# iToudai (BLE + NFC Beacon)

iToudai integrates Bluetooth 4.1 (Bluetooth Low Energy, BLE) signal transmitter (iToudai beacon) with a smart phone App in order to provide an indoor presence system.

iToudai broadcasts signals continuously, like a lighthouse. Once the smart phones enter a iToudai's transmission radius, they immediately receive an ID number from iToudai. App then triggers designated events for this ID number, such as push notification, opening a web page or start downloading a file from the Internet.

I see 2 iToudai

Here I am !

Here I am !
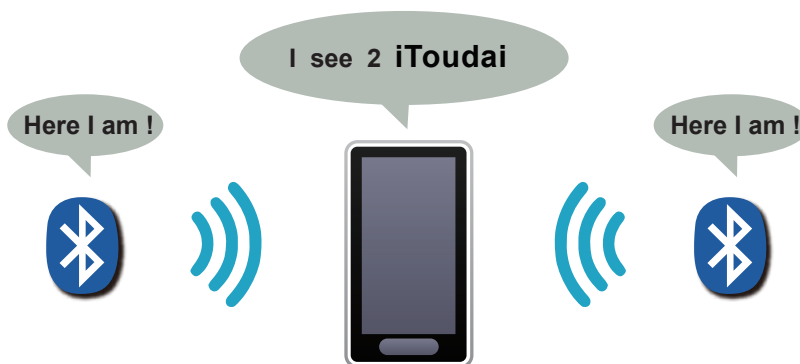
Application : Consist of locating and payment capability.

iToudai can be deployed for indoor navigation, mobile payment, shopping guide, visitor flow analysis.

● Retail :

Customers enter a store and receive instant promotional message of a product. It can also assist the store manager to realise its consumer behavior and collect flow data.

● Payment :

When a user enters or leaves a field, the user automatically initiates the payment.
For example, tickets for tourist attractions.

● Traffic :

Information passing, such as transfer guide, navigation, weather at airports, railway stations and subway.

● Home :

At home, iToudai can be used as an auto-switch for smart appliances.
In addition, iToudai can inform parents that their kids have returned home via children's mobile phone.
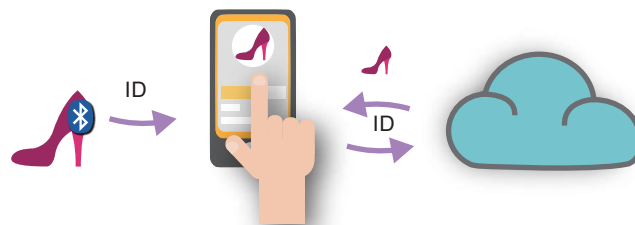
● Factory :

iToudai can be integrated into a plant site inspection structures and facilities, such as restricted area and equipment assembly line check point. It also helps to achieve 5S scope, inventory confirmation, quality assurance, security access control, power safety.

Benefit : Economical and Multi-purpose applications

iToudai is a low cost, high efficiency digital advertising tool for enterprises.

As long as the consumer has a smart phone with Bluetooth 4.1, they will receive the promotional news from the shop while they are shopping. Moreover, iToudai can help business further more, such as customer analysis. It allows enterprises to grasp the depth of consumer preferences and behavior, assist enterprises to carry out precision marketing, hence increase its revenue.

ID

ID

CAD-825

Dual function SOS distress button/ Parameter setting key

ABC Technology., Ltd

Name Teresa
No. 97756081
Card No. 118A-8-01511

悠遊卡公司
EasyCard Corp.

Slot-type design
(can be used for identification)
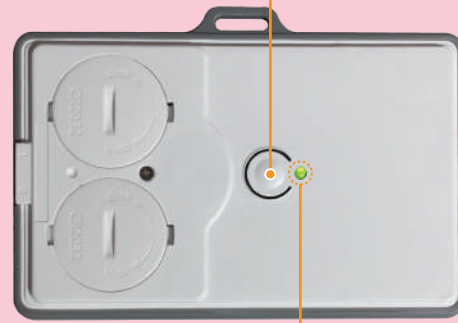
1. SOS receiver acknowledge lights.
2. Operation indicator

《 Specifications & Features 》

●BLE Beacon

Encrypted signal of high security and privacy. (Optional) iOS & Android.	
Internal Motion Sensor can be applied in specific needs.	
Battery status monitor (Optional)	5 levels indication (Status are sent back to cloud server)
Signal Preference	Transmission interval Daily timer : Working / sleeping cycle
Button Function	Long press to enable parameter configurations.
Specifications	Size : 90.1*57*5.7±0.5mm Slot size : 86*54*0.51~0.76mm (20~30mil) Weight : 26g (with battery) CAD-825 use CR2032 Battery x2
Battery detection	(Capable of encapsulating power in broadcast signals)
Power supply	Support power switch, which can be easy to turn off.

●Battery

Powered by one battery

Operating Time	CR2032 / 2 pieces (420mAh)
12H/day	850 days
24H/day	500 days

※ Approximated battery life time.
   (Condition : Interval 1000ms ; RF Power : 0dbm)
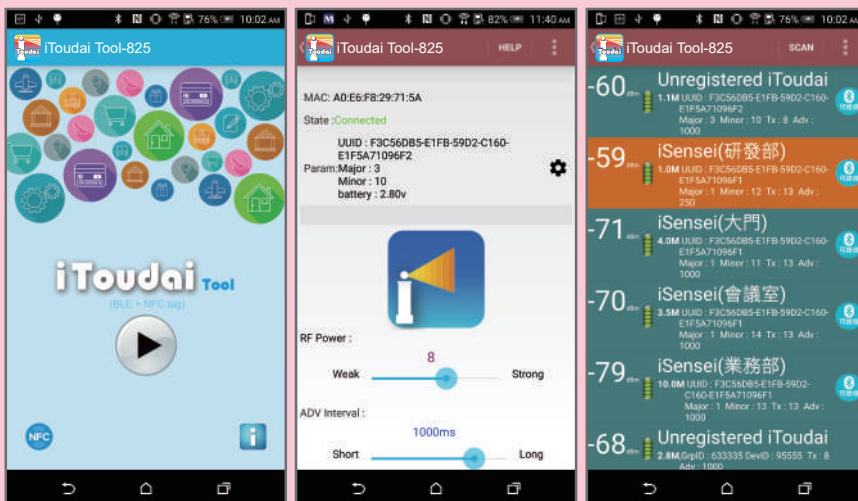
●Built-in NFC function (available separately)

《 iToudai Battery Checkpoint 》

iToudai Tool Features	CAD-825
For Android mobile	Android version 5+
Adjustable RF power	-40~4dbm
Adjustable broadcast interval	100ms~10s
Transmission distance	3~60m
Timer scheduling function	Yes

iToudai Electricity Observation Management

GrpID	DevID	Battery Power	Updated	Last replaced	Location
A00111	B00222	3.15V	2016-10-19 11:16:28	2016-10-01	TaichungT3
F0000A	00000A	2.90V	2016-10-21 15:51:55	2016-08-20	Sihu AKR
F00001	000001	2.58V	2016-10-21 15:59:57	2016-08-05	Taichung 5KM
000001	00000D	2.80V	2016-10-20 17:07:09	2016-08-20	TaichungT3
F00002	000009	3.02V	2016-10-20 17:05:18	2016-09-19	Sihu AKR
000000	000000	2.49V	2016-10-25 08:32:16	2016-07-13	Taipei BR4
00000F	000001	2.88V	2016-10-15 09:32:17	2016-02-23	Sihu AKR
000002	D00002	3.07V	2016-10-01 09:36:85	2016-01-25	Taipei 101

Specifications / Size	LAN-M-0462 Beacon Medium LAN Receiver	USB-0462 Beacon USB Receiver
photo		
Working power supply	POE / 9VDC	USB 5V
LED indicator	Yes	Yes
Received distance (conservative)	25m	40m
Alarm indicator	No	No
Physical dimension	Ø100 / D50 (mm)	W74.3 / H30 / D12 (mm)
Weight	108g	14g
Waterproof	No	No
With alarm buzzer	No	No
Use of the occasion / use	Classroom, lecture hall, attendance system	Plug and play, cloth with flexibility

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《 iToudai Tool-825 configuration app 》

ANDROID APP ON
Google play

iToudai Tool-825

iToudai Tool-825   HELP
MAC: A0:E6:F8:29:71:5A
State :Connected
UUID : F3C56DB5-E1FB-59D2-C160-E1F5A71096F2
Param:Major : 3
        Minor : 10
        battery : 2.80v
RF Power :
Weak ———8——— Strong
ADV Interval :
        1000ms
Short ————————— Long

iToudai Tool-825   SCAN
-60 Unregistered iToudai
     1.1M UUID : F3C56DB5-E1FB-59D2-C160-E1F5A71096F2
     Major : 3 Minor : 10 Tx : 8 Adv : 1000
-59 iSensei(研發部)
     1.0M UUID : F3C56DB5-E1FB-59D2-C160-E1F5A71096F1
     Major : 1 Minor : 12 Tx : 13 Adv : 250
-71 iSensei(大門)
     4.0M UUID : F3C56DB5-E1FB-59D2-C160-E1F5A71096F1
     Major : 1 Minor : 11 Tx : 13 Adv : 1000
-70 iSensei(會議室)
     3.5M UUID : F3C56DB5-E1FB-59D2-C160-E1F5A71096F1
     Major : 1 Minor : 14 Tx : 13 Adv : 1000
-79 iSensei(業務部)
     10.0M UUID : F3C56DB5-E1FB-59D2-C160-E1F5A71096F1
     Major : 1 Minor : 13 Tx : 13 Adv : 1000
-68 Unregistered iToudai
     2.8M GrpID : 633335 DevID : 95555 Tx : 8 Adv : 1000

iToudai Tool
(BLE + NFC tag)

| Enter password → Configuration |

Tool for adjusting Beacon's ID's, signal strength, signal frequency and etc.

Basic functions

1) Beacon's signal strength and proximity indicator.
2) Beacon's battery status display.
3) Beacon's filter.
4) Cloud data transmission.
5) UUID, Major, Minor modification.
6) ADV interval and TX power configuration.
7) Display Beacon's battery status.
8) Scheduling time and switch.
9) Vibration wake-up time and switch.

(※ All specifications & features are subject to change without notice)