Apple iBeacon User Guide

Release R1



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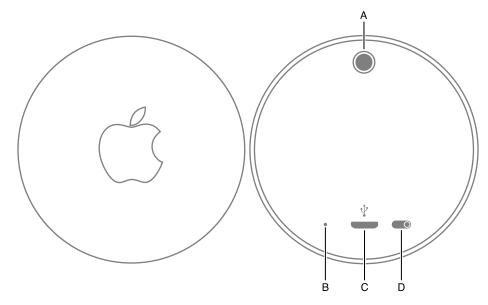
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Table 1-1Apple iBeacon LED behavior5

1. At a Glance

This guide describes Apple iBeacon (Model A1573).

1.1 Overview



1.1.1 Threaded Hole

The Threaded Hole (see figure highlight A) accepts a standard M5 screw and may be used to securely mount Apple iBeacon to other structures.

1.1.2 Status LED

The Status LED (see figure highlight B) is intended as a convenient indicator of operating mode and battery state. Under normal operating conditions, the Status LED is turned off to save power and remain inconspicuous.

 Table 1-1
 Apple iBeacon LED behavior

	Not Charging	Charging	Fully Charged
Off	Off	Red	Off

	Not Charging	Charging	Fully Charged
Normal	Off	Red	Off
Programming	Green	Red/Orange (Blink)	Green (Blink)

The Status LED will turn off and on at 500 ms intervals when Blink is specified along with a single color. When two colors are specified, the LED will alternate between the two colors every 500 ms instead of between off and on states.

1.1.3 Micro-USB Receptacle

Plug a USB to Micro-USB cable into the Micro-USB Receptacle (see figure highlight C) and connect Apple iBeacon into a USB power adapter to charge.

1.1.4 Slide Switch

The Slide Switch (see figure highlight D) has 3 possible positions:

- Off
- On
- Momentary

Apple iBeacon will enter Programming mode when the Slide Switch is moved from the On position to the Momentary position and held there for a minimum of 3 seconds. The Slide Switch may be released after Apple iBeacon has entered this mode.

1.2 Accessories

The following accessories are not included with Apple iBeacon and must be purchased separately:

1.2.1 USB power adapter

Use any Apple USB power adapter to power Apple iBeacon and charge the battery. The Apple 5W USB Power Adapter is recommended.

1.2.2 USB to Micro-USB cable

Use any standard USB to Micro-USB cable to connect Apple iBeacon to a USB power adapter to charge.

2. Getting Started

2.1 Charging

Apple iBeacon has an internal, lithium-ion rechargeable battery. The best way to charge the Apple iBeacon battery is to connect Apple iBeacon to a power outlet using the not-included USB to Micro-USB cable and Apple USB power adapter.

2.2 Normal Mode

When the Slide Switch is in the On position, the Apple iBeacon will be visible to iOS apps that work with iBeacon, using the configuration that has been set by the Apple iBeacon programming app.

2.3 Programming Mode

To program Apple iBeacon's settings, put the Apple iBeacon into Programming mode using the Slide Switch and then run the Apple iBeacon programming app on another Apple device.

3. Safety, Handling, and Support

Note: Failure to follow these safety instructions could result in fire, electric shock, or other injuries, or damage to Apple iBeacon or other property. Read all the safety information below before using Apple iBeacon.

3.1 Handling

Handle Apple iBeacon with care. It is made of plastic and has sensitive electronic components inside. Apple iBeacon can be damaged if dropped, burned, punctured, or crushed, or if it comes in contact with liquid. Don't use a damaged Apple iBeacon, such as one with a damaged enclosure, as it may cause injury.

3.2 Repairing

Don't open Apple iBeacon and don't attempt to repair Apple iBeacon by yourself. Disassembling Apple iBeacon may damage it or may cause injury to you. If Apple iBeacon is damaged, malfunctions, or comes in contact with liquid, contact Apple or an Apple Authorized Service Provider.

3.3 Cleaning

Clean Apple iBeacon if it comes in contact with anything that might cause stains - such as dirt, ink, makeup, or lotions. To clean:

- Disconnect all cables and turn Apple iBeacon off (slide the Slide Switch to the Off position)
- Use a soft, lint-free cloth
- Avoid getting moisture in openings
- Don't use cleaning products or compressed air

3.4 Using connectors, ports, and buttons

Never force a connector into a port or apply excessive pressure to a button, because this may cause damage that is not covered under the warranty. If the connector and port don't join with reasonable ease, they probably don't match. Check for obstructions and make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

3.5 Charging

Charge Apple iBeacon with the USB to Micro-USB cable connected to an Apple USB power adapter (both available separately). Using damaged cables or chargers, or charging when moisture is present, can cause electric shock. When you use the Apple USB Power Adapter to charge Apple iBeacon, make sure that the AC plug or AC power cord is fully inserted into the adapter before you plug it into a power outlet.

3.6 Operating temperature

Apple iBeacon is designed to work in ambient temperatures between 32 and 95 degrees F (0 and 35 degrees C) and stored in temperatures between -4 and 113 degrees F (-20 and 45 degrees C). Apple iBeacon can be damaged and battery life shortened if stored or operated outside of these temperature ranges. Avoid exposing Apple iBeacon to dramatic changes in temperature or humidity.

3.7 Prolonged heat exposure

Apple iBeacon and the Apple USB power adapter (available separately) comply with applicable surface temperature standards and limits. However, even within these limits, sustained contact with warm surfaces for long periods of time may cause discomfort or injury. Use common sense to avoid situations where your skin is in contact with a device or its power adapter when it's operating or plugged into a power source for long periods of time. For example, don't sleep or place a device or power adapter under a blanket, pillow, or your body when it's plugged into a power source. It's important to keep Apple iBeacon and the Apple USB power adapter in a well-ventilated area when using or charging them. Take special care if you have a physical condition that affects your ability to detect heat against the body.

3.8 Radio frequency interference

Observe signs and notices that prohibit or restrict the use of electronic devices (for example, in healthcare facilities or blasting areas). Although Apple iBeacon is designed, tested, and manufactured to comply with regulations governing radio frequency emissions, such emissions from Apple iBeacon can negatively affect the operation of other electronic equipment, causing them to malfunction. Turn off Apple iBeacon to turn off the Apple iBeacon wireless transmitter when use is prohibited, such as while traveling in aircraft, or when asked to do so by authorities.

3.9 Explosive atmospheres

Do not charge or use Apple iBeacon in any area with a potentially explosive atmosphere, such as a fueling area, or in areas where the air contains chemicals or particles (such as grain, dust, or metal powders). Obey all signs and instructions.

4. Regulatory compliance information

4.1 FCC compliance statement

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.

Note: 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 to 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.

Important: Changes or modifications to this product not authorized by Apple could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product. This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

4.2 Canadian regulatory statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisé aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-3 (B)/NMB-3(B)

4.3 Europe — EU Declaration of Conformity

Apple Inc. hereby declares that this wireless device is in compliance with the essential requirements and other relevant provisions of the R&TTE Directive. A copy of the EU Declaration of Conformity is available online at http://www.apple.com/euro/compliance/.

Apple's EU representative is Apple Distribution International, Hollyhill Industrial Estate, Cork, Ireland.

CE

4.4 Japan VCCI Class B Statement

[V@]

この装置は、クラスB情報技術装置です。この装置は、家 庭環境で使用することを目的としていますが、この装置が ラジオやテレビジョン受信機に近接して使用されると、受 信障害を引き起こすことがあります。取扱説明書に従って 正しい取り扱いをして下さい。VCCI-B

5. Disposal and recycling information

Apple iBeacon must be disposed of properly according to local laws and regulations. Because it contains a battery, Apple iBeacon must be disposed of separately from household waste. When Apple iBeacon reaches its end of life, contact Apple or your local authorities to learn about recycling options.

The lithium-ion battery in Apple iBeacon should be replaced only by Apple or an Apple Authorized Service Provider, and must be recycled or disposed of separately from household waste. For information about battery recycling and replacement, go to http://www.apple.com/batteries/replacements.html. For information about Apple's recycling program, go to http://www.apple.com/recycling.

5.1 European Union — Disposal Information

The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Union Européenne — informations sur l'élimination

Le symbole ci-dessus signifie que, conformément aux lois et réglementations locales, vous devez jeter votre produit et/ou sa batterie séparément des ordures ménagères. Lorsque ce produit arrive en fin de vie, apportez-le à un point de collecte désigné par les autorités locales. La collecte séparée et le recyclage de votre produit et/ou de sa batterie lors de sa mise au rebut aideront à préserver les ressources naturelles et à s'assurer qu'il est recyclé de manière à protéger la santé humaine et l'environnement.

Europäische Union — Informationen zur Entsorgung

Das oben aufgeführte Symbol weist darauf hin, dass dieses Produkt und/oder die damit verwendete Batterie den geltenden gesetzlichen Vorschriften entsprechend und vom Hausmüll getrennt entsorgt werden muss. Geben Sie dieses Produkt zur Entsorgung bei einer offiziellen Sammelstelle ab. Durch getrenntes Sammeln und Recycling werden die Rohstoffreserven geschont und es ist sichergestellt, dass beim Recycling des Produkts und/oder der Batterie alle Bestimmungen zum Schutz von Gesundheit und Umwelt eingehalten werden.

Unione Europea — informazioni per lo smaltimento

Il simbolo qui sopra significa che, in base alle leggi e alle normative locali, il prodotto e/o la sua batteria dovrebbero essere riciclati separatamente dai rifiuti domestici. Quando il prodotto diventa inutilizzabile, portalo nel punto di raccolta stabilito dalle autorità locali. La raccolta separata e il riciclaggio del prodotto e/o della sua batteria al momento dello smaltimento aiutano a conservare le risorse naturali e assicurano che il riciclaggio avvenga nel rispetto della salute umana e dell' ambiente.

EU — Information om kassering

Symbolen ovan betyder att produkten och/eller dess batteri enligt lokala lagar och bestämmelser inte får kastas tillsammans med hushållsavfallet. När produkten har tjänat ut måste den tas till en återvinningsstation som utsetts av lokala myndigheter. Genom att låta den uttjänta produkten och/eller dess batteri tas om hand för återvinning hjälper du till att spara naturresurser och skydda hälsa och miljö.

5.2 Türkiye

Türkiye Cumhuriyeti: EEE Yönetmeligine Uygundur.

5.3 Brasil — Informações sobre descarte e reciclagem

O símbolo indica que este produto e/ou sua bateria não devem ser descartadas no lixo doméstico. Quando decidir descartar este produto e/ou sua bateria, faça-o de acordo com as leis e diretrizes ambientais locais. Para informações sobre substâncias de uso restrito, o programa de reciclagem da Apple, pontos de coleta e telefone de informações, visite http://www.apple.com/br/environment.

5.4 Latin America — Información sobre eliminación de residuos y reciclaje

X

El símbolo indica que este producto y/o su batería no debe desecharse con los residuos domésticos. Cuando decida desechar este producto y/o su batería, hágalo de conformidad con las leyes y directrices ambientales locales. Para obtener información sobre el programa de reciclaje de Apple, puntos de recolección para reciclaje, sustancias restringidas y otras iniciativas ambientales, visite http://www.apple.com/la/environment/.

5.5 **HE** China — Battery Statement

警告: 不要刺破或焚烧。该电池不含水银。

5.6 **HE** China — Environmental Protection Information

有毒或 有害物质	零部件		
	电路板	附件	
铅 (Pb)	Х	Х	
汞 (Hg)	0	0	
镉 (Cd)	0	0	
六价铬 (Cr, VI)	0	0	
多溴联苯 (PBB)	0	0	
多溴二苯醚 (PBDE)	0	0	

O:表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 规定的限量要求以下。

X:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 规定的限量要求。

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5.7 台灣 Taiwan — Battery Statement

警告:請勿戳刺或焚燒。此電池不含汞。

5.8 台灣 Taiwan — Recycling Information



5.9 Apple and the environment

At Apple, we recognize our responsibility to minimize the environmental impacts of our operations and products. For more information, go to http://www.apple.com/environment.

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