posters using **Electric Paint** and **Printed Sensors**, and the **Touch Board**.

#### Included in this kit\*

- 5 x Touch Board
- 4 x Electric Paint 50ml
- 5 x Electric Paint 10ml
- 6 x Printed Sensors
- 6 x Instrument Sensors
- 1 x Guidebook
- 1 x Sheet carbon dots
- 2 x USB hubs
- 5 x Mini speakers
- 5 x microSD cards
- 5 x microSD card readers
- 5 x Micro USB cables
- 6 x Velcro stickers
- 60 x Sticky tabs
- 50 x Crocodile clips (colour vary)



# Interactive Workshop Pack / SKU-5433

Run workshops and discover the power of creative technology



## Lead An Education Group Project

The three projects included with the **Interactive Workshop Pack** are designed for you to tailor your workshops around the skill level of the group. Follow the step-by-step guide's easy to follow instructions for a straight forward teaching plan, or design your own sessions.

## Discover Emerging Technologies

Smart surfaces are the future and capacitive sensing will bring us there. Use the features of the **Interactive Workshop Pack's** projects to show participants the capabilities of capacitive sensing technology. Whether they are creating musical instruments or integrating sensors into their posters, this pack offers an inspiring insight into future technology.







## **Get in touch for more information:**

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