

Quick Installation Guide

Setup and Installation

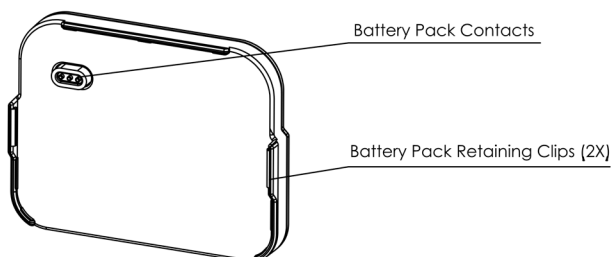
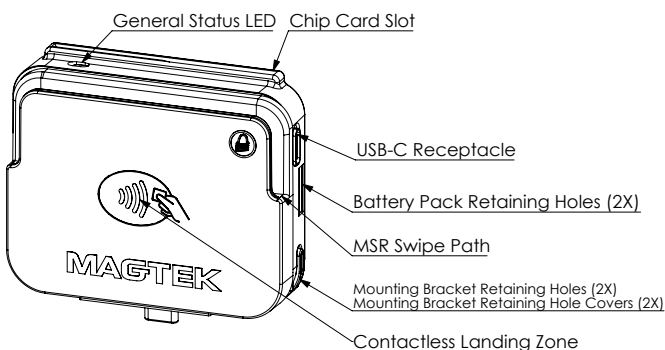
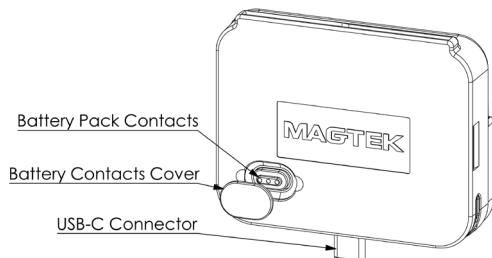
iDynamo 6 Overview

iDynamo 6 is a SCRA with magnetic stripe, EMV contact, and EMV / NFC contactless reading capabilities. Contactless and NFC reading requires connection to and power from a fully-powered USB 3.0 port, or the optional rechargeable battery pack. If the battery pack is not installed and the host does not provide fully powered USB C, then the contactless antenna will not turn on and iDynamo 6 will only read magnetic stripe and EMV contact cards.



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

Major Components



Power and Charging

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

iDynamo 6 USB C only powers on when it is connected to a host via the host USB C connector. Once iDynamo 6 USB C is connected to the host, powered ON mode will respond with the General Status LEDs. iDynamo 6 USB C uses the battery pack to power its on-board contactless reader. Although the battery pack ships with a partial charge, MagTek recommends fully charging it before use (approximately 2 to 3 hours). To charge the battery pack, the iDynamo 6 USB C must be connected via the USB C receptacle located on the side of the iDynamo 6. To avoid possible damage to the host or the device, only use the USB power adapter designed for the host you are using along with the cable included with iDynamo 6. After iDynamo 6 USB C is charged, the General Status LEDs will become active.

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

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).

To install the battery pack:

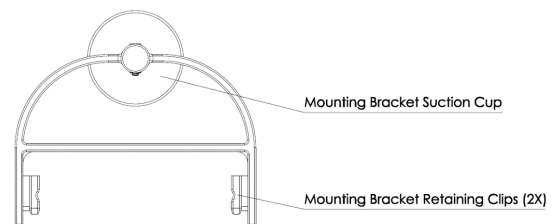
1. Remove the battery pack contacts cover from the rear of iDynamo 6.
 2. Check electrical contacts on iDynamo 6 and battery pack are clean.
 3. Rotate battery pack contacts to align with the contacts on iDynamo 6.
 4. Press the battery pack onto iDynamo 6 until you feel it click into place.
- To remove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

Mounting Bracket

The versatile optional mounting bracket included with the device can be used to enhance mechanical stability with many types of hosts including iOS, Windows, and Android operating systems. 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.



Use and Compliance

How to Use USB C for Pass-through Charging

1. Disconnect iDynamo 6 from the host.
2. Verify the charging power source works properly without iDynamo 6 by connecting the host directly to the power source using the host's original cable: The power source must be a USB charger sold or approved by the host's manufacturer.
3. Make sure the host charges correctly.
4. Disconnect the charging cable from the host and charger.
5. Connect iDynamo 6 to the host.
6. Connect the charging cable included with iDynamo 6 to the charger.
7. Connect the other end of the cable to iDynamo 6's USB C receptacle.

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 USB C can receive a limited set of commands via the USB C receptacle in addition to the USB C connector, even when the device is set to use the USB C connector as its primary host interface.

How to connect to USB host

How to connect to Android Type-C host

iDynamo 6 USB C connects to an Android-based host via the USB C plug.

1. Power on the Android host.
2. Plug iDynamo 6 USB C into the host's USB C connector.
3. Install and configure the host app you intend to use.
4. Make sure the host app is configured to look for the device on the proper connection type.
5. Use the host app or the MagTek Test app to test swiping, inserting, and tapping a card.

How to Disconnect iDynamo 6 USB C from Android host

1. Close or disconnect all installed apps that use iDynamo 6 USB C.
2. Turn off the host's display to avoid launching or interacting with apps.
3. Carefully disconnect iDynamo 6 USB C by pulling it straight out from the host's USB C connector. Do not twist connection.

LEDs

- Off-Off: The device is not connected to a host and is not receiving power.
- Green-Solid: 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: Battery pack is not charging, and its charge level is fair. Charge when possible.
- Red-Solid: Battery pack is not charging, and its charge level is low. Charge immediately.
- Red-Slow blink: Battery pack is charging, and its charge level is low. Continue charging.
- Amber-Slow blink: Battery pack is charging, and its charge level is fair. Continue charging if possible.
- Green-Slow blink: 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: Device has successfully read a swiped card.
- Red-Solid on 2 seconds: Device could not read a swiped card.
- Blue-Solid: 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 on-board 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 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.