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MAGTEK iDynamo 6 Mobile Secure Card Reader Authenticator Installation Guide

iDynamo 6
Lightning Connector for iOS – PN 21087016/21
Secure Card Reader Authenticator
Quick Installation Guide
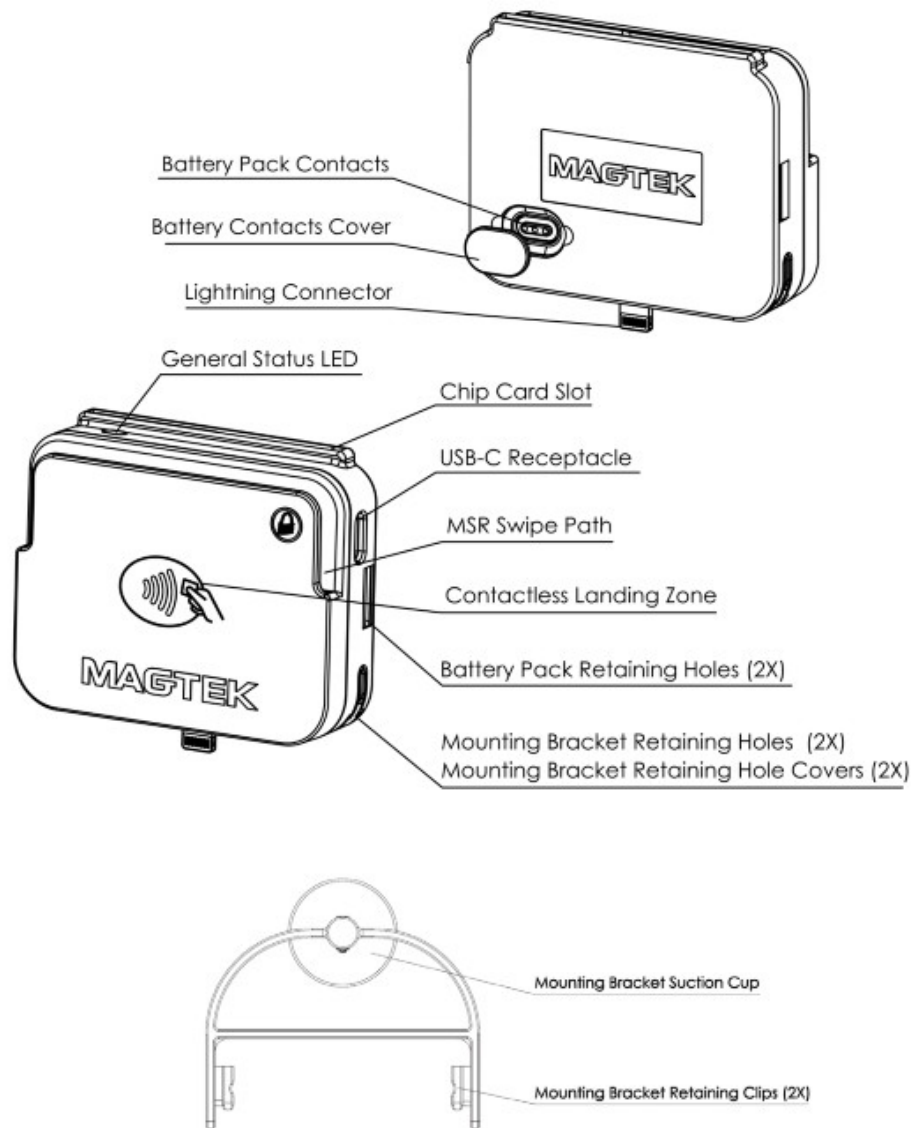**Setup and Installation**

Contents

iDynamo 6 Overview

iDynamo 6 is an SCRA with a magnetic stripe, EMV contact, and EMV / NFC contactless reading capabilities. To use the contactless capabilities, the device must be powered from a fully-powered USB-C port or must be fitted with the optional battery pack for handheld solutions. If the battery pack is not installed and the host does not provide fully powered USB-C, then the the contactless antenna will not turn on and iDynamo 6 will only read magnetic stripe and EMV contact cards.

Mounting Bracket

Battery Pack

iDynamo 6
SCRA

Made for iPhone 12 Pro Max, iPhone 12 Pro, iPhone 12, iPhone 12 mini, iPhone 11 Pro Max, iPhone 11 Pro, iPhone 11, iPhone XS Max, iPhone XS, iPhone XR, iPhone X, iPhone 8 Plus, iPhone 8, iPhone 7 Plus, iPhone 7, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPad Pro 10.5-inch, iPad Pro 12.9-inch (2nd generation), iPad Pro 9.7-inch, iPad Pro 12.9-inch (1st generation), iPad Air 2, iPad Air, iPad mini 4, iPad mini 3, iPad (5th and 6th generation).

Storage Temperature: 32°F to 113°F (0°C to 45°C) Major Components

Battery Pack Contacts

Battery Contacts Cover

Lightning Connector

General Status LED

Chip Card Slot

USB-C Receptacle

MSR Swipe Path

Contactless Landing Zone

Battery Pack Retaining Holes (2X)

Mounting Bracket Retaining Holes (2X)
Mounting Bracket Retaining Hole Covers (2X)

Mounting Bracket Suction Cup

Mounting Bracket Retaining Clips (2X)

Mounting Bracket

The versatile optional mounting bracket included with the device can be used to enhance mechanical stability. To install mounting bracket:

- Use a paper clip to slide the small covers out of the mounting bracket retaining holes on each side of iDynamo 6's housing. Set them aside for possible future use.
- Slide the mounting bracket's retaining clips into iDynamo 6's retaining holes until you feel them seat firmly in place.
- Make sure the mounting bracket suction cup is clean.
- Make sure the rear surface of the host is clean.
- After connecting iDynamo 6 to the host, press the mounting bracket's suction cup onto the rear surface of the host.

To uninstall the mounting bracket, reverse the steps above, including re-inserting the retaining hole covers. The mounting bracket resists slightly when being pulled out of the retaining holes but is designed to be removable without damage.
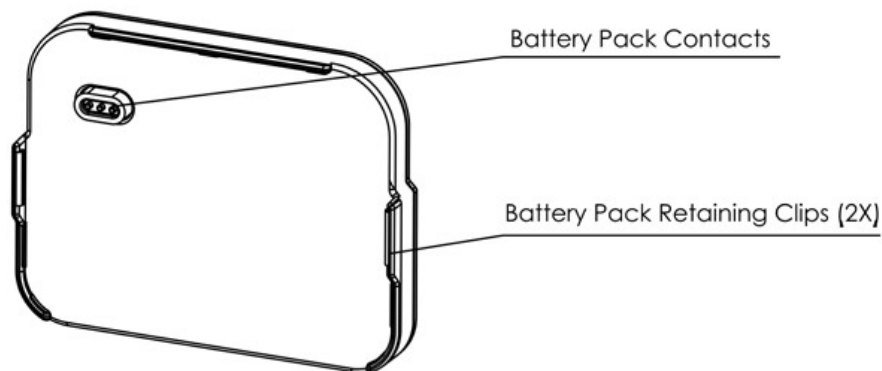
Power and Charging

NOTICE: MagTek recommends charging AT LEAST every 6 months to maximize operation.

CAUTION: Failure to use MagTek cable with the Apple-supplied Adapter will VOID MagTek Limited Warranty.

iDynamo 6 only powers on when it is connected to an iOS host via its Lightning connector. Although the battery pack ships with a partial charge, MagTek recommend fully charging it before use (approximately 2 to 3 hours). To charge the battery pack, the iDynamo 6 must be connected to an iOS host via Lightning and a USB C cable must be plugged into the USB C receptacle located on the side of the iDynamo 6. If the iDynamo 6 is not connected to both, the battery will not accept a charge. To avoid possible damage to the host or the device, only use the USB power adapter designed for the host you are using and the cable included with iDynamo 6. For iOS devices, use only chargers sold by or approved by Apple. If the solution design includes accepting contactless payments while iDynamo 6 is powered by a handheld host, (i.e. not powered through the USB C), the device must have the battery pack installed.

iDynamo 6 only uses the battery pack to power its onboard contactless reader and receives all other operating power from the connected host. To power the device ON or OFF using the host to send commands. Powered ON mode will respond with the General Status LEDs.

To maximize the battery pack's charge, follow guidelines:

Battery Pack Contacts

Battery Pack Retaining Clips (2X)

Do not discharge the battery pack to 0%. Full discharge shortens the battery life. When possible, plan to recharge the battery pack well before it is fully depleted. Store the battery pack at the lowest reasonable temperatures within the device's specified storage temperature range. Temperature is the most critical factor in extending battery life. Store the battery pack charged to less than 100% (40% is optimal). Remember, If the iDynamo 6 is not connected to both the iOS host and the USB C receptacle located on the side of the iDynamo 6, the battery will not accept a charge.

To install the battery pack:

1. Remove the battery pack contacts cover from the rear of iDynamo 6.
2. Check electrical contacts on iDynamo 6 and battery pack are clean.
3. Rotate battery pack contacts to align with the contacts on iDynamo 6.
4. Press the battery pack onto iDynamo 6 until you feel it click into place.

To remove the battery pack, use your thumb to apply pressure to the iDynamo 6 housing above one of the battery pack retaining clips, and use your finger to pull out on the retaining clip to release.

Use and Compliance

Commands

iDynamo 6 is designed to be connected to a host which sends commands and data to, and receives data from, the device. iDynamo 6 with Lightning can receive a limited set of commands via the USB C receptacle in addition to the Lightning connector, even when the device is set to use the Lightning connector as its primary host interface.

How to connect to iOS Host
iDynamo 6 connects to an iOS-based host via the Lightning plug.
How to Connect to iOS Host Using the Lightning Plug

1. Power on the iOS host.
2. Plug iDynamo 6 into the host's Lightning connector.
3. After a few seconds, the iOS host will pop up an App Not Installed window. Press the App Store button to open the App Store and browse through the list of all compatible apps.
4. Install and configure the host software you intend to use.
5. Make sure the host software is configured to look for the device on the proper connection type.
6. Check host software for device look-up configuration.
7. Check the host software is configured to interpret incoming data.
8. Use the host software or the MagTek Test app to test swiping, inserting, and tapping a card.

How to Disconnect iDynamo 6 from iOS host

1. Close or disconnect all installed apps that use iDynamo 6.
2. Turn off the host's display to avoid launching or interacting with apps.
3. Disconnect the cable from the USB C receptacle if one is connected.
4. Carefully disconnect iDynamo 6 by pulling it straight out from the host's Lightning connector.

LEDs

- Off-Off: The device is not connected to a host and is not receiving power.
- Green-Solid: The device is receiving power from the host and is ready for the host software to connect, and the battery pack is not charging and its charge level is good.
- Amber-Solid: The battery pack is not charging, and its charge level is fair.
  Charge when possible.
- Red-Solid: The battery pack is not charging, and its charge level is low.
  Charge immediately.
- Red-Slow blink: The battery pack is charging, and its charge level is low.
  Continue charging.
- Amber-Slow blink: The battery pack is charging, and its charge level is fair.
  Continue charging if possible.
- Green-Slow blink: The battery pack is charging, and its charge level is high.
  Continue charging if desired.
- Green-Fast flash: A cardholder's card is currently swiping in the card path or has just exited the card path but has not yet been completely decoded by the device.
- Green-Solid on 2 seconds: The device has successfully read a swiped card.
- Red-Solid on 2 seconds: The device could not read a swiped card.
- Blue-Solid: The host is loading firmware onto the device.

Auditory Feedback

iDynamo 6's beeper provides feedback to operators and cardholders about the internal state of the device: The

device sounds one short beep after it has successfully read a contactless tap, and the cardholder can safely remove the card or device from the contactless landing zone. The device sounds two beeps when an operator cancels a pending EMV transaction.

Accepting Payments

If the solution design includes accepting contactless payments while iDynamo 6 is powered by a hand-held host, the device must have the battery pack installed. iDynamo 6 only uses the battery pack to power its onboard contactless reader and receives all other operating power from the connected host.

How to Swipe Magnetic Stripe Cards
Cardholders should swipe magnetic stripe cards in the MSR swipe path with the magnetic stripe facing away from the cardholder and into the device. Cardholders may swipe in either direction along the path.

How to Insert Contact Chip Cards
Cardholders should insert chip cards into the chip card slot with the chip facing the cardholder and toward the slot.

How to Tap Contactless Cards / Devices
If the cardholder is using an electronic payment device, such as a smartphone, make sure the payment device has NFC turned ON and has a payment app configured to process transactions. Wait until the host software indicates it is ready for a tap.
Tap the card or electronic payment device on the contactless landing zone, indicated by the EMVCo Contactless Indicator on the device's face. The card or device must be centered over the contactless landing zone. Wait for the device to beep. The host software may also display progress showing whether the tap succeeded or failed. Because each smartphone model may have its NFC antenna placed differently, the ideal tap position may vary by make and model. For example, Samsung users may need to center the phone on the contactless landing zone, while iPhone users may need to tap the top of the phone on the contactless landing zone. Remove the card or electronic payment device from the contactless landing zone.

Compliance

FCC INFORMATION

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 into 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.

Caution: Changes or modifications not expressly approved by MagTek could void the user's authority to operate this equipment.

CE STANDARDS

Testing for compliance with CE requirements was performed by an independent laboratory. The unit under test was found compliant with standards established for Class B devices.

UL/CSA

This product is recognized per UL 60950 1, 2nd Edition, 2011 12 19 (Information Technology Equipment – Safety – Part 1: General Requirements), CSA

C22.2 No. 60950 1 07, 2nd Edition, 2011 12 (Information Technology Equipment – Safety – Part 1: General Requirements).

ROHS STATEMENT

When ordered as RoHS compliant, this product meets the Electrical and Electronic Equipment (EEE) Reduction of Hazardous Substances (RoHS) European Directive 2002/95/EC. The marking is clearly recognizable, either as

written words like "Pb-free," "lead-free," or as another clear symbol ().

Legal

"Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iiPhone or iPad respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.

iPhone and iPad not included.

Please note that the use of this accessory with an Apple product may affect wireless performance.

Apple®, Apple Pay®, OS X®, iPhone®, iPad®, iPad Air®, iPad Pro®, Lightning®, and Mac® are trademarks of Apple Inc., registered in the U.S. and other countries. EMV® is a registered trademark in the U.S. and other countries and an unregistered trademark elsewhere. The EMV trademark is owned by EMVCo, LLC. The Contactless Indicator mark, consisting of four graduating arcs, is a trademark owned by and used with permission of EMVCo, LLC.

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EMV® is a registered trademark in the U.S. and other countries and an unregistered trademark elsewhere. The EMV trademark is owned by EMVCo, LLC. The Contactless Indicator mark, consisting of four graduating arcs, is a trademark owned by and used with permission of EMVCo, LLC.

Documents / Resources

MAGTEK iDynamo 6 Mobile Secure Card Reader Authenticator [pdf] Installation Guide
Secure Card Reader Authenticator, iDynamo 6, Mobile Secure Card Reader Authenticator, Lightning Connector for iOS

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