



For creators

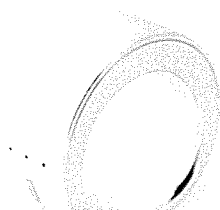
Log in



Art Comics Design Film Games Publishing Technology Discover

# Ring by logbar - Shortcut Everything

Ring  
Shortcut  
Everything



Wearable Input  
Device that lets  
you control  
anything. Gesture  
control, text  
transmission,  
payment, and  
more!

<http://logbar.com>

Created by

Logbar inc.

**5,161 backers** pledged  
\$880,998 to help bring  
this project to life.

 **Last updated** August 26, 2015



Ring : Shortcut  
Everything.

📍 [San Carlos, CA](#)    🔗 [Wearables](#)

**\$880,998**

**5,161**

# Story

Ring is like magic, allowing you to control anything you want, by wearing it on your finger. You can send texts, control home appliances, and even pay your bills — all at once and in a flash.

**[PRESS KIT HERE!](#)**

## As Featured On



[Time](#) - "This Ring Will Turn Your Finger Into a Magic, Gadget-Controlling Wand"



[Entrepreneur](#) - "With Bluetooth Ring, Control Your World With a Finger Twirl"



[Mashable](#) - "This Bluetooth Ring Is Like a Magic Wand on Your Finger".



[Fast Company](#) (Co.Design) - "A Ring That Lets You Control Pretty Much Anything By Writing In The Air".



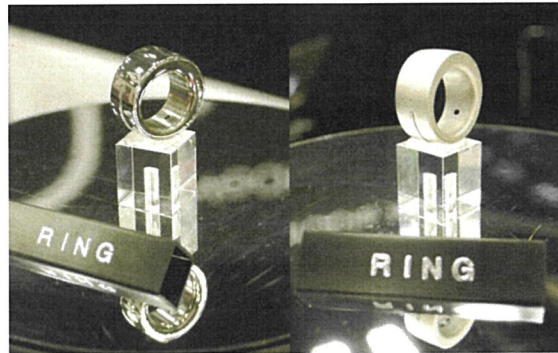
[Techcrunch](#) - "The Ring Input Device Puts Gesture Control And Home Automation On Your Finger..."

.



## **Video (37sec) *Ring in*** **SXSW Trade Show!**

We exhibited at the SXSW Trade Show in Austin, Texas from March 9 to 12th!



*Showed Two Different Materials*

## Four Features

### 1 Gesture control function



This function lets you control your home appliances and apps through gestures

### 2 Text transmission



Gesturing of letters in the mid air can be recognized as texts

### 3 Payment information transmission

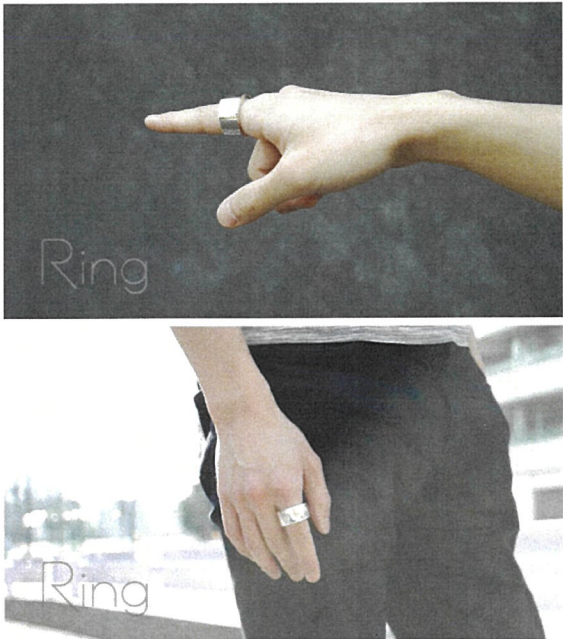


This function lets you finish settling your payment for various bills all in one action, by making a single gesture

### 4 Receive /Alert Function



You can detect incoming transmissions/alerts through built-in vibration and LED



# How to Use

Gestures can be completed in a few seconds

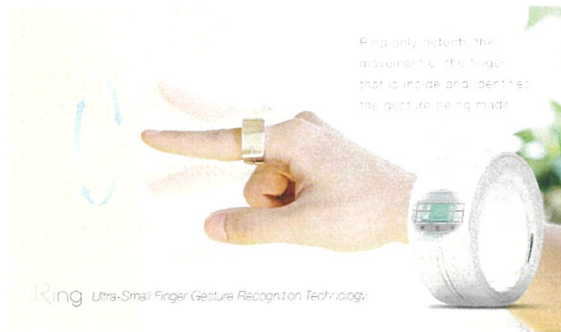
- 1

Wear Ring on your index finger.
- 2

Start gesturing by tapping on the touch sensor.
- 3

Hold your finger to end the gesture.

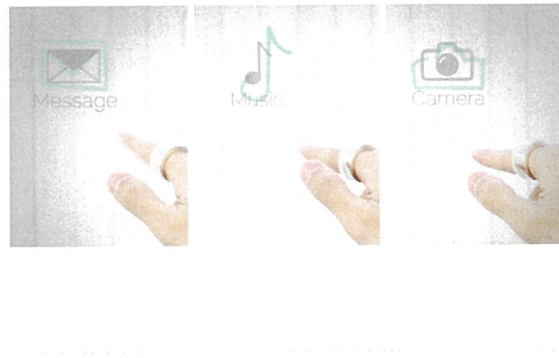
Ultra-Small Finger Gesture  
Recognition Technology



Ring only detects the movement of the finger that is inside and identifies the gesture being made. You can perform gestures regardless of time or place. There have been countless studies and development efforts spent on this technology to make the gesture recognition within Ring a reality. We were particularly focused on the improvement of the accuracy of recognition and power saving features, with Ring's development.

## Gesture Control

Each Application, has its own unique gesture mark, so when you want to use it, simply perform the designated action.



## Customized Gesture



## TEXT transmission

Utilizing Ring's precise letter recognition software (Ring Font), you can type letters anywhere, anytime. Now you can use Twitter, Facebook, or other social network features, send texts, and even change the station on your TV, by performing a simple gesture. Ring is also compatible with Google Glass and smart watches, giving you

greater control over how you use it.



### Ring Font

Ring Font allows you to type more precisely, by simply following its stroke order.

a b c d e f g h i j k l m n  
o p q r s t u v w x y z  
0 1 2 3 4 5 6 7 8 9

### Receive /Alert Function



## How to connect with other devices

You can connect directly or using  
the Hub.

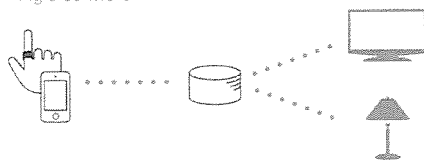
### Direct Paring

If a device is compatible with Ring's software,  
you can directly connect.



### Hub Paring

Hub is a routing device which enables you to send  
an infrared or Wi-Fi signal to any compatible device,  
allowing you to connect to home appliances  
which were previously incompatible  
with Ring's software.



*※There are many hub devices which  
allow to send and receive a Wi-fi or  
infrared signal to other devices. These  
can be used with Ring's Hub Paring  
feature.*

## Payment Gateway Solutions

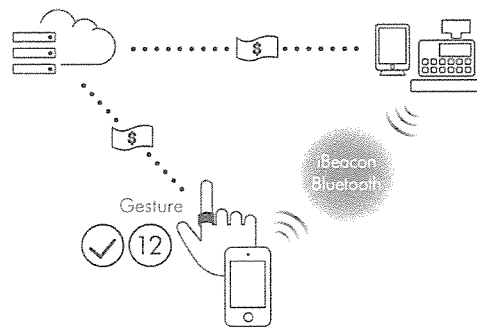
Using GPS or iBeacon, you can quickly and conveniently make payments at participating retail stores, restaurants, and even person-to-person.

### - **Direct Number Payment**

Allows you to make payments directly, by tracing the number with your finger.

### - **Checkmark Payment**

Quickly make payments by gesturing a checkmark.



## From the Prototype to Today

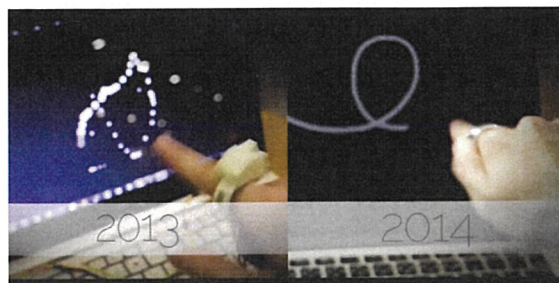
For the first phase, we focused on creating sensors that can detect

even the smallest movement, in order to enhance the accuracy of our gesture recognition software.



*The stages of Ring's development*

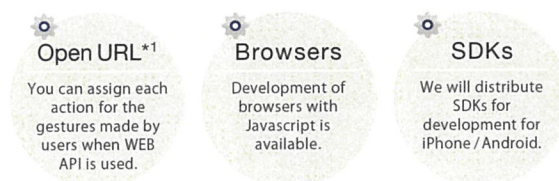
During the second phase, we worked on the selecting which functions were necessary for Ring. The use of a touch sensor and standard vibration technology resulted in higher power consumption, resulting in quick battery loss. With that in mind, we devised various ideas in accordance with the specifications needed to reduce consumption and became particularly focused on the miniaturization of Ring, for the final phase of development. We have reviewed the designing processes over and over and have designed software for storing all Ring's necessary functions into a small device.



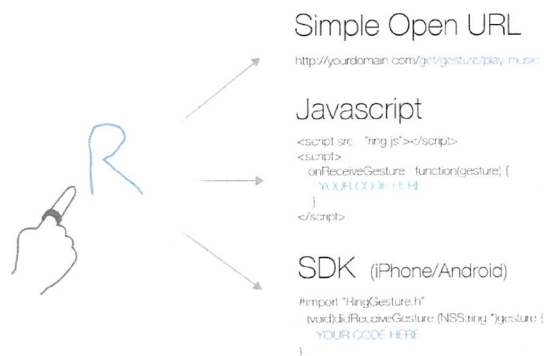
*Improvement of gesture recognition technology from 2013 to 2014*

## For Developers

We have three types of development methods available for developers.



\* 1: The user makes "o" gesture > the location information is saved on your in-house service.



Try Gesture Maker

Development here!

Ring Store

Ring Store

You can download Apps for the Ring at Ring Store



Specifications



Ring Size

We are planning to provide 6 different sizes for Ring and will contact you to inquire which size you desire.



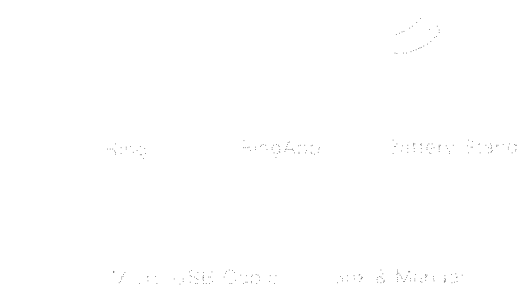
## Compatibility

To activate and use Ring, you need to have one of following devices:

- iPhone / iPad / iPod Touch (iOS7 or higher ver)
- Android (ver 4.4 or higher ver)
- Windows Phone (coming soon)
- Ring Hub (coming soon)



## Ring Package Contains



\*Ring has a rechargeable battery  
(During our initial testing phases,

Ring's battery contains approximately 1000 charges. However, a more accurate number will be provided before the end of this campaign.)

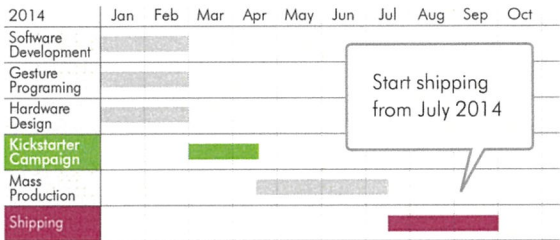
\*Mobile Battery Stand with Micro USB Cable (Provides up to five charges for Ring, before needing to be recharged.)



## Present State

We have currently reached stage where we have completed the programming of our gesture analyzation technology and hardware designs and are ready for mass production. We have also

completed all of the product and electronic circuit designs, in addition to having selected the factory which will manufacture the device. We are planning to use the funds generated through this campaign to begin mass production, advertising, general expenses, and to cover the costs of international licensing.



We will begin shipping in **July 2014** to United States, Europe, Japan, and China.

Pledges and Rewards

|                                                                            |                                                                                                                                                                       |         |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Special Thanks!                                                            |  Thanks!                                                                             | \$5     |
| Supporter Special                                                          |                                                                                      | \$25    |
| Very early bird <i>All gone</i>                                            |                                                                                                                                                                       |         |
| Early bird <i>All gone</i>                                                 |                                                                                                                                                                       |         |
| Get One Ring<br><small>*includes battery, stand and MicroUSB cable</small> |                                                                                      | \$185   |
| Developer Special                                                          |  +  | \$2500  |
| Partner Special                                                            |  +  | \$10000 |

※Shipping is free within the US

※Add \$15 USD for shipping outside of the US

About our Team

Since 2013, Logbar inc. has been working on the development of Ring and engaging in all processes such as software, hardware, and product designs, along with its partners. We members with hardware experience, such as those who have worked in R&D for small watch sensors, as well

as those with experience designing IC Card-based security systems. The hardest part in Ring's development process was the programming algorithm for gesture recognition — most of our time was spent devising how to develop the software needed to recognize gestures on the Ring device, while reducing power consumption and improving efficiency.

We won first prize at the  
**TechCrunch** Tokyo 2013 Startup Battle



**TC** TechCrunch

#### From Founder

After our victory at the TechCrunch Battle 2013 in Tokyo, many people asked me, "Is this real?" "How could something like this be possible?" I've been a programmer for five years, and my team has experience designing everything from small watch sensors to IC card-based security systems. I have no doubt about our possibility, and I am proud to say that we are ready for the next step!



Logbar Inc.  
CEO  
Takuro Yoshida

## Risks and

# challenges

The first challenge we encountered was the miniaturization and development, in order to market this product. We have been working on these things, which were considered impossible — within the realm of the common belief in the hardware industry — to prove that they can certainly be possible.

Because Ring is a very small and delicate product, issues with excessive power consumption caused by small errors in designs and delayed assembly emerged. Since hardware development can be confronted with these issues, during mass production, we had to carefully design its electronic circuits and select components based on the thorough consideration of the mass production processes.

Our biggest challenge, however, was by far, this campaign. We want to

deliver this product to everyone —  
making something that never existed  
before, and deliver it properly.  
We have been working on this  
preparation to the best of our ability,  
to take this new leap forward, and  
what we need now is the  
encouragement and support from  
backers.

As you are all aware, wearable  
devices are attracting worldwide  
attention; however, there are not yet  
products that can drastically change  
our lives, in the way that Ring does,  
which are currently available on the  
market. This is an unknown domain,  
where the market for wearable  
devices has not yet been  
established, and that is why we  
firmly believe that we can provide an  
unprecedented and fulfilling  
experience, like no other, through  
the Ring project. Let's drive this new  
market, together!

## Risks

## Funding period

Feb 27 2014 - Apr 4  
2014 (36 days)

[Learn about accountability on  
Kickstarter](#)

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n ...**

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left •...

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