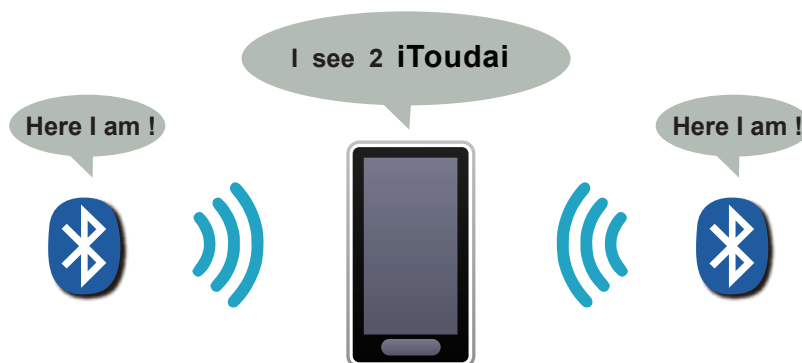# iToudai (BLE Beacon)

iToudai integrates Bluetooth 5.0 (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.

For example, the following scenario :

● 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.
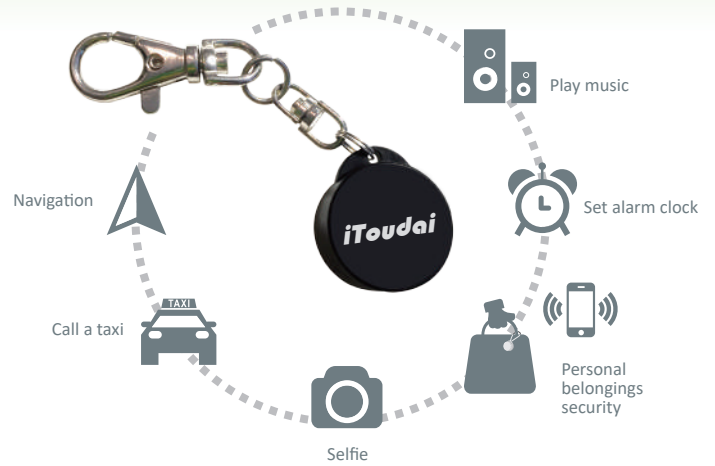
ID

ID

台灣日旭科技股份有限公司
CANNEX TECHNOLOGY

KRT-825

LED panic button

Front   Back

Key-ring with a small button, make your life more convenient .

Play music

Navigation

Set alarm clock

Call a taxi

Personal belongings security

Selfie

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iToudai Battery Checkpoint

iToudai Tool Features	KRT-825
For Android mobile	Android version 8+
Adjustable RF power	Yes (with 13 levels of strength)
Timer scheduling function	Daily operating time schedule
Transmission distance	3~20m
Password setting	Yes
Adjustable advertment interval	Yes

iToudai Battery Checkpoint

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 SKM
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	25m
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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Specifications & Features

●BLE Tag

Encrypted signal. It's high security and privacy. (Optional / iOS & Android applies)	
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 • Work / sleep cycle(Daily start-time)
Button Function Description	• Short press / Long press : (Can be customized as required)
LED status indication	• Can be customized as required)
Waterproof	• Yes (IP56 class)
Specifications	• Size : Diameter 23.7/ thick 15(mm) Weight : 7g KRT-0462 use CR2032 battery

●Battery
Powered by one battery

Operating Time	CR2032(220mAh)
4H/day	336 days
8H/day	261 days
12H/day	203 days
24H/day	125 days

※ Approximate battery life (transmission interval 1000ms; RF Power : 0dbm) Different broadcast frequency/power will affect the battery life.

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iToudai Tool configuration APP

ANDROID APP ON
Google play

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 : 8
Weak ——— Strong
ADV Interval : 1000ms
Short ——— Long

-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

| 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.